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ENCLOSURES

ENCLOSURES SECTION

ENCLOSURES FOR HARSH & HAZARDOUS ENVIRONMENTS



SJIC & SJICH Series



EXBLTP



USF Series



GR Series



HKBX Series

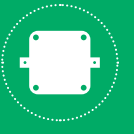


EXB Series



GEB Series





USF ENCLOSURES ONLY

TECHNE-TERM[®]



USF Series



USF-JB

Empty Enclosure

NEC / CEC Certifications

**Class II, Div. 1 & 2, Groups E, F, & G
Class III**

**Ex tb / Zone 21 AEx tb,
IIIC T80°C/T100°C/T130°C Db**

Type 3, 4, 4X IP66

Ta=-50°C to +90°C

Certificate 70013827



ATEX / IEC Ex Certificate



II 2 G D 2813

Ex e IIC Gb

Ex tb IIIC Db IP66

Service Temperature -55°C to +135°C

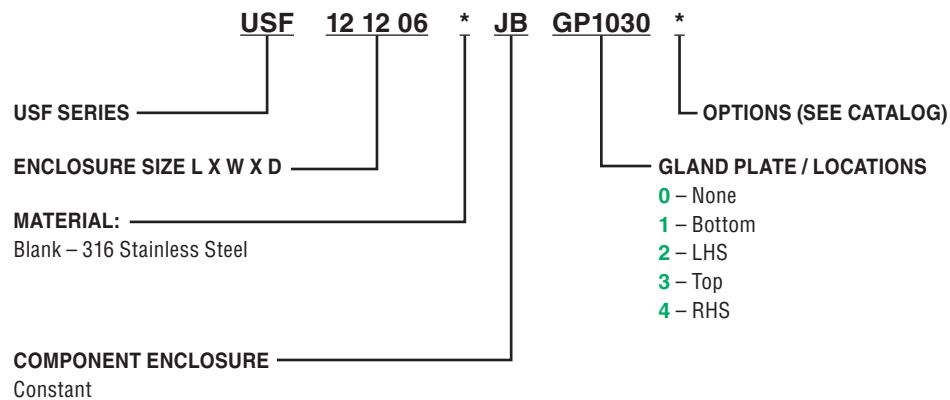
Sira 14ATEX3156U

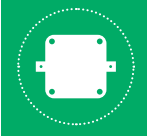
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FEATURES-SPECIFICATIONS

**USF Enclosures Features –
38 Sizes**

- Externally sloped top flange directs water, melting ice/snow and dust build-up away from the opening side of the door
- Continuous robot welded seams for a hose down tight seal
- Concealed hinges with removable hinge pins
- Doors are interchangeable and easily removable
- Ground/earthing studs in both cover and through wall of the box
- Quarter-turn 316 stainless steel latch
- One-piece, high temperature, closed cell silicone gasket with superior recovery and re-sealing properties
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings
- Bi-directional, movable mounting lugs for the widest flexibility during installations
- Openings for cable gland conduit can be factory or field installed. Gland plates available for all configurations.





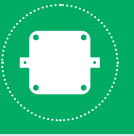
ENCLOSURES
USF SERIES

USF SLOPE FLANGE ENCLOSURE



CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"G"	"H"	"A" GLAND PLATE	"B" GLAND PLATE	"C" GLAND PLATE	WEIGHT LBS (KG)
USF121206-JB	12 (305)	12 (305)	6 (153)	10.69 (272)	10.69 (272)	13.63 (346)	13.63 (346)	4.06 (103)	9.38 (238)	9.63 (245)	14 (6.3)
USF161206-JB	16 (407)	12 (305)	6 (153)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	4.06 (103)	13.38 (340)	9.63 (245)	20 (9.1)
USF161208-JB	16 (407)	12 (305)	8 (203)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	6.06 (154)	13.38 (340)	9.63 (245)	22 (10)
USF161210-JB	16 (407)	12 (305)	10 (254)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	8.06 (205)	13.38 (340)	9.63 (245)	24 (10.9)
USF161606-JB	16 (407)	16 (407)	6 (153)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	4.06 (103)	13.38 (340)	13.38 (340)	26 (11.8)
USF161608-JB	16 (407)	16 (407)	8 (203)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	6.06 (154)	13.38 (340)	13.38 (340)	27 (12.2)
USF161610-JB	16 (407)	16 (407)	10 (254)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	8.06 (205)	13.38 (340)	13.38 (340)	29 (13.2)
USF201606-JB	20 (508)	16 (407)	6 (153)	18.69 (475)	14.69 (373)	21.63 (549)	17.63 (448)	4.06 (103)	17.38 (441)	13.38 (340)	29 (13.2)
USF201608-JB	20 (508)	16 (407)	8 (203)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	6.06 (154)	17.38 (441)	13.38 (340)	31 (14)
USF201610-JB	20 (508)	16 (407)	10 (254)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	8.06 (205)	17.38 (441)	13.38 (340)	32 (14.5)
USF202006-JB	20 (508)	20 (508)	6 (153)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	4.06 (103)	17.38 (441)	17.38 (441)	35 (15.9)
USF202008-JB	20 (508)	20 (508)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	6.06 (154)	17.38 (441)	17.38 (441)	37 (16.8)
USF202010-JB	20 (508)	20 (508)	10 (254)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	8.06 (205)	17.38 (441)	17.38 (441)	39 (17.7)
USF202012-JB	20 (508)	20 (508)	12 (305)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	10.06 (255)	17.38 (441)	17.38 (441)	44 (20)
USF241606-JB	24 (610)	16 (407)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	4.06 (103)	21.38 (543)	13.38 (340)	35 (15.9)
USF241608-JB	24 (610)	16 (407)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	6.06 (154)	21.38 (543)	13.38 (340)	36 (16.3)
USF241610-JB	24 (610)	16 (407)	10 (254)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	8.06 (205)	21.38 (543)	13.38 (340)	38 (17.2)
USF242006-JB	24 (610)	20 (508)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	4.06 (103)	21.38 (543)	17.38 (441)	42 (19)
USF242008-JB	24 (610)	20 (508)	8 (203)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	6.06 (154)	21.38 (543)	17.38 (441)	43 (19.5)
USF242010-JB	24 (610)	20 (508)	10 (254)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	8.06 (205)	21.38 (543)	17.38 (441)	44 (20)
USF242012-JB	24 (610)	20 (508)	12 (305)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	10.06 (255)	21.38 (543)	17.38 (441)	46 (20.9)
USF242406-JB	24 (610)	24 (610)	6 (153)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	4.06 (103)	21.38 (543)	21.38 (543)	49 (22.2)
USF242408-JB	24 (610)	24 (610)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	6.06 (154)	21.38 (543)	21.38 (543)	53 (24)
USF242410-JB	24 (610)	24 (610)	10 (254)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	8.06 (205)	21.38 (543)	21.38 (543)	58 (26.3)
USF242412-JB	24 (610)	24 (610)	12 (305)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	10.06 (255)	21.38 (543)	21.38 (543)	62 (28.1)
USF242416-JB	24 (610)	24 (610)	16 (407)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	14.06 (357)	21.38 (543)	21.38 (543)	71 (32.2)
USF242420-JB	24 (610)	24 (610)	20 (508)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	18.06 (458)	21.38 (543)	21.38 (543)	78 (35.4)
USF302008-JB	30 (762)	20 (508)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	6.06 (154)	26.00 (660)	17.38 (441)	59 (26.8)
USF302010-JB	30 (762)	20 (508)	10 (254)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)	8.06 (205)	26.00 (660)	17.38 (441)	61 (27.7)
USF302408-JB	30 (762)	24 (610)	8 (203)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)	6.06 (154)	26.00 (660)	21.38 (543)	56 (25.4)
USF302410-JB	30 (762)	24 (610)	10 (254)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	8.06 (205)	26.00 (660)	21.38 (543)	63 (28.6)
USF302412-JB	30 (762)	24 (610)	12 (305)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	10.06 (255)	26.00 (660)	21.38 (543)	64 (29)
USF302420-JB	30 (762)	24 (610)	20 (508)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	18.06 (458)	26.00 (660)	21.38 (543)	99 (45)
USF303008-JB	30 (762)	30 (762)	8 (203)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	6.06 (154)	26.00 (660)	26.00 (660)	68 (30.8)
USF303010-JB	30 (762)	30 (762)	10 (254)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)	8.06 (205)	26.00 (660)	26.00 (660)	72 (32.7)
USF303012-JB	30 (762)	30 (762)	12 (305)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)	10.06 (255)	26.00 (660)	26.00 (660)	89 (40.4)
USF362408-JB	36 (915)	24 (610)	8 (203)	34.69 (881)	28.69 (729)	37.63 (956)	31.63 (803)	6.06 (154)	33.00 (838)	21.38 (543)	66 (30)
USF362410-JB	36 (915)	24 (610)	10 (254)	9.79 (249)	35.20 (894)	8.15 (207)	27.63 (702)	8.06 (205)	33.00 (838)	21.38 (543)	70 (31.8)

All dimension in. (mm)

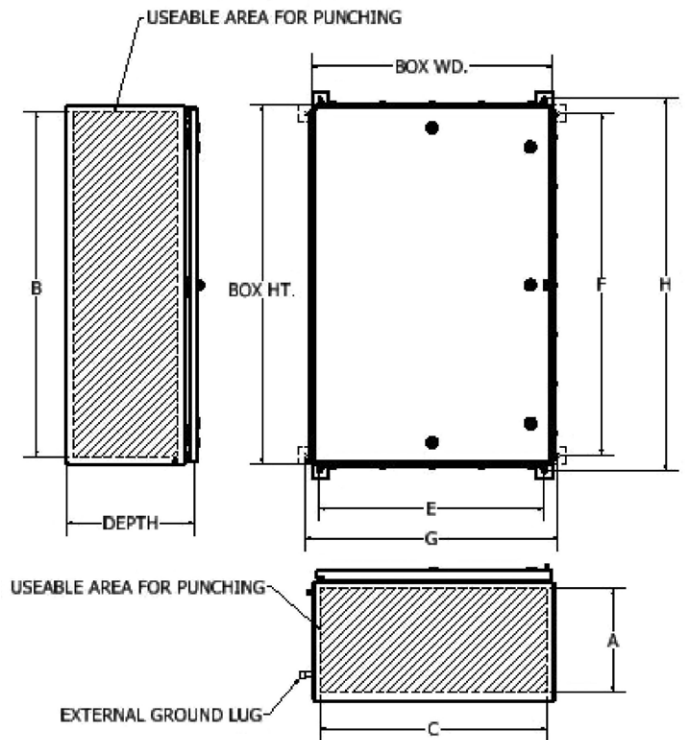


USF SLOPE FLANGE ENCLOSURE

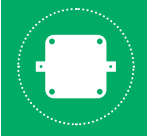


CATALOG NUMBER	"A" BLANK WALL AREA	"B" BLANK WALL AREA	"C" BLANK WALL AREA	(W) MAX. POWER
USF121206-JB	5.74 (146)	10.93 (277)	10.93 (277)	15.0
USF161206-JB	5.74 (146)	14.93 (379)	10.93 (277)	17.0
USF161208-JB	7.74 (196)	14.93 (379)	10.93 (277)	20.6
USF161210-JB	9.74 (247)	14.93 (379)	10.93 (277)	23.5
USF161606-JB	5.74 (146)	14.93 (379)	14.93 (379)	19.0
USF161608-JB	7.74 (196)	14.93 (379)	14.93 (379)	20.0
USF161610-JB	9.74 (247)	14.93 (379)	14.93 (379)	25.0
USF201606-JB	5.74 (146)	18.93 (480)	14.93 (379)	21.0
USF201608-JB	7.74 (196)	18.93 (480)	14.93 (379)	23.0
USF201610-JB	9.74 (247)	18.93 (480)	14.93 (379)	26.0
USF202006-JB	5.74 (146)	18.93 (480)	18.93 (480)	24.3
USF202008-JB	7.74 (196)	18.93 (480)	18.93 (480)	26.0
USF202010-JB	9.74 (247)	18.93 (480)	18.93 (480)	30.0
USF202012-JB	11.74 (298)	18.93 (480)	18.93 (480)	36.0
USF241606-JB	5.74 (146)	22.93 (582)	14.93 (379)	35.0
USF241608-JB	7.74 (196)	22.93 (582)	14.93 (379)	36.0
USF241610-JB	9.74 (247)	22.93 (582)	14.93 (379)	31.0
USF242006-JB	5.74 (146)	22.93 (582)	18.93 (480)	24.5
USF242008-JB	7.74 (196)	22.93 (582)	18.93 (480)	31.5
USF242010-JB	9.74 (247)	22.93 (582)	18.93 (480)	33.6
USF242012-JB	11.74 (298)	22.93 (582)	18.93 (480)	36.0
USF242406-JB	5.74 (146)	22.93 (582)	22.93 (582)	25.8
USF242408-JB	7.74 (196)	22.93 (582)	22.93 (582)	34.0
USF242410-JB	9.74 (247)	22.93 (582)	22.93 (582)	34.0
USF242412-JB	11.74 (298)	22.93 (582)	22.93 (582)	38.0
USF242416-JB	15.74 (400)	22.93 (582)	22.93 (582)	42.0
USF242420-JB	19.74 (501)	22.93 (582)	22.93 (582)	57.3
USF302008-JB	7.74 (196)	28.93 (735)	18.93 (480)	36.5
USF302010-JB	9.74 (247)	28.93 (735)	18.93 (480)	36.0
USF302408-JB	7.74 (196)	28.93 (735)	22.93 (582)	39.0
USF302410-JB	9.74 (247)	28.93 (735)	22.93 (582)	38.0
USF302412-JB	11.74 (298)	28.93 (735)	22.93 (582)	40.0
USF302420-JB	19.74 (501)	28.93 (735)	22.93 (582)	57.3
USF303008-JB	7.74 (196)	28.93 (735)	28.93 (735)	43.0
USF303010-JB	9.74 (247)	28.93 (735)	28.93 (735)	40.0
USF303012-JB	11.74 (298)	28.93 (735)	28.93 (735)	46.0
USF362408-JB	7.74 (196)	34.93 (887)	22.93 (582)	44.0
USF362410-JB	9.74 (247)	34.93 (887)	22.93 (582)	40.0

All dimension in. (mm)



USF MAXIMUM CONDUIT / GLAND OPENINGS					
W/O GLAND PLATE			W/ GLAND PLATE		
BOX DEPTH	MAX NPT	MAX METRIC	BOX DEPTH	MAX NPT	MAX METRIC
6	3-1/2"	M100	6	2-1/2"	M75
8	4"	M100	8	4"	M100
10	4"	M100	10	4"	M100
12	4"	M100	12	4"	M100
16	4"	M100	16	4"	M100
20	4"	M100	20	4"	M100



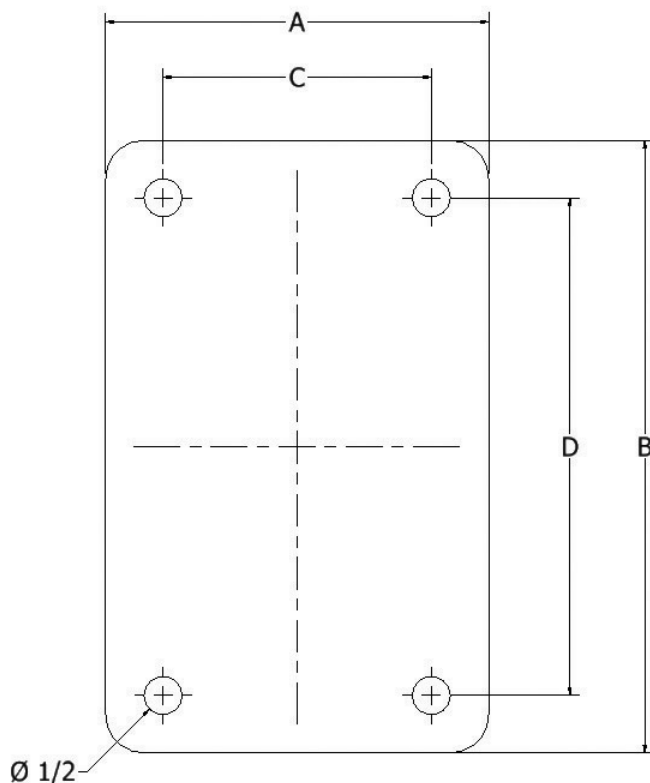
ENCLOSURES
USF SERIES

USF SLOPE FLANGE ENCLOSURES



USF SERIES INTERNAL MOUNTING PAN					
CATALOG NO.	A	B	C	D	THICKNESS
USF1212P	9.00 (229)	9.00 (229)	7.25 (184)	7.25 (184)	.13 (3.3)
USF1612P	9.00 (229)	13.00 (330)	7.25 (184)	11.25 (286)	.13 (3.3)
USF1616P	13.00 (330)	13.00 (330)	11.25 (286)	11.25 (286)	.13 (3.3)
USF2016P	13.00 (330)	17.00 (432)	11.25 (286)	15.25 (387)	.13 (3.3)
USF2020P	17.00 (432)	17.00 (432)	15.25 (387)	15.25 (387)	.13 (3.3)
USF2416P	13.00 (330)	21.00 (533)	11.25 (286)	19.25 (489)	.13 (3.3)
USF2420P	17.00 (432)	21.00 (533)	15.25 (387)	19.25 (489)	.13 (3.3)
USF2424P	21.00 (533)	21.00 (533)	19.25 (489)	19.25 (489)	.13 (3.3)
USF3020P	17.00 (432)	25.63 (651)	15.25 (387)	23.88 (606)	.13 (3.3)
USF3024P	21.00 (533)	25.63 (651)	19.25 (489)	23.88 (606)	.13 (3.3)
USF3030P	25.63 (651)	25.63 (651)	23.88 (606)	23.88 (606)	.13 (3.3)
USF3624P	21.00 (533)	32.63 (829)	19.25 (489)	30.88 (784)	.19 (4.8)

All dimension in. (mm)

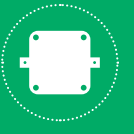


Internal mounting pans are made from high strength aluminum alloy. The aluminum alloy is corrosion resistant and can be drilled and tapped in the field for ease of installation of components.

Pans come standard with mounting hardware.

SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP66 Drain and breather installed.
SU10-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP66 Drain only installed.
DC	Document Wallet (enclosures 10 x 10 and larger only)
SU9	Special paint finish
SU14	Fungus proofing of enclosures

See enclosure modification page for conduit / gland hole sizes and spacing.



SJIC ENCLOSURES ONLY • SCREW COVER

TECHNE-TERM[®]



SJIC Series



SJIC-JB

Empty Enclosure

NEC / CEC Certifications

Class II, Div. 1 & 2, Groups E, F, & G
Class III

Ex tb / Zone 21 AEx tb, IIIC T80°C/
T100°C/T130°C Db

Type 3, 4, 4X IP66

Ta=-50°C to +90°C



Certificate 70013827



ATEX / IEC Ex Certificate

II 2 G D 2813

Ex e IIC Gb

Ex tb IIIC Db IP66

Service Temperature -55°C to +135°C

Sira 14ATEX3156U

IECEX SIR 14.0053U

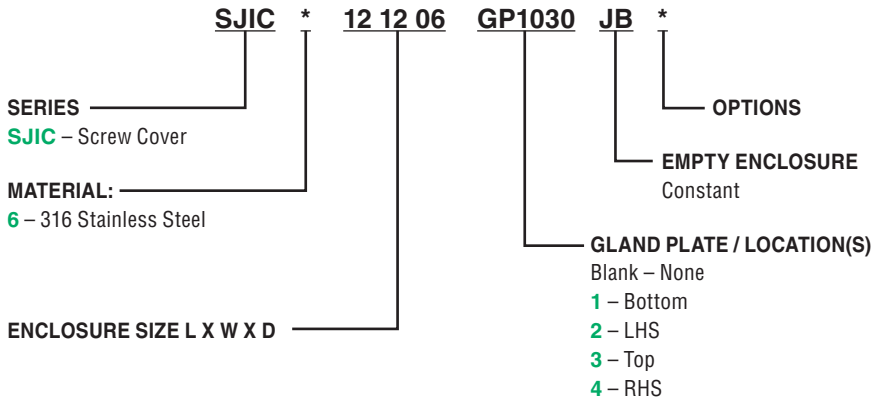
FEATURES-SPECIFICATIONS

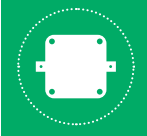
SJIC Enclosures Features – 15 Sizes

- 316 stainless steel cover screws
- Continuous robot welded seams for a hose down tight seal
- SJIC doors are interchangeable and easily removable

- Ground/earthing studs in both cover and through wall of the box
- One-piece, high temperature, closed cell silicone gasket with superior recovery and re-sealing properties
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings

- Welded, one-piece mounting flanges on top and bottom for strength
- Openings for cable glands conduit can be factory or field installed. Gland plates available for all configurations.





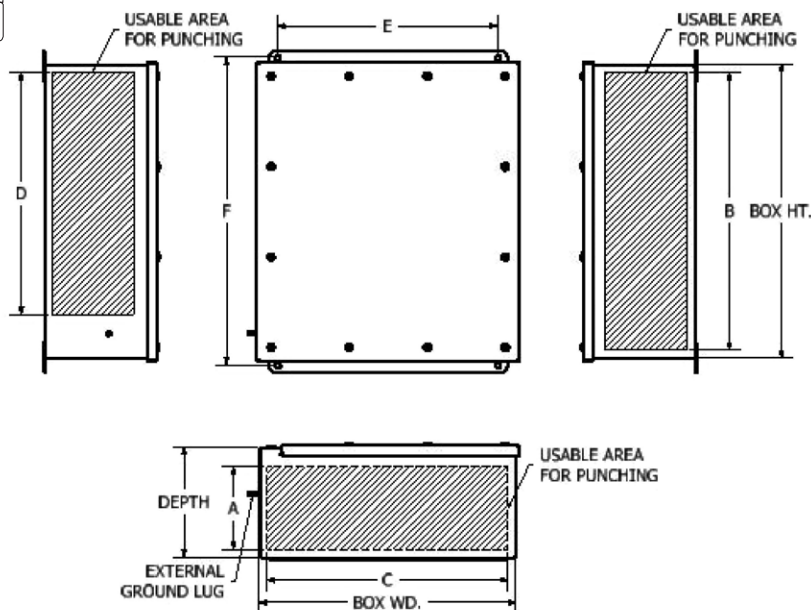
ENCLOSURES SJIC SERIES

SJIC ENCLOSURES ONLY

TECHNE-TERM[®]

SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP 66 Drain and breather installed.
SU10-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP 66 Drain only installed.
DC	Document Wallet (enclosures 10 x 10 and larger only)
SU9	Special paint finish
SU14	Fungus proofing of enclosures

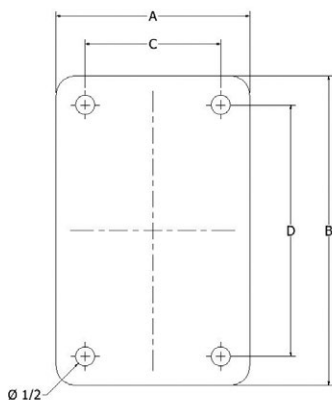
See enclosure modification page for conduit / gland hole sizes and spacing.



CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"A" BLANK WALL	"B" BLANK WALL	"C" BLANK WALL	"D" BLANK WALL	(W) MAX. POWER	WEIGHT LBS (KG)
SJIC6040404-JB	4 (102)	4 (102)	4 (102)	2.00 (51)	4.75 (121)	2.47(63)	3.13 (79)	3.13 (79)	1.19 (30)	4.1	2.83 (1.3)
SJIC6060404-JB	6 (152)	4 (102)	4 (102)	2.00 (51)	6.75 (171)	2.47(63)	5.13 (130)	3.13 (79)	3.19 (81)	5.2	3.6 (1.6)
SJIC6060604-JB	6 (152)	6 (152)	4 (102)	4.00 (102)	6.75 (171)	2.47(63)	5.13 (130)	5.13 (130)	3.19 (81)	6.1	4.9 (2.2)
SJIC6060606-JB	6 (152)	6 (152)	6 (152)	4.00 (102)	6.75 (171)	4.47 (114)	5.13 (130)	5.13 (130)	3.19 (81)	8.4	5.9 (2.7)
SJIC6080606-JB	8 (203)	6 (152)	6 (152)	4.00 (102)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	10.5	7.5 (3.4)
SJIC6080804-JB	8 (203)	8 (203)	4 (102)	6.00 (152)	8.75 (222)	2.47(63)	7.13 (181)	7.13 (181)	5.19 (132)	8.4	7.9 (3.6)
SJIC6080806-JB	8 (203)	8 (203)	6 (152)	6.00 (152)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	11.4	8.33 (3.8)
SJIC6100804-JB	10 (254)	8 (203)	4 (102)	6.00 (152)	10.75 (273)	2.47(63)	9.13 (232)	7.13 (181)	7.19 (183)	8.4	9.5 (4.4)
SJIC6100806-JB	10 (254)	8 (203)	6 (152)	6.00 (152)	10.75 (273)	4.47 (114)	9.13 (232)	7.13 (181)	7.19 (183)	12.2	10 (4.5)
SJIC6101006-JB	10 (254)	10 (254)	6 (152)	8.00 (203)	10.75 (273)	4.47 (114)	9.13 (232)	9.13 (232)	7.19 (183)	13	11 (5)
SJIC6121005-JB	12 (305)	10 (254)	5 (127)	8.00 (203)	12.75 (324)	3.47 (88)	11.13 (283)	9.13 (232)	9.19 (233)	8.4	12 (5.4)
SJIC6121006-JB	12 (305)	10 (254)	6 (152)	8.00 (203)	12.75 (324)	4.47 (114)	11.13 (283)	9.13 (232)	9.19 (233)	14	13 (5.9)
SJIC6121206-JB	12 (305)	12 (305)	6 (152)	10.00 (254)	12.75 (324)	4.47 (114)	11.13 (283)	11.13 (283)	9.19 (233)	15	15 (6.8)
SJIC6141206-JB	14 (356)	12 (305)	6 (152)	10.00 (254)	14.75 (375)	4.47 (114)	13.13 (334)	11.13 (283)	11.19 (284)	16	16 (7.3)
SJIC6161406-JB	16 (406)	14 (356)	6 (152)	12 (305)	16.75 (425)	4.47 (114)	15.13 (384)	13.13 (334)	13.19 (335)	18	20 (9)

SJIC(H) SERIES INTERNAL MOUNTING PAN					
CATALOG NO.	A	B	C	D	THICKNESS
SJIC1010P	7.63 (194)	7.63 (194)	7.00 (178)	7.00 (178)	.13 (3.2)
SJIC1210P	7.63 (194)	9.63 (244)	7.00 (178)	9.00 (228)	.13 (3.2)
SJIC1212P	9.63 (244)	9.63 (244)	9.00 (228)	9.00 (228)	.13 (3.2)
SJIC1412P	9.63 (244)	11.63 (295)	9.00 (228)	11.00 (279)	.13 (3.2)
SJIC1614P	11.63 (295)	13.63 (346)	11.00 (279)	13.00 (330)	.13 (3.2)

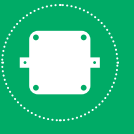
All dimension in. (mm)



Internal mounting pans are made from high strength aluminum alloy. The aluminum alloy is corrosion resistant and can be drill and tapped in the field for ease of installation of components.

Pans come standard with mounting hardware.

SJIC / SJICH MAXIMUM CONDUIT / GLAND OPENINGS					
W/O GLAND PLATE			W/ GLAND PLATE		
BOX DEPTH	MAX NPT	MAX METRIC	BOX DEPTH	MAX NPT	MAX METRIC
4	1"	M32	4	1/2"	M20
5	1-1/2"	M50	5	1-1/4"	M40
6	3"	M80	6	2"	M63



SJICH ENCLOSURES ONLY • HINGED SCREW COVER

TECHNETERM[®]



SJICH Series



SJICH-JB

Empty Enclosure

NEC / CEC Certifications

**Class II, Div. 1 & 2, Groups E, F, & G
Class III**

**Ex tb / Zone 21 AEx tb, IIIC T80°C/
T100°C/T130°C Db**

Type 3, 4, 4X IP66

Ta=-50°C to +90°C



Certificate 70013827

ATEX / IEC Ex Certificate



II 2 G D 2813

Ex e IIC Gb

Ex tb IIIC Db IP66

Service Temperature -55°C to +135°C

Sira 14ATEX3156U

IECEX SIR 14.0053U

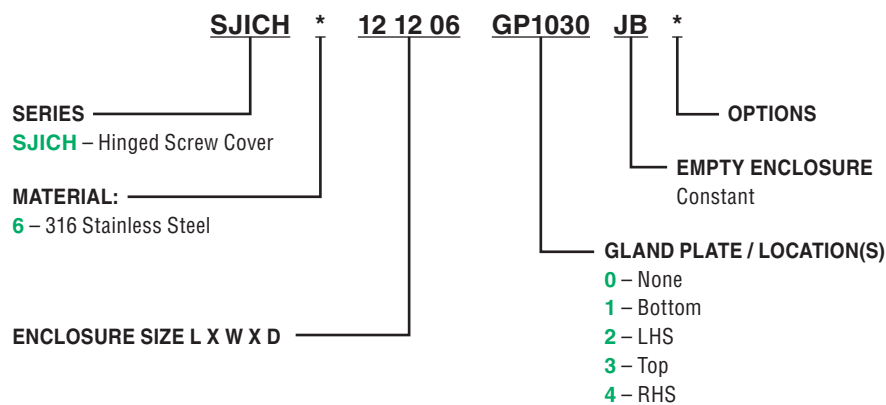
FEATURES-SPECIFICATIONS

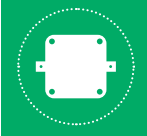
SJICH Enclosures Features – 11 Sizes

- 316 stainless steel cover screws
- Continuous robot welded seams for a hose down tight seal
- SJICH have continuous, one-piece hinge construction

- Ground/earthing studs in both cover and through wall of the box
- One-piece, high temperature, closed cell silicone gasket with superior recovery and re-sealing properties
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings

- Welded, one-piece mounting flanges on top and bottom for strength
- Openings for cable glands conduit can be factory or field installed. Gland plates available for all configurations.



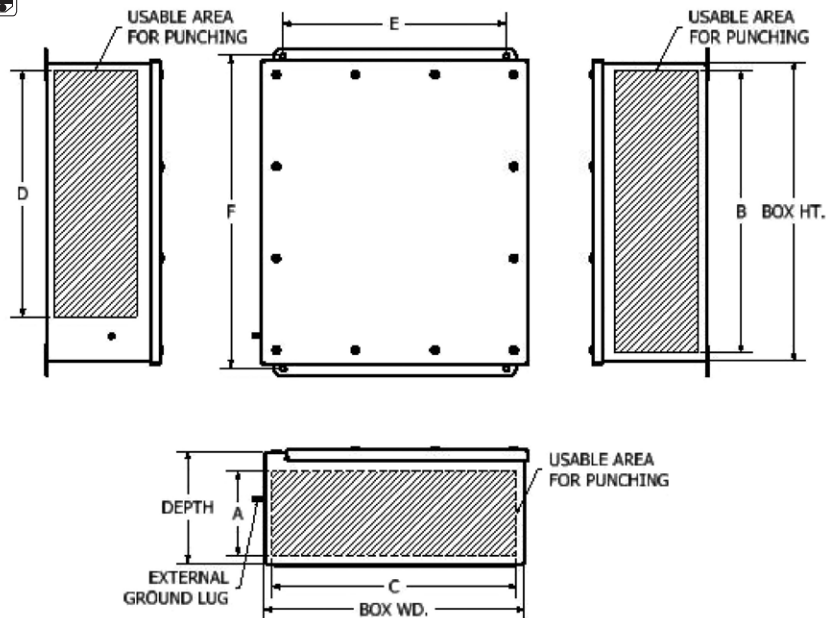


ENCLOSURES SJICH SERIES

SJICH ENCLOSURES ONLY

TECHNE-TERM[®]

SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP 66 Drain and breather installed.
SU10-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP66 Drain only installed.
DC	Document Wallet (enclosures 10 x 10 and larger only)
SU9	Special paint finish
SU14	Fungus proofing of enclosures

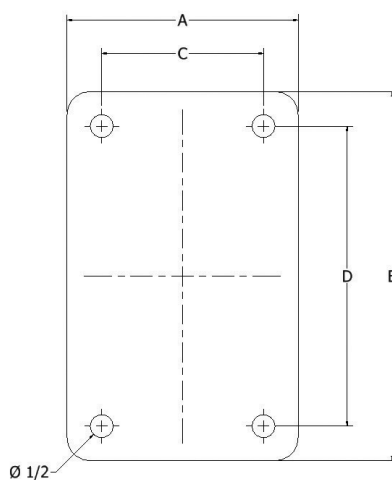


See enclosure modification page for conduit / gland hole sizes and spacing.

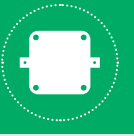
CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"A" BLANK WALL	"B" BLANK WALL	"C" BLANK WALL	"D" BLANK WALL	(W) MAX. POWER	WEIGHT LBS (KG)
SJICH6080606-JB	8 (203)	6 (152)	6 (152)	4.00 (102)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	10.5	7.5 (3.4)
SJICH6080804-JB	8 (203)	8 (203)	4 (102)	6.00 (152)	8.75 (222)	2.47(63)	7.13 (181)	7.13 (181)	5.19 (132)	8.4	7.9 (3.6)
SJICH6080806-JB	8 (203)	8 (203)	6 (152)	6.00 (152)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	11.4	8.33 (3.8)
SJICH6100804-JB	10 (254)	8 (203)	4 (102)	6.00 (152)	10.75 (273)	2.47(63)	9.13 (232)	7.13 (181)	7.19 (183)	8.4	9.5 (4.4)
SJICH6100806-JB	10 (254)	8 (203)	6 (152)	6.00 (152)	10.75 (273)	4.47 (114)	9.13 (232)	7.13 (181)	7.19 (183)	12.2	10 (4.5)
SJICH6101006-JB	10 (254)	10 (254)	6 (152)	8.00 (203)	10.75 (273)	4.47 (114)	9.13 (232)	9.13 (232)	7.19 (183)	13	11 (5)
SJICH6121005-JB	12 (305)	10 (254)	5 (127)	8.00 (203)	12.75 (324)	3.47 (88)	11.13 (283)	9.13 (232)	9.19 (233)	8.4	12 (5.4)
SJICH6121006-JB	12 (305)	10 (254)	6 (152)	8.00 (203)	12.75 (324)	4.47 (114)	11.13 (283)	9.13 (232)	9.19 (233)	14	13 (5.9)
SJICH6121206-JB	12 (305)	12 (305)	6 (152)	10.00 (254)	12.75 (324)	4.47 (114)	11.13 (283)	11.13 (283)	9.19 (233)	15	15 (6.8)
SJICH6141206-JB	14 (356)	12 (305)	6 (152)	10.00 (254)	14.75 (375)	4.47 (114)	13.13 (334)	11.13 (283)	11.19 (284)	16	16 (7.3)
SJICH6161406-JB	16 (406)	14 (356)	6 (152)	12 (305)	16.75 (425)	4.47 (114)	15.13 (384)	13.13 (334)	13.19 (335)	18	20 (9)

SJIC(H) SERIES INTERNAL MOUNTING PAN					
CATALOG NO.	A	B	C	D	THICKNESS
SJIC1010P	7.63 (194)	7.63 (194)	7.00 (178)	7.00 (178)	.13 (3.2)
SJIC1210P	7.63 (194)	9.63 (244)	7.00 (178)	9.00 (228)	.13 (3.2)
SJIC1212P	9.63 (244)	9.63 (244)	9.00 (228)	9.00 (228)	.13 (3.2)
SJIC1412P	9.63 (244)	11.63 (295)	9.00 (228)	11.00 (279)	.13 (3.2)
SJIC1614P	11.63 (295)	13.63 (346)	11.00 (279)	13.00 (330)	.13 (3.2)

All dimension in. (mm)
Internal mounting pans are made from high strength aluminum alloy. The aluminum alloy is corrosion resistant and can be drill and tapped in the field for ease of installation of components.
Pans come standard with mounting hardware.



SJIC / SJICH MAXIMUM CONDUIT / GLAND OPENINGS					
W/O GROUND PLATE			W/ GROUND PLATE		
BOX DEPTH	MAX NPT	MAX METRIC	BOX DEPTH	MAX NPT	MAX METRIC
4	1"	M32	4	1/2"	M20
5	1-1/2"	M50	5	1-1/4"	M40
6	3"	M80	6	2"	M63



USF / SJIC / SJICH ENCLOSURES



TABLE 1: Minimum distance from edge of box to the center of the conduit / cable entry.

NPT (METRIC)	4"	3-1/2"	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (MM)	2-3/4 (70)	2-1/2 (64)	2 (51)	2 (51)	1-5/8 (41)	1-3/8 (35)	1-1/4 (32)	1 (25)	7/8 (22)	3/4 (19)

TABLE 2 Minimum distance from edge of gland plate to the center of the conduit / cable entry.

NPT (METRIC)	4" (M100)	3-1/2" (M80)	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (MM)	3-1/4 (83)	3 (76)	2-3/4 (70)	2-1/2 (64)	2-1/8 (54)	1-7/8 (48)	1-3/4 (44)	1-1/2 (38)	1-3/8 (35)	1-1/4 (32)

TABLE 3: NEC / CEC minimum wire bending space from inside wall of the enclosure, North America applications only.

SIZE AWG (MM2)	16 (1.5)	14 (2.5)	12 (4)	10 (6)	8 (10)	6 (16)	4 (25)	2 (35)	1/0 (50)	2/0 (70)	3/0 (95)	4/0 (120)
IN. (MM)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	2 (51)	3 (76)	3.5 (89)	5.5 (140)	6 (152)	6.5 (164)	7 (178)

TABLE 4: Punched hole diameters. For additional sizes not shown please contact the factory.

NPT	4"	3-1/2"	3"	2-1/2"	2"	1-1/2"	1-1/4"	1"	3/4"	1/2"
MAX. HOLE DIA. IN. (MM)	4.53 (115.06)	4.03 (102.36)	3.53 (89.66)	2.905 (73.79)	2.405 (61.08)	1.93 (49.2)	1.69 (42.93)	1.345 (34.16)	1.08 (27.4)	.87 (22.09)
METRIC	M100	M80	M75	M63	M50	M40	M32	M25	M20	M16
MAX. HOLE DIA. MM (IN.)	100.7 (3.94)	80.7 (3.15)	75.7 (2.95)	63.7 (2.48)	50.7 (1.97)	40.7 (1.58)	32.7 (1.26)	25.7 (0.98)	20.7 (0.79)	16.7 (0.63)

TABLE 5: Minimum distance of the center line to center line of the conduit / cable entries.

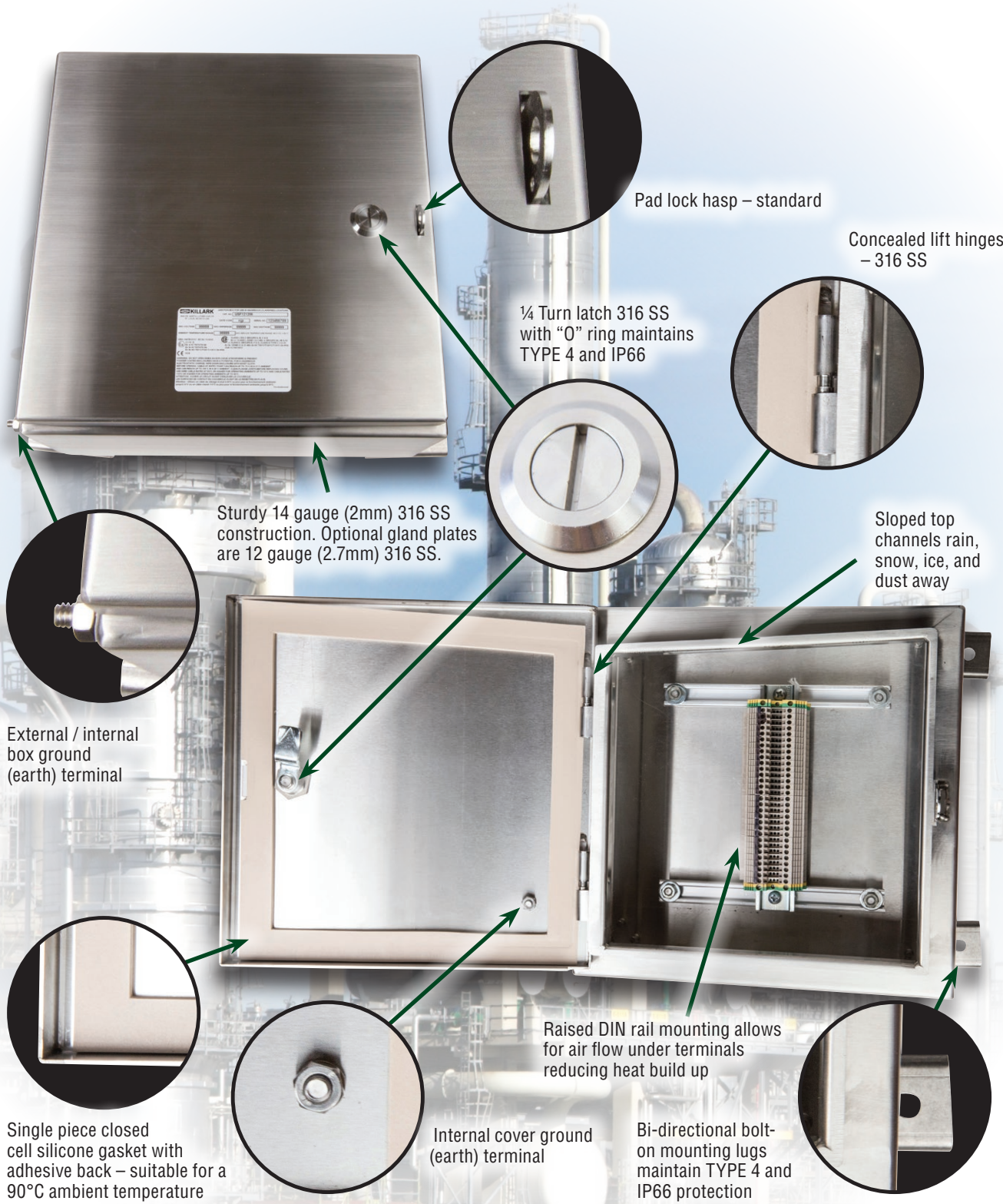
(NPT) [METRIC]	4 [M100]	3 1/2 [M80]	3 [M75]	2 1/2 [M63]	2 [M50]	1 1/2 [M40]	1 1/4 [M32]	1 [M25]	3/4 [M20]	1/2 [M16]
1/2 [M16]	3 5/8 [92mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 1/4 [58mm]	2 1/8 [54mm]	1 7/8 [48mm]	1 3/4 [45mm]	1 5/8 [41mm]
3/4 [M20]	3 3/4 [96mm]	3 1/2 [89mm]	3 1/4 [83mm]	2 7/8 [74mm]	2 5/8 [68mm]	2 3/8 [60mm]	2 1/4 [58mm]	2 [51mm]	1 7/8 [48mm]	
1 [M25]	3 7/8 [99mm]	3 5/8 [92mm]	3 3/8 [86mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 3/8 [60mm]	2 1/8 [54mm]		
1 1/4 [M32]	4 1/8 [105mm]	3 7/8 [99mm]	3 1/2 [89mm]	3 1/4 [83mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]			
1 1/2 [M40]	4 1/4 [108mm]	4 [102mm]	3 3/4 [96mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 7/8 [73mm]				
2 [M50]	4 3/4 [121mm]	4 1/2 [115mm]	4 [102mm]	3 5/8 [92mm]	3 3/8 [86mm]					
2 1/2 [M63]	4 7/8 [124mm]	4 5/8 [118mm]	4 1/4 [108mm]	3 7/8 [99mm]						
3 [M75]	5 1/4 [134mm]	5 [127mm]	4 5/8 [118mm]							
3 1/2 [M80]	5 3/4 [147mm]	5 1/2 [140mm]								
4 [M100]	6 1/4 [159mm]									

All dimension in. (mm)



ENCLOSURES
USF SERIES

TERMINAL BOXES FOR HARSH & HAZARDOUS ENVIRONMENTS



Pad lock hasp – standard

Concealed lift hinges – 316 SS

¼ Turn latch 316 SS with “O” ring maintains TYPE 4 and IP66

Sturdy 14 gauge (2mm) 316 SS construction. Optional gland plates are 12 gauge (2.7mm) 316 SS.

Sloped top channels rain, snow, ice, and dust away

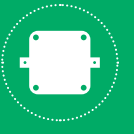
External / internal box ground (earth) terminal

Raised DIN rail mounting allows for air flow under terminals reducing heat build up

Single piece closed cell silicone gasket with adhesive back – suitable for a 90°C ambient temperature

Internal cover ground (earth) terminal

Bi-directional bolt-on mounting lugs maintain TYPE 4 and IP66 protection



USF TERMINAL BOXES

TECHNE-TERM[®]



USF Series



USF

Terminal Boxes

NEC / CEC Certifications

Class I, Div. 2 Groups A, B, C, & D
Ex eb / Class I Zone 1 AEx eb IIC Gb
Class II, Div. 1 & 2, Groups E, F, & G
Class III
Ex tb Zone 21 AEx tb, IIIC T80°C/
T100°C/T130°C Db
Type 3, 4, 4X IP66
Ta = -50°C to +40°C T6
Ta = -50°C to +55°C T5
Ta = -50°C to +90°C T4
Certificate 70013827



ATEX / IEC Ex Certificate



II 2 G D CE 2813
Ex eb IIC T6/T5/T4 Gb
Ex ib IIC T6/T5/T4 Gb
Ex tb IIIC T80°C/T100°C/T130°C
Db IP66
Ta = -50°C to +40°C
Ta = -50°C to +55°C
Ta = -50°C to +90°C
Service Temperature -55°C to +135°C
Sira 14ATEX3157
IECEx SIR 14.0055
IEEx 15.0155X



FEATURES-SPECIFICATIONS

USF Terminal Box Features – 38 Sizes

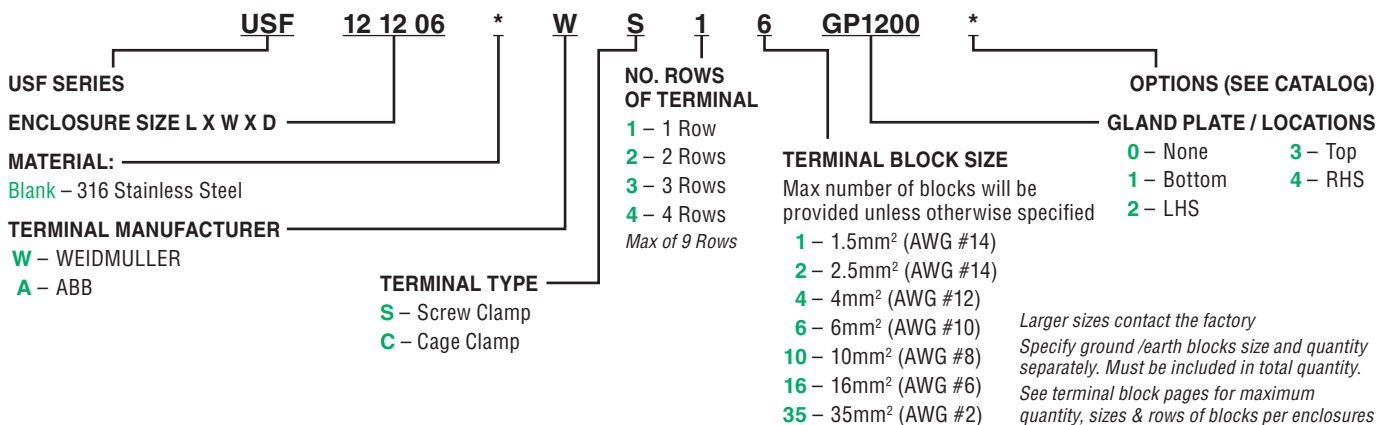
- Offered with ABB or Weidmuller terminal blocks in choice of screw terminal or cage (spring) clamp style with DIN rail mounted. Intrinsically safe terminals also available.
- Externally sloped top flange directs water, melting ice/snow and dust build-up away from the opening side of the door
- Continuous robot welded seams for a hose down tight seal
- Concealed hinges with removable hinge pins. Standard on left side.

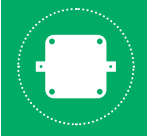
- Doors are interchangeable and easily removable
- Ground/earthing studs in both cover and through wall of the box
- Quarter-turn 316 stainless steel latch
- One-piece, high temperature, closed cell silicone gasket with superior recovery and re-sealing properties
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings

- Bi-directional, movable mounting lugs for the widest flexibility during installations
- Openings for cable glands conduit can be factory or field installed. Gland plates available for all configurations.

Materials

- 316 stainless steel as standard.
- Optional material 304 stainless steel, carbon steel or aluminum.
- All external hardware 316 stainless steel.
- Gasket – one-piece, high temperature closed cell silicone





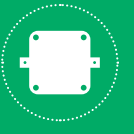
ENCLOSURES
USF SERIES

USF TERMINAL BOXES



CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"G"	"H"	"A" GLAND PLATE	"B" GLAND PLATE	"C" GLAND PLATE	WEIGHT LBS (KG)
USF121206	12 (305)	12 (305)	6 (153)	10.69 (272)	10.69 (272)	13.63 (346)	13.63 (346)	4.06 (103)	9.63 (245)	9.63 (245)	14 (6.3)
USF161206	16 (407)	12 (305)	6 (153)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	4.06 (103)	13.38 (340)	9.63 (245)	20 (9.1)
USF161208	16 (407)	12 (305)	8 (203)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	6.06 (154)	13.38 (340)	9.63 (245)	22 (10)
USF161210	16 (407)	12 (305)	10 (254)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)	8.06 (205)	13.38 (340)	9.63 (245)	24 (10.9)
USF161606	16 (407)	16 (407)	6 (153)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	4.06 (103)	13.38 (340)	13.38 (340)	26 (11.8)
USF161608	16 (407)	16 (407)	8 (203)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	6.06 (154)	13.38 (340)	13.38 (340)	27 (12.2)
USF161610	16 (407)	16 (407)	10 (254)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)	8.06 (205)	13.38 (340)	13.38 (340)	29 (13.2)
USF201606	20 (508)	16 (407)	6 (153)	18.69 (475)	14.69 (373)	21.63 (549)	17.63 (448)	4.06 (103)	17.38 (441)	13.38 (340)	29 (13.2)
USF201608	20 (508)	16 (407)	8 (203)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	6.06 (154)	17.38 (441)	13.38 (340)	31 (14)
USF201610	20 (508)	16 (407)	10 (254)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	8.06 (205)	17.38 (441)	13.38 (340)	32 (14.5)
USF202006	20 (508)	20 (508)	6 (153)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)	4.06 (103)	17.38 (441)	17.38 (441)	35 (15.9)
USF202008	20 (508)	20 (508)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	6.06 (154)	17.38 (441)	17.38 (441)	37 (16.8)
USF202010	20 (508)	20 (508)	10 (254)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	8.06 (205)	17.38 (441)	17.38 (441)	39 (17.7)
USF202012	20 (508)	20 (508)	12 (305)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	10.06 (255)	17.38 (441)	17.38 (441)	44 (20)
USF241606	24 (610)	16 (407)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	4.06 (103)	21.38 (543)	13.38 (340)	35 (15.9)
USF241608	24 (610)	16 (407)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)	6.06 (154)	21.38 (543)	13.38 (340)	36 (16.3)
USF241610	24 (610)	16 (407)	10 (254)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	8.06 (205)	21.38 (543)	13.38 (340)	38 (17.2)
USF242006	24 (610)	20 (508)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)	4.06 (103)	21.38 (543)	17.38 (441)	42 (19)
USF242008	24 (610)	20 (508)	8 (203)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	6.06 (154)	21.38 (543)	17.38 (441)	43 (19.5)
USF242010	24 (610)	20 (508)	10 (254)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	8.06 (205)	21.38 (543)	17.38 (441)	44 (20)
USF242012	24 (610)	20 (508)	12 (305)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	10.06 (255)	21.38 (543)	17.38 (441)	46 (20.9)
USF242406	24 (610)	24 (610)	6 (153)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)	4.06 (103)	21.38 (543)	21.38 (543)	49 (22.2)
USF242408	24 (610)	24 (610)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	6.06 (154)	21.38 (543)	21.38 (543)	53 (24)
USF242410	24 (610)	24 (610)	10 (254)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	8.06 (205)	21.38 (543)	21.38 (543)	58 (26.3)
USF242412	24 (610)	24 (610)	12 (305)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	10.06 (255)	21.38 (543)	21.38 (543)	62 (28.1)
USF242416	24 (610)	24 (610)	16 (407)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	14.06 (357)	21.38 (543)	21.38 (543)	71 (32.2)
USF242420	24 (610)	24 (610)	20 (508)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	18.06 (458)	21.38 (543)	21.38 (543)	78 (35.4)
USF302008	30 (762)	20 (508)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)	6.06 (154)	26.00 (660)	17.38 (441)	59 (26.8)
USF302010	30 (762)	20 (508)	10 (254)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)	8.06 (205)	26.00 (660)	17.38 (441)	61 (27.7)
USF302408	30 (762)	24 (610)	8 (203)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)	6.06 (154)	26.00 (660)	21.38 (543)	56 (25.4)
USF302410	30 (762)	24 (610)	10 (254)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	8.06 (205)	26.00 (660)	21.38 (543)	63 (28.6)
USF302412	30 (762)	24 (610)	12 (305)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	10.06 (255)	26.00 (660)	21.38 (543)	64 (29)
USF302420	30 (762)	24 (610)	20 (508)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	18.06 (458)	26.00 (660)	21.38 (543)	99 (45)
USF303008	30 (762)	30 (762)	8 (203)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)	6.06 (154)	26.00 (660)	26.00 (660)	68 (30.8)
USF303010	30 (762)	30 (762)	10 (254)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)	8.06 (205)	26.00 (660)	26.00 (660)	72 (32.7)
USF303012	30 (762)	30 (762)	12 (305)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)	10.06 (255)	26.00 (660)	26.00 (660)	89 (40.4)
USF362408	36 (915)	24 (610)	8 (203)	34.69 (881)	28.69 (729)	37.63 (956)	31.63 (803)	6.06 (154)	33.00 (838)	21.38 (543)	66 (30)
USF362410	36 (915)	24 (610)	10 (254)	9.79 (249)	35.20 (894)	8.15 (207)	27.63 (702)	8.06 (205)	33.00 (838)	21.38 (543)	70 (31.8)

All dimension in. (mm)



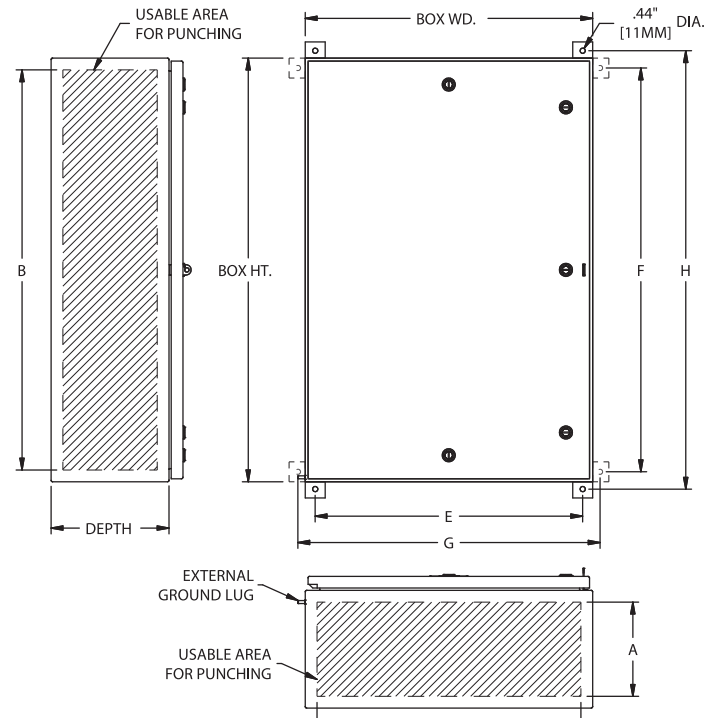
USF TERMINAL BOXES



CATALOG NUMBER	"A" BLANK WALL AREA	"B" BLANK WALL AREA	"C" BLANK WALL AREA	(W) MAX. POWER
USF121206	5.74 (146)	10.93 (277)	10.93 (277)	15.0
USF161206	5.74 (146)	14.93 (379)	10.93 (277)	17.0
USF161208	7.74 (196)	14.93 (379)	10.93 (277)	20.6
USF161210	9.74 (247)	14.93 (379)	10.93 (277)	23.5
USF161606	5.74 (146)	14.93 (379)	14.93 (379)	19.0
USF161608	7.74 (196)	14.93 (379)	14.93 (379)	20.0
USF161610	9.74 (247)	14.93 (379)	14.93 (379)	25.0
USF201606	5.74 (146)	18.93 (480)	14.93 (379)	21.0
USF201608	7.74 (196)	18.93 (480)	14.93 (379)	23.0
USF201610	9.74 (247)	18.93 (480)	14.93 (379)	26.0
USF202006	5.74 (146)	18.93 (480)	18.93 (480)	24.3
USF202008	7.74 (196)	18.93 (480)	18.93 (480)	26.0
USF202010	9.74 (247)	18.93 (480)	18.93 (480)	30.0
USF202012	11.74 (298)	18.93 (480)	18.93 (480)	36.0
USF241606	5.74 (146)	22.93 (582)	14.93 (379)	35.0
USF241608	7.74 (196)	22.93 (582)	14.93 (379)	36.0
USF241610	9.74 (247)	22.93 (582)	14.93 (379)	31.0
USF242006	5.74 (146)	22.93 (582)	18.93 (480)	24.5
USF242008	7.74 (196)	22.93 (582)	18.93 (480)	31.5
USF242010	9.74 (247)	22.93 (582)	18.93 (480)	33.6
USF242012	11.74 (298)	22.93 (582)	18.93 (480)	36.0
USF242406	5.74 (146)	22.93 (582)	22.93 (582)	25.8
USF242408	7.74 (196)	22.93 (582)	22.93 (582)	34.0
USF242410	9.74 (247)	22.93 (582)	22.93 (582)	34.0
USF242412	11.74 (298)	22.93 (582)	22.93 (582)	38.0
USF242416	15.74 (400)	22.93 (582)	22.93 (582)	42.0
USF242420	19.74 (501)	22.93 (582)	22.93 (582)	57.3
USF302008	7.74 (196)	28.93 (735)	18.93 (480)	36.5
USF302010	9.74 (247)	28.93 (735)	18.93 (480)	36.0
USF302408	7.74 (196)	28.93 (735)	22.93 (582)	39.0
USF302410	9.74 (247)	28.93 (735)	22.93 (582)	38.0
USF302412	11.74 (298)	28.93 (735)	22.93 (582)	40.0
USF302420	19.74 (501)	28.93 (735)	22.93 (582)	57.3
USF303008	7.74 (196)	28.93 (735)	28.93 (735)	43.0
USF303010	9.74 (247)	28.93 (735)	28.93 (735)	40.0
USF303012	11.74 (298)	28.93 (735)	28.93 (735)	46.0
USF362408	7.74 (196)	34.93 (887)	22.93 (582)	44.0
USF362410	9.74 (247)	34.93 (887)	22.93 (582)	40.0

All dimension in. (mm)

USF MAXIMUM CONDUIT / GLAND OPENINGS					
W/O GLAND PLATE			W/ GLAND PLATE		
BOX DEPTH	MAX NPT	MAX METRIC	BOX DEPTH	MAX NPT	MAX METRIC
6	3-1/2"	M100	6	2-1/2"	M75
8	4"	M100	8	4"	M100
10	4"	M100	10	4"	M100
12	4"	M100	12	4"	M100
16	4"	M100	16	4"	M100
20	4"	M100	20	4"	M100



Standard terminal offering

- ABB ZS Screw Clamp
- ABB ZK Cage (Spring) Clamp
- Weidmuller WD Screw Clamp
- Weidmuller ZD Cage (Spring) Clamp

Additional ABB and Weidmuller terminal blocks available. Contact the factory for more information.

Terminals are mounted on TS-35 DIN rail. The rails are mounted to raised collared studs or unistrut rails which adds additional air flow and wire room.

See terminal block pages for maximum quantity, sizes and rows of blocks per enclosures.

Specify ground / earth blocks size and quantity separately. Must be included in total quantity.

The USF terminal boxes are suitable for use with Wago, Phoenix and Klemsan Elektrik terminals.

Options

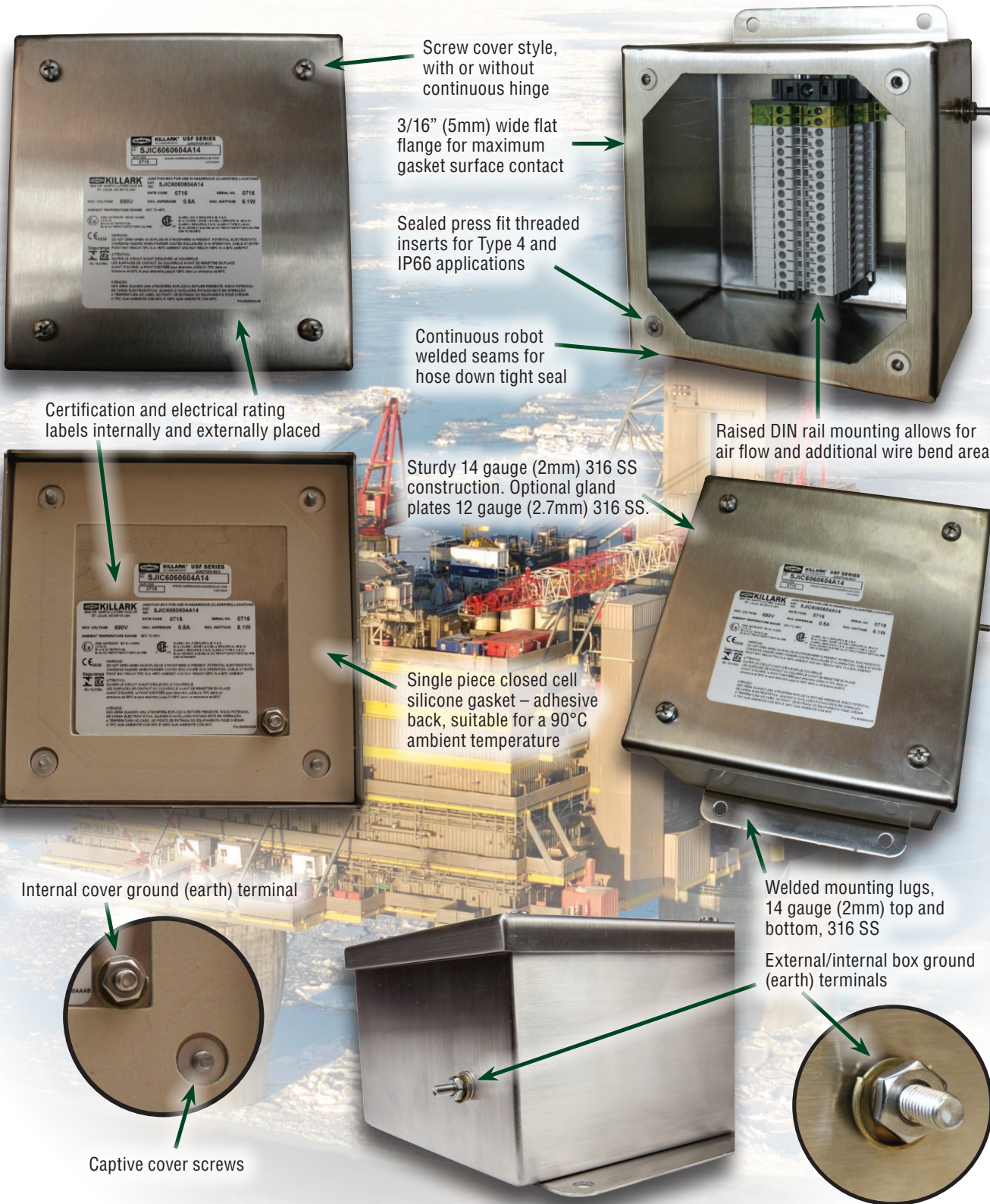
- Panel ID tag 316 stainless steel
- Tamperproof latches
- Key latches
- Copper ground / earth bars

See enclosure modification page for conduit / gland holes sizes and spacing.



ENCLOSURES
SJIC SERIES

TERMINAL BOXES FOR HARSH & HAZARDOUS ENVIRONMENTS



Screw cover style, with or without continuous hinge

3/16" (5mm) wide flat flange for maximum gasket surface contact

Sealed press fit threaded inserts for Type 4 and IP66 applications

Continuous robot welded seams for hose down tight seal

Raised DIN rail mounting allows for air flow and additional wire bend area

Certification and electrical rating labels internally and externally placed

Sturdy 14 gauge (2mm) 316 SS construction. Optional gland plates 12 gauge (2.7mm) 316 SS.

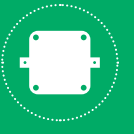
Single piece closed cell silicone gasket – adhesive back, suitable for a 90°C ambient temperature

Internal cover ground (earth) terminal

Welded mounting lugs, 14 gauge (2mm) top and bottom, 316 SS

External/internal box ground (earth) terminals

Captive cover screws



SJIC & SJICH TERMINAL BOXES • SCREW COVER & HINGED SCREW COVER



SJIC Series



USF

Terminal Boxes

NEC / CEC Certifications

Class I, Div. 2 Groups A, B, C, & D
Ex eb / Class I Zone 1 AEx eb IIC Gb
Class II, Div. 1 & 2, Groups E, F, & G
Class III

**Ex tb Zone 21 AEx tb, IIIC T80°C/
 T100°C/T130°C Db**

Type 3, 4, 4X IP66

Ta = -50°C to +40°C T6

Ta = -50°C to +55°C T5

Ta = -50°C to +90°C T4

Certificate 70013827



ATEX / IEC Ex Certificate



II 2 G D CE 2813

Ex eb IIC T6/T5/T4 Gb

Ex ib IIC T6/T5/T4 Gb

Ex tb IIIC T80°C/T100°C/T130°C
Db IP66

Ta = -50°C to +40°C

Ta = -50°C to +55°C

Ta = -50°C to +90°C

Service Temperature -55°C to +135°C



Sira 14ATEX3157

IECEX SIR 14.0055

IEEx 15.0155X

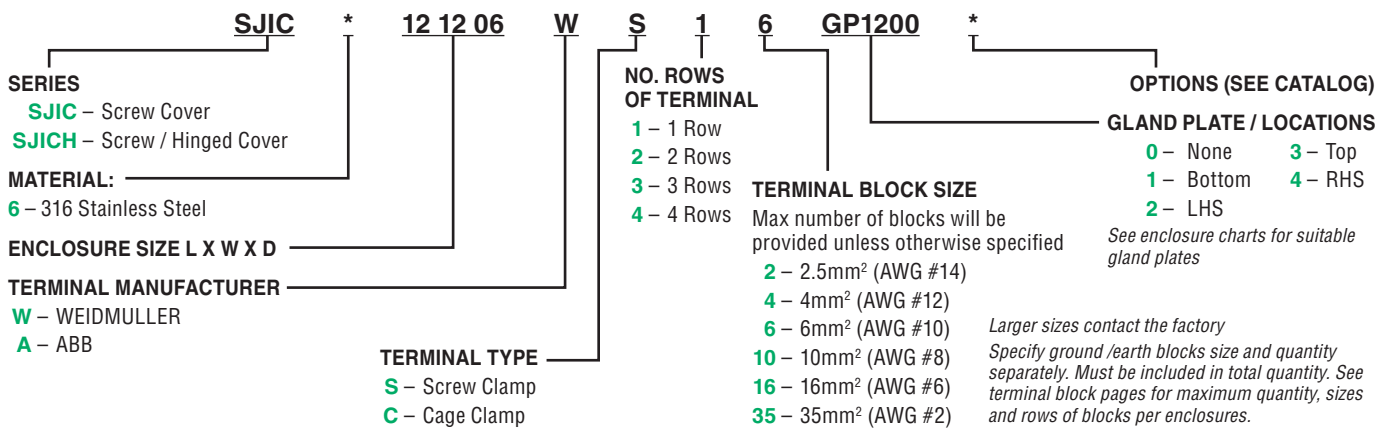
FEATURES-SPECIFICATIONS

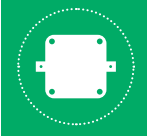
SJIC Enclosures Features – 15 Sizes
SJICH Enclosures Features – 11 Sizes

- Offered with ABB or Weidmuller terminal blocks in choice of screw terminal or cage (spring) clamp style with DIN rail mounted. Intrinsically safe terminals also available.
- Screw covers 316 stainless steel
- Continuous robot welded seams for a hose down tight seal
- SJIC doors are interchangeable and easily removable
- SJICH have continuous, one-piece hinge construction. Standard on left side.
- Ground/earthing studs in both cover and through wall of the box
- One-piece, high temperature, closed cell silicone gasket with superior recovery and re-sealing properties
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings
- Welded, one-piece mounting flanges on top and bottom for strength
- Openings for glands or conduit factory or field installed – option for gland plates

Materials

- 316 stainless steel as standard
- Optional material 304 stainless steel, carbon steel or aluminum
- All external hardware 316 stainless steel
- Gasket – one-piece, high temperature closed cell silicone



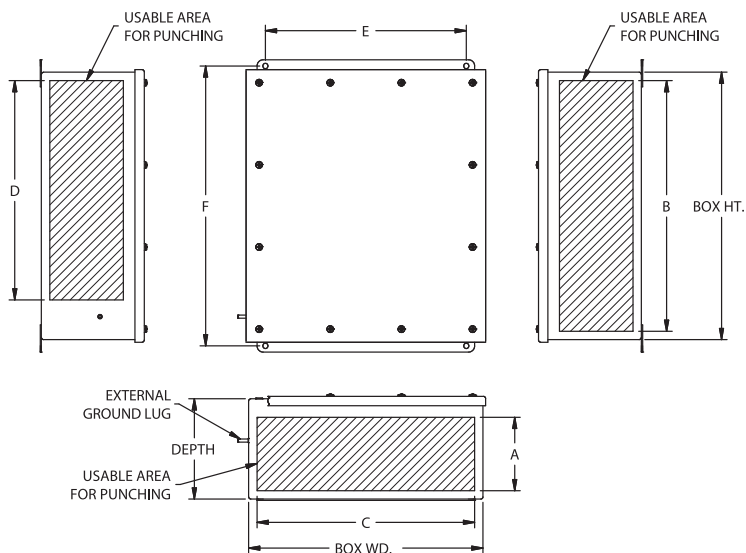


ENCLOSURES SJIC SERIES

SJIC TERMINAL BOXES

TECHNE-TERM[®]

SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X, Ex e IIC Zone 1 IP66 Drain and breather installed.
SU10-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X, Ex e IIC Zone 1 IP66 Drain only installed.
DC	Document Wallet (enclosures 10 x 10 and larger only)
SU9	Special paint finish
SU14	Fungus proofing of enclosures



See enclosure modification page for conduit / gland hole sizes and spacing.

CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"A" BLANK WALL	"B" BLANK WALL	"C" BLANK WALL	"D" BLANK WALL
SJIC6040404	4 (102)	4 (102)	4 (102)	2.00 (51)	4.75 (121)	2.47(63)	3.13 (79)	3.13 (79)	1.19 (30)
SJIC6060404	6 (152)	4 (102)	4 (102)	2.00 (51)	6.75 (171)	2.47(63)	5.13 (130)	3.13 (79)	3.19 (81)
SJIC6060604	6 (152)	6 (152)	4 (102)	4.00 (102)	6.75 (171)	2.47(63)	5.13 (130)	5.13 (130)	3.19 (81)
SJIC6060606	6 (152)	6 (152)	6 (152)	4.00 (102)	6.75 (171)	4.47 (114)	5.13 (130)	5.13 (130)	3.19 (81)
SJIC6080606*	8 (203)	6 (152)	6 (152)	4.00 (102)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)
SJIC6080804	8 (203)	8 (203)	4 (102)	6.00 (152)	8.75 (222)	2.47(63)	7.13 (181)	7.13 (181)	5.19 (132)
SJIC6080806*	8 (203)	8 (203)	6 (152)	6.00 (152)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)
SJIC6100804	10 (254)	8 (203)	4 (102)	6.00 (152)	10.75 (273)	2.47(63)	9.13 (232)	7.13 (181)	7.19 (183)
SJIC6100806*	10 (254)	8 (203)	6 (152)	6.00 (152)	10.75 (273)	4.47 (114)	9.13 (232)	7.13 (181)	7.19 (183)
SJIC6101006*	10 (254)	10 (254)	6 (152)	8.00 (203)	10.75 (273)	4.47 (114)	9.13 (232)	9.13 (232)	7.19 (183)
SJIC6121005*	12 (305)	10 (254)	5 (127)	8.00 (203)	12.75 (324)	3.47 (88)	11.13 (283)	9.13 (232)	9.19 (233)
SJIC6121006*	12 (305)	10 (254)	6 (152)	8.00 (203)	12.75 (324)	4.47 (114)	11.13 (283)	9.13 (232)	9.19 (233)
SJIC6121206*	12 (305)	12 (305)	6 (152)	10.00 (254)	12.75 (324)	4.47 (114)	11.13 (283)	11.13 (283)	9.19 (233)
SJIC6141206*	14 (356)	12 (305)	6 (152)	10.00 (254)	14.75 (375)	4.47 (114)	13.13 (334)	11.13 (283)	11.19 (284)
SJIC6161406*	16 (406)	14 (356)	6 (152)	12 (305)	16.75 (425)	4.47 (114)	15.13 (384)	13.13 (334)	13.19 (335)

All dimension in. (mm)

*Enclosure can be supplied with gland plates

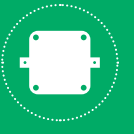
CATALOG NUMBER	(W) MAX. POWER	WEIGHT LBS / (KG)
SJIC6040404	4.1	2.83 (1.3)
SJIC6060404	5.2	3.6 (1.6)
SJIC6060604	6.1	4.9 (2.2)
SJIC6060606	8.4	5.9 (2.7)
SJIC(H)6080606	10.5	7.5 (3.4)
SJIC(H)6080804	8.4	7.9 (3.6)
SJIC(H)6080806	11.4	8.33 (3.8)
SJIC(H)6100804	8.4	9.5 (4.4)
SJIC(H)6100806	12.2	10 (4.5)
SJIC(H)6101006	13	11 (5)
SJIC(H)6121005	8.4	12 (5.4)
SJIC(H)6121006	14	13 (5.9)
SJIC(H)6121206	15	15 (6.8)
SJIC(H)6141206	16	16 (7.3)
SJIC(H)6161406	18	20 (9)

SJIC & SJICH TERMINAL BOXES

Instock Terminal Boxes

- Populated with ABB ZS4, 32 Amps 4mm² 690VAC (12 AWG 600VAC) terminal blocks.
- Supplied with two ZS 4-PE ground / earth blocks per rail.
- Blank enclosures for field modifications for gland or conduit openings.
- Material – 316 stainless steel

CATALOG NUMBER	TOTAL QTY OF TERMINALS	NO. OF RAILS
SJIC6040404A14	6	1
SJIC6060604A14	16	1
SJIC6100806A14	30	1
SJIC6101006A24	60	2
SJIC6121206A24	80	2

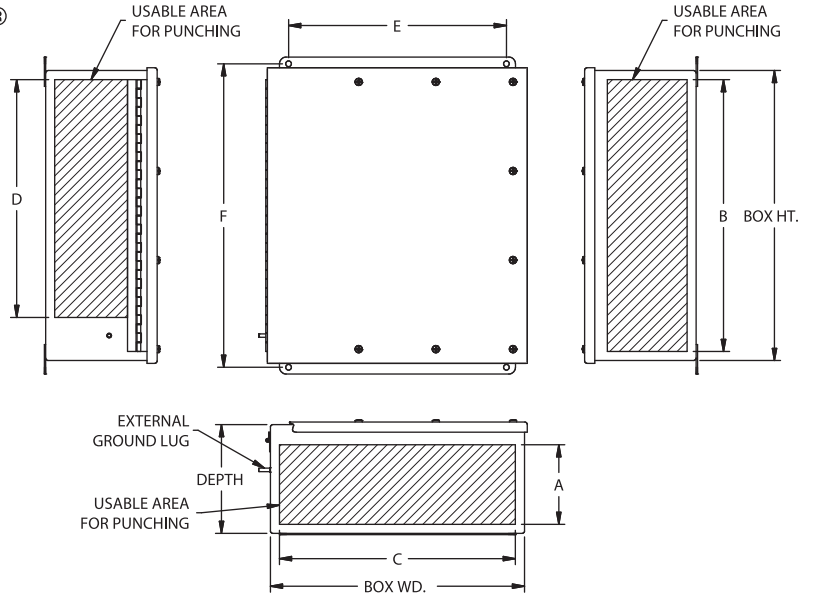


SJICH TERMINAL BOXES



SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP66 Drain and breather installed.
SU10-KDE	Class I Div. 2 Grps A, B, C & D, Type 4X. Ex e IIC Zone 1 IP66 Drain only installed.
DC	Document Wallet (enclosures 10 x 10 and larger only)
SU9	Special paint finish
SU14	Fungus proofing of enclosures

See enclosure modification page for conduit / gland hole sizes and spacing.



CATALOG NUMBER	HEIGHT IN. (MM)	WIDTH	DEPTH	"E"	"F"	"A" BLANK WALL	"B" BLANK WALL	"C" BLANK WALL	"D" BLANK WALL	"E" BLANK WALL
SJICH6080606*	8 (203)	6 (152)	6 (152)	4.00 (102)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	3.81 (97)
SJICH6080804	8 (203)	8 (203)	4 (102)	6.00 (152)	8.75 (222)	2.47(63)	7.13 (181)	7.13 (181)	5.19 (132)	1.81 (46)
SJICH6080806*	8 (203)	8 (203)	6 (152)	6.00 (152)	8.75 (222)	4.47 (114)	7.13 (181)	7.13 (181)	5.19 (132)	3.81 (97)
SJICH6100804	10 (254)	8 (203)	4 (102)	6.00 (152)	10.75 (273)	2.47(63)	9.13 (232)	7.13 (181)	7.19 (183)	1.81 (46)
SJICH6100806*	10 (254)	8 (203)	6 (152)	6.00 (152)	10.75 (273)	4.47 (114)	9.13 (232)	7.13 (181)	7.19 (183)	3.81 (97)
SJICH6101006*	10 (254)	10 (254)	6 (152)	8.00 (203)	10.75 (273)	4.47 (114)	9.13 (232)	9.13 (232)	7.19 (183)	3.81 (97)
SJICH6121005*	12 (305)	10 (254)	5 (127)	8.00 (203)	12.75 (324)	3.47 (88)	11.13 (283)	9.13 (232)	9.19 (233)	2.81 (71)
SJICH6121006*	12 (305)	10 (254)	6 (152)	8.00 (203)	12.75 (324)	4.47 (114)	11.13 (283)	9.13 (232)	9.19 (233)	3.81 (97)
SJICH6121206*	12 (305)	12 (305)	6 (152)	10.00 (254)	12.75 (324)	4.47 (114)	11.13 (283)	11.13 (283)	9.19 (233)	3.81 (97)
SJICH6141206*	14 (356)	12 (305)	6 (152)	10.00 (254)	14.75 (375)	4.47 (114)	13.13 (334)	11.13 (283)	11.19 (284)	3.81 (97)
SJICH6161406*	16 (406)	14 (356)	6 (152)	12 (305)	16.75 (425)	4.47 (114)	15.13 (384)	13.13 (334)	13.19 (335)	3.81 (97)

*Enclosure can be supplied with gland plates
All dimension in. (mm)

Standard terminal offering

- ABB ZS Screw Clamp
- ABB ZK Cage (Spring) Clamp
- Weidmuller WD Screw Clamp
- Weidmuller ZD Cage (Spring) Clamp

Terminals are mounted on TS-35 DIN rail. The rails are mounted to raised collared studs or unistrut rails which adds additional air flow and wire room.

Additional ABB and Weidmuller terminal blocks available. Contact the factory for more information.

See terminal block page for maximum number of terminals and rows per enclosure

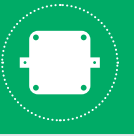
Specify ground / earth blocks size and quantity separately. Must be included in total quantity.

The SJIC(H) terminal boxes are suitable for use with Wago, Phoenix and Klemsan Elektrik terminals

Options

- Panel ID tag 316 stainless steel
- Copper ground / earth bars

SJIC / SJICH MAXIMUM CONDUIT / GLAND OPENINGS					
W/O GLAND PLATE			W/ GLAND PLATE		
BOX DEPTH	MAX NPT	MAX METRIC	BOX DEPTH	MAX NPT	MAX METRIC
4	1"	M32	4	1/2"	M20
5	1-1/2"	M50	5	1-1/4"	M40
6	3"	M80	6	2"	M63



WEIDMULLER TERMINALS

Weidmuller WD Series Screw Terminals

WDU 2.5	15 AMPS 2.5MM ² 550VAC (14 AWG)		
	1 ROW	2 ROWS	3 ROWS
SJIC604040*	9		
SJIC606040*	19		
SJIC606060*	19		
SJIC(H)608060*	29		
SJIC(H)608080*	29		
SJIC(H)610080*	34		
SJIC(H)610100*	34	68	
SJIC(H)612100*	44	88	
SJIC(H)612120*	44	88	
SJIC(H)614120*	54	108	
SJIC(H)616140*	64	128	192

WDU 4	28 AMPS 4MM ² 690VAC (12 AWG 600VAC)		
	SJIC604040*	8	
SJIC606040*	16		
SJIC606060*	16		
SJIC(H)608060*	24		
SJIC(H)608080*	24		
SJIC(H)610080*	28		
SJIC(H)610100*	28	56	
SJIC(H)612100*	37	74	
SJIC(H)612120*	37	74	
SJIC(H)614120*	45	90	
SJIC(H)616140*	53	106	159

WDU 6	36 AMPS 6MM ² 550VAC (10 AWG)		
	SJIC604040*	6	
SJIC606040*	12		
SJIC606060*	12		
SJIC(H)608060*	18		
SJIC(H)608080*	18		
SJIC(H)610080*	22		
SJIC(H)610100*	22	44	
SJIC(H)612100*	28	56	
SJIC(H)612120*	28	56	
SJIC(H)614120*	35	70	
SJIC(H)616140*	41	82	123

WDU 10	50 AMPS 10MM ² 550VAC (8 AWG)		
	SJIC604040*	0	
SJIC606040*	0		
SJIC606060*	9		
SJIC(H)608060*	14		
SJIC(H)608080*	14		
SJIC(H)610080*	17		
SJIC(H)610100*	17		
SJIC(H)612100*	22		
SJIC(H)612120*	22	44	
SJIC(H)614120*	27	54	
SJIC(H)616140*	32	64	

WDU 16	66 AMPS 16MM ² 690VAC (6 AWG 600VAC)		
	SJIC604040*	0	
SJIC606040*	0		
SJIC606060*	7		
SJIC(H)608060*	11		
SJIC(H)608080*	11		
SJIC(H)610080*	13		
SJIC(H)610100*	13		
SJIC(H)612100*	17		
SJIC(H)612120*	17	34	
SJIC(H)614120*	21	42	
SJIC(H)616140*	25	50	

WDU 35	109 AMPS 35MM ² 690VAC (2 AWG 600VAC)		
	SJIC604040*	0	
SJIC606040*	0		
SJIC606060*	0		
SJIC(H)608060*	0		
SJIC(H)608080*	8		
SJIC(H)610080*	10		
SJIC(H)610100*	10		
SJIC(H)612100*	13		
SJIC(H)612120*	13		
SJIC(H)614120*	16		
SJIC(H)616140*	19	38	

WDU 2.5N	15 AMPS 2.5MM ² 440VAC (14 AWG)			
	1 ROW	2 ROWS	3 ROWS	4 ROWS
SJIC604040*	9			
SJIC606040*	19			
SJIC606060*	19			
SJIC(H)608060*	29			
SJIC(H)608080*	29			
SJIC(H)610080*	34			
SJIC(H)610100*	34	68		
SJIC(H)612100*	44	88		
SJIC(H)612120*	44	88	132	
SJIC(H)614120*	54	108	162	
SJIC(H)616140*	64	128	192	256

WDU 4N	27 AMPS 4MM ² 440VAC (12 AWG)			
	SJIC604040*	8		
SJIC606040*	16			
SJIC606060*	16			
SJIC(H)608060*	24			
SJIC(H)608080*	24			
SJIC(H)610080*	28			
SJIC(H)610100*	28	56		
SJIC(H)612100*	37	74		
SJIC(H)612120*	37	74	111	
SJIC(H)614120*	45	90	135	
SJIC(H)616140*	53	106	159	212

WDK 2.5N	21 AMPS 2.5MM ² 550VAC (14 AWG) DOUBLE POLE FEED THROUGH			
	SJIC604040*	7		
SJIC606040*	17			
SJIC606060*	17			
SJIC(H)608060*	27			
SJIC(H)608080*	27			
SJIC(H)610080*	32			
SJIC(H)610100*	32	64		
SJIC(H)612100*	42	84		
SJIC(H)612120*	42	84		
SJIC(H)614120*	52	104		
SJIC(H)616140*	62	124	186	

WDK 4N	28 AMPS 4MM ² 550VAC (12 AWG) DOUBLE POLE FEED THROUGH			
	SJIC604040*	6		
SJIC606040*	14			
SJIC606060*	14			
SJIC(H)608060*	22			
SJIC(H)608080*	22			
SJIC(H)610080*	26			
SJIC(H)610100*	26	52		
SJIC(H)612100*	35	70		
SJIC(H)612120*	35	70		
SJIC(H)614120*	43	86		
SJIC(H)616140*	51	102	153	

WDK 2.5N V	21 AMPS 2.5MM ² 550VAC (14 AWG) FOUR POLES FEED THROUGH			
	SJIC604040*	7		
SJIC606040*	17			
SJIC606060*	17			
SJIC(H)608060*	27			
SJIC(H)608080*	27			
SJIC(H)610080*	32			
SJIC(H)610100*	32	64		
SJIC(H)612100*	42	84		
SJIC(H)612120*	42	84		
SJIC(H)614120*	52	104		
SJIC(H)616140*	62	124	186	

WDK 4N V	28 AMPS 4MM ² 550VAC (12 AWG) FOUR POLES FEED THROUGH			
	SJIC604040*	6		
SJIC606040*	14			
SJIC606060*	14			
SJIC(H)608060*	22			
SJIC(H)608080*	22			
SJIC(H)610080*	26			
SJIC(H)610100*	26	52		
SJIC(H)612100*	35	70		
SJIC(H)612120*	35	70		
SJIC(H)614120*	43	86		
SJIC(H)616140*	51	102	153	

Weidmuller ZD Series Cage Clamp Terminals

ZDU 2.5	21 AMPS 2.5MM ² 550VAC (14 AWG)		
	1 ROW	2 ROWS	3 ROWS
SJIC604040*	9		
SJIC606040*	19		
SJIC606060*	19		
SJIC(H)608060*	29		
SJIC(H)608080*	29		
SJIC(H)610080*	34		
SJIC(H)610100*	34	68	
SJIC(H)612100*	44	88	
SJIC(H)612120*	44	88	
SJIC(H)614120*	54	108	
SJIC(H)616140*	64	128	201

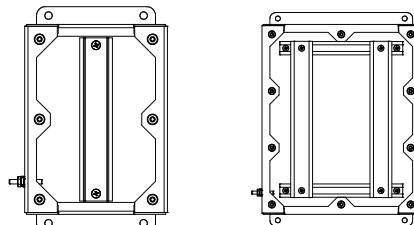
ZDU 4	28 AMPS 4MM ² 550VAC (12 AWG)		
	SJIC604040*	8	
SJIC606040*	16		
SJIC606060*	16		
SJIC(H)608060*	24		
SJIC(H)608080*	24		
SJIC(H)610080*	28		
SJIC(H)610100*	28	56	
SJIC(H)612100*	37	74	
SJIC(H)612120*	37	74	
SJIC(H)614120*	45	90	
SJIC(H)616140*	53	106	201

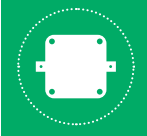
ZDU 6	36 AMPS 6MM ² 550VAC (10 AWG)		
	SJIC604040*	6	
SJIC606040*	12		
SJIC606060*	12		
SJIC(H)608060*	18		
SJIC(H)608080*	18		
SJIC(H)610080*	21		
SJIC(H)610100*	21	42	
SJIC(H)612100*	27	54	
SJIC(H)612120*	27	54	
SJIC(H)614120*	34	68	
SJIC(H)616140*	40	80	201

ZDU 10	50 AMPS 10MM ² 550VAC (8 AWG)		
	SJIC604040*		
SJIC606040*			
SJIC606060*	9		
SJIC(H)608060*	14		
SJIC(H)608080*	14		
SJIC(H)610080*	17		
SJIC(H)610100*	17		
SJIC(H)612100*	22		
SJIC(H)612120*	22	44	
SJIC(H)614120*	27	54	
SJIC(H)616140*	32	64	

ZDU 16	66 AMPS 16MM ² 690VAC (6 AWG 600VAC)		
	SJIC604040*		
SJIC606040*			
SJIC606060*			
SJIC(H)608060*			
SJIC(H)608080*	12		
SJIC(H)610080*	14		
SJIC(H)610100*	14		
SJIC(H)612100*	18		
SJIC(H)612120*	18	36	
SJIC(H)614120*	22	44	
SJIC(H)616140*	26	52	

ZDU 35	109 AMPS 35MM ² 690VAC (2 AWG 600VAC)		
	SJIC604040*		
SJIC606040*			
SJIC606060*			
SJIC(H)608060*			
SJIC(H)608080*			
SJIC(H)610080*			
SJIC(H)610100*	11		
SJIC(H)612100*	14		
SJIC(H)612120*	14		
SJIC(H)614120*	17		
SJIC(H)616140*	20		





ENCLOSURES

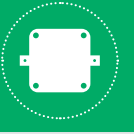
USF / SJIC / SJICH SERIES

IEC EX E RATINGS

ABB TERM BLOCK	TERMINAL RESISTIVE OHMS	MAX AMPS	MAX VAC	MAX WIRE SIZE		WIRE STRIP LENGTH IN. (MM)	TORQUE VALUES		AMBIENT TEMPERATURE		
				MAX WIRE - METRIC			MAX WIRE - USA			NM	LB.IN
				MM ²	RESISTIVE OHMS/M		AWG	RESISTIVE OHMS/M			
ZS4	0.00098	32	690	4	0.00461	12	0.005210	0.413 (10.5)	0.6	5.3	-55°C to +105°C
ZS6	0.00077	41	690	6	0.00308	10	0.003277	0.413 (10.5)	0.85	7.5	
ZS10	0.0018	57	690	10	0.00183	6	0.001296	0.472 (12.0)	1.3	11.5	
ZS16	0.0024	76	690	16	0.00115	4	0.000813	0.531 (13.5)	1.8	15.9	
ZS35	0.004	125	690	35	0.000524	1/0	0.000323	0.669 (17.0)	2.9	25.7	
ZS4-D1	0.00226	29	440	4	0.00461	12	0.005210	0.394 (10.0)	0.6	5.3	
ZS6-D1	0.00226	40	440	6	0.00308	10	0.003277	0.394 (10.0)	0.85	7.5	
ZS4-D2	0.0026	29	440	4	0.00461	12	0.005210	0.394 (10.0)	0.6	5.3	
ZS6-D2	0.0026	40	440	6	0.00308	10	0.003277	0.394 (10.0)	0.85	7.5	
ZK2.5	0.0008	21	630	2.5	0.00741	12	0.005210	0.433 (11.0)	N/A	N/A	
ZK4	0.001	29	630	4	0.00461	10	0.003277	0.492 (12.5)			
ZK6	0.0013	37	630	6	0.00308	8	0.002061	0.492 (12.5)			
ZK10	0.0018	51	630	10	0.00115	6	0.001296	0.591 (15.0)			
ZK16	0.0024	69	630	16	0.000524	4	0.000813	0.591 (15.0)			
ZK2.5-3P	0.0008	21	630	2.5	0.00741	12	0.005210	0.433 (11.0)			
ZK4-3P	0.001	29	630	4	0.00461	10	0.003277	0.492 (12.5)			
ZK6-3P	0.0013	37	630	6	0.00308	8	0.002061	0.492 (12.5)			
ZK2.5-4P	0.0008	21	630	2.5	0.00741	12	0.005210	0.433 (11.0)			
ZK4-4P	0.001	29	630	4	0.00461	10	0.003277	0.492 (12.5)			

WEIDMULLER TERM BLOCK	TERMINAL RESISTIVE OHMS	MAX AMPS	MAX VAC	MAX WIRE SIZE		WIRE STRIP LENGTH IN. (MM)	TORQUE VALUES		AMBIENT TEMPERATURE		
				MAX WIRE - METRIC			MAX WIRE - USA			NM	LB.IN
				MM ²	RESISTIVE OHMS/M		AWG	RESISTIVE OHMS/M			
WDU 2.5	0.00033	15	550	2.5	0.00741	14	0.008284	0.394 (10.0)	0.4 - 0.8	0.3 - 0.6	-50°C to +100°C
WDU 4	0.00031	28	690	4	0.00461	12	0.005210	0.394 (10.0)	0.5 - 1.0	0.4 - 0.7	
WDU 6	0.00028	36	550	6	0.00308	10	0.003277	0.472 (12.0)	0.8 - 1.6	0.6 - 1.2	
WDU 10	0.0002	50	550	10	0.00183	8	0.002061	0.472 (12.0)	1.2 - 2.4	0.9 - 1.8	
WDU 16	0.00015	66	690	16	0.00115	6	0.001296	0.630 (16.0)	2.0 - 4.0	1.5 - 3.0	
WDU 35	0.0001	109	690	35	0.000524	2	0.000513	0.708 (18.0)	4.0 - 5.0	3.0 - 3.7	
WDU 2.5N	0.00036	15	440	2.5	0.00741	14	0.008284	0.394 (10.0)	0.4 - 0.6	0.3 - 0.4	
WDU 4N	0.00033	27	440	4	0.00461	12	0.005210	0.433 (11.0)	0.5 - 1.0	0.4 - 0.7	
WDK 2.5N	0.00053	21	550	2.5	0.00741	14	0.008284	0.315 (8.0)	0.4 - 0.6	0.3 - 0.4	
WDK 4N	0.00033	28	550	4	0.00461	12	0.005210	0.315 (8.0)	0.5 - 1.0	0.4 - 0.7	
WDK 2.5NV	0.00076	21	550	2.5	0.00741	14	0.008284	0.315 (8.0)	0.4 - 0.6	0.3 - 0.4	
WDK 4NV	0.00045	28	550	4	0.00461	12	0.005210	0.315 (8.0)	0.5 - 1.0	0.4 - 0.7	
ZDU 2.5	0.00033	21	550	2.5	0.00741	14	0.008284	0.394 (10.0)	N/A	N/A	
ZDU 4	0.00031	28	550	4	0.00461	12	0.005210	0.472 (12.0)			
ZDU 6	0.00028	36	550	6	0.00308	10	0.003277	0.512 (13.0)			
ZDU 10	0.0002	50	550	10	0.00183	8	0.002061	0.708 (18.0)			
ZDU 16	0.00015	66	550	16	0.00115	6	0.001296	0.708 (18.0)			
ZDU 35	0.0001	109	550	35	0.000524	2	0.000513	0.980 (25.0)			

PHOENIX TERM BLOCK	TERMINAL RESISTIVE OHMS	MAX AMPS	MAX VAC	MAX WIRE SIZE		WIRE STRIP LENGTH IN. (MM)	TORQUE VALUES		AMBIENT TEMPERATURE		
				MAX WIRE - METRIC			MAX WIRE - USA			NM	LB.FT
				MM ²	RESISTIVE OHMS/M		AWG	RESISTIVE OHMS/M			
UT 2.5	0.00041	22	690	2.5	0.00741	12	0.005210	0.35 (9.00)	0.5 - 0.6	0.4	-60°C to +110°C
UT 4	0.00026	30	690	4	0.00461	10	0.003277	0.35 (9.00)	0.6 - 0.8	0.4 - 0.6	
UT 6	0.0002	40	690	6	0.00308	8	0.002061	0.39 (10.00)	1.5 - 1.8	1.1 - 1.3	
UT 10	0.00014	54	690	10	0.00183	6	0.001296	0.39 (10.00)	1.5 - 1.8	1.1 - 1.3	
UT 16	0.00016	73.5	690	16	0.00115	4	0.000813	0.55 (14.00)	2.5 - 3	1.8 - 2.2	
UT 35	0.00006	126	690	35	0.000524	1/0	0.000323	0.708 (18.00)	3.2 - 3.7	2.4 - 2.7	
UK 2.5N	0.00041	24	550	2.5	0.00741	14	0.008284	0.28 (7.00)	0.6 - 0.8	0.4 - 0.6	
UK 3N	0.0005	29	690	2.5	0.00461	12	0.005210	0.315 (8.0)	0.6 - 0.8	0.4 - 0.6	
UK 5N	0.00037	32	690	4	0.00308	10	0.003277	0.315 (8.0)	0.6 - 0.8	0.4 - 0.6	
UK 6N	0.00016	41	690	6	0.00183	8	0.002061	0.39 (10.00)	1.5 - 1.8	1.1 - 1.3	
UK 10N	0.00012	57	690	10	0.00115	6	0.001296	0.39 (10.00)	1.5 - 1.8	1.1 - 1.3	
UK 16N	0.00017	74	690	16	0.000524	4	0.000813	0.433 (11.0)	1.5 - 1.8	1.1 - 1.3	
ST 2.5	0.00141	21	550	2.5	0.00741	12	0.005210	0.39 (10.00)	N/A	N/A	
ST 4	0.00063	30	550	4	0.00461	10	0.003277	0.39 (10.00)			
ST 6	0.00056	36.5	550	6	0.00308	8	0.002061	0.472 (12.0)			
ST 10	0.0004	50	550	10	0.00183	6	0.001296	0.708 (18.00)			
ST 16	0.00034	65	550	16	0.00115	4	0.000813	0.708 (18.00)			
ST 35	0.00021	108	690	35	0.000524	2	0.000513	0.980 (25.0)			



USF / SJIC / SJICH ENCLOSURES



TABLE 1: Minimum distance from edge of box to the center of the conduit / cable entry.

NPT (METRIC)	4"	3-1/2"	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (MM)	2-3/4 (70)	2-1/2 (64)	2 (51)	2 (51)	1-5/8 (41)	1-3/8 (35)	1-1/4 (32)	1 (25)	7/8 (22)	3/4 (19)

TABLE 2 Minimum distance from edge of gland plate to the center of the conduit / cable entry.

NPT (METRIC)	4" (M100)	3-1/2" (M80)	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (MM)	3-1/4 (83)	3 (76)	2-3/4 (70)	2-1/2 (64)	2-1/8 (54)	1-7/8 (48)	1-3/4 (44)	1-1/2 (38)	1-3/8 (35)	1-1/4 (32)

TABLE 3: NEC / CEC minimum wire bending space from inside wall of the enclosure, North America applications only.

SIZE AWG (MM2)	16 (1.5)	14 (2.5)	12 (4)	10 (6)	8 (10)	6 (16)	4 (25)	2 (35)	1/0 (50)	2/0 (70)	3/0 (95)	4/0 (120)
IN. (MM)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	2 (51)	3 (76)	3.5 (89)	5.5 (140)	6 (152)	6.5 (164)	7 (178)

TABLE 4: Punched hole diameters. For additional sizes not shown please contact the factory.

NPT	4"	3-1/2"	3"	2-1/2"	2"	1-1/2"	1-1/4"	1"	3/4"	1/2"
MAX. HOLE DIA. IN. (MM)	4.53 (115.06)	4.03 (102.36)	3.53 (89.66)	2.905 (73.79)	2.405 (61.08)	1.93 (49.2)	1.69 (42.93)	1.345 (34.16)	1.08 (27.4)	.87 (22.09)
METRIC	M100	M80	M75	M63	M50	M40	M32	M25	M20	M16
MAX. HOLE DIA. MM (IN.)	100.7 (3.94)	80.7 (3.15)	75.7 (2.95)	63.7 (2.48)	50.7 (1.97)	40.7 (1.58)	32.7 (1.26)	25.7 (0.98)	20.7 (0.79)	16.7 (0.63)

TABLE 5: Minimum distance of the center line to center line of the conduit / cable entries.

(NPT) [METRIC]	4 [M100]	3 1/2 [M80]	3 [M75]	2 1/2 [M63]	2 [M50]	1 1/2 [M40]	1 1/4 [M32]	1 [M25]	3/4 [M20]	1/2 [M16]
1/2 [M16]	3 5/8 [92mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 1/4 [58mm]	2 1/8 [54mm]	1 7/8 [48mm]	1 3/4 [45mm]	1 5/8 [41mm]
3/4 [M20]	3 3/4 [96mm]	3 1/2 [89mm]	3 1/4 [83mm]	2 7/8 [74mm]	2 5/8 [68mm]	2 3/8 [60mm]	2 1/4 [58mm]	2 [51mm]	1 7/8 [48mm]	
1 [M25]	3 7/8 [99mm]	3 5/8 [92mm]	3 3/8 [86mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 3/8 [60mm]	2 1/8 [54mm]		
1 1/4 [M32]	4 1/8 [105mm]	3 7/8 [99mm]	3 1/2 [89mm]	3 1/4 [83mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]			
1 1/2 [M40]	4 1/4 [108mm]	4 [102mm]	3 3/4 [96mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 7/8 [73mm]				
2 [M50]	4 3/4 [121mm]	4 1/2 [115mm]	4 [102mm]	3 5/8 [92mm]	3 3/8 [86mm]					
2 1/2 [M63]	4 7/8 [124mm]	4 5/8 [118mm]	4 1/4 [108mm]	3 7/8 [99mm]						
3 [M75]	5 1/4 [134mm]	5 [127mm]	4 5/8 [118mm]							
3 1/2 [M80]	5 3/4 [147mm]	5 1/2 [140mm]								
4 [M100]	6 1/4 [159mm]									

All dimension in. (mm)

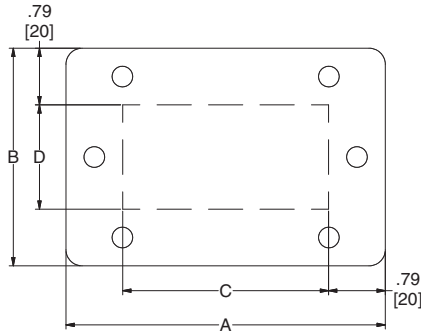


USF / SJIC(H) TERMINAL BOXES AND ENCLOSURES

Replacement Gland Plates

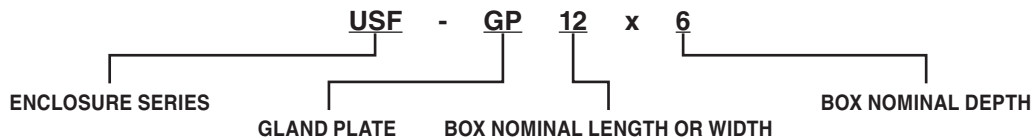
Gland plate kit comes with the following:

- Gland plate in 316 stainless steel
- Mounting screws and retaining washers
- One-piece, closed cell silicone gasket

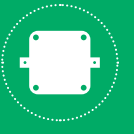


REPLACEMENT GLAND PLATES				
CATALOG NUMBER: 316 STAINLESS STEEL	"A" OVER ALL LENGTH	"B" OVER ALL WIDTH	"C" AREA FOR OPENINGS	"D" AREA FOR OPENINGS
USF-GP12X6	10.97 [279]	5.74 [146]	9.40 [239]	4.16 [106]
USF-GP12X8	10.97 [279]	7.74 [197]	9.40 [239]	6.16 [156]
USF-GP12X10	10.97 [279]	9.74 [247]	9.40 [239]	8.16 [207]
USF-GP16X6	14.97 [380]	5.74 [146]	13.40 [340]	4.16 [106]
USF-GP16X8	14.97 [380]	7.74 [197]	13.40 [340]	6.16 [156]
USF-GP16X10	14.97 [380]	9.74 [247]	13.40 [340]	8.16 [207]
USF-GP20X6	18.97 [482]	5.74 [146]	17.40 [442]	4.16 [106]
USF-GP20X8	18.97 [482]	7.74 [197]	17.40 [442]	6.16 [156]
USF-GP20X10	18.97 [482]	9.74 [247]	17.40 [442]	8.16 [207]
USF-GP20X12	18.97 [482]	11.74 [298]	17.40 [442]	10.16 [258]
USF-GP24X6	22.97 [583]	5.74 [146]	21.40 [544]	4.16 [106]
USF-GP24X8	22.97 [583]	7.74 [197]	21.40 [544]	6.16 [156]
USF-GP24X10	22.97 [583]	9.74 [247]	21.40 [544]	8.16 [207]
USF-GP24X12	22.97 [583]	11.74 [298]	21.40 [544]	10.16 [258]
USF-GP24X16	22.97 [583]	15.74 [400]	21.40 [544]	14.16 [360]
USF-GP24X20	22.97 [583]	19.74 [501]	21.40 [544]	18.16 [461]
USF-GP30X8	27.59 [701]	7.74 [197]	26.02 [661]	6.16 [156]
USF-GP30X10	27.59 [701]	9.74 [247]	26.02 [661]	8.16 [207]
USF-GP30X12	27.59 [701]	11.74 [298]	26.02 [661]	10.16 [258]
USF-GP30X16	27.59 [701]	15.74 [400]	26.02 [661]	14.16 [360]
USF-GP30X20	27.59 [701]	19.74 [501]	33.02 [839]	18.16 [461]
USF-GP36X8	34.59 [879]	7.74 [197]	33.02 [839]	6.16 [156]
USF-GP36X10	34.59 [879]	9.74 [247]	33.02 [839]	8.16 [207]
USF-GP36X12	34.59 [879]	11.74 [298]	33.02 [839]	10.16 [258]
SJIC6-GP0404	3.74 [95]	3.28 [83]	2.16 [55]	1.71 [43]
SJIC6-GP0604	5.74 [146]	3.28 [83]	4.16 [106]	1.71 [43]
SJIC6-GP0804	7.74 [197]	3.28 [83]	6.16 [156]	1.71 [43]
SJIC6-GP1004	9.74 [247]	3.28 [83]	8.16 [207]	1.71 [43]
SJIC6-GP1005	9.74 [247]	4.28 [109]	8.16 [207]	2.71 [69]
SJIC6-GP0606	5.74 [146]	5.28 [134]	4.16 [106]	3.71 [94]
SJIC6-GP0806	7.74 [197]	5.28 [134]	6.16 [156]	3.71 [94]
SJIC6-GP1006	9.74 [247]	5.28 [134]	8.16 [207]	3.71 [94]
SJIC6-GP1206	11.74 [298]	5.28 [134]	10.16 [258]	3.71 [94]
SJIC6-GP1406	13.74 [349]	5.28 [134]	12.16 [309]	3.71 [94]

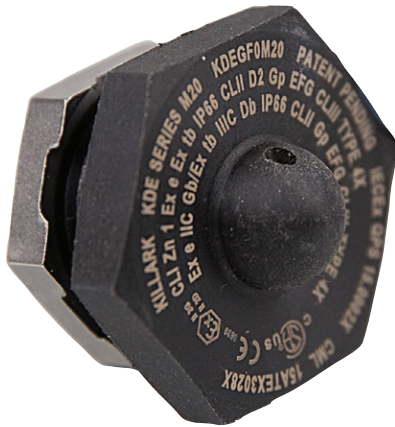
CATALOG LOGIC



Note: Gland plates not supplied with ground stud / earth connection. If one is required, contact the factory for price and special part number.



KDE DRAIN / BREATHER



KDE
Drain / Breather

NEC / CEC Certifications

Class I, Div. 2, Groups A, B, C, & D

Class I, Zone 1 AEx e IIC Gb

Class II, Div. 1, Groups E, F, & G

(Canada Only)

Class II, Div. 2, Groups E, F, & G

Class III

Ex e IIC Gb / Ex tb IIIC Db

Zone 21 AEx tb, IIIC Db

Type 3, 4, 4X IP66

Ta = -55°C to +80°C



Certificate LR11716 - 2714851



ATEX / IEC Ex Certifications

II 2 G D CE 2813

Ex e IIC Gb

Ex tb IIIC Db IP66

Service Temperature -55°C to +80°C

CML 15ATEX3028X



IECEx QPS 15.0002X

IEEx 15.0154X

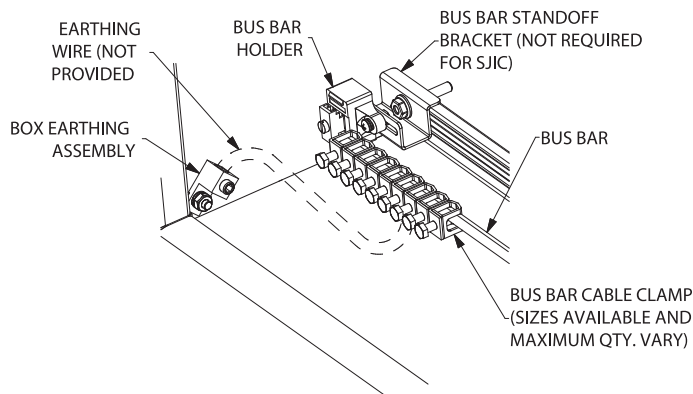
Available In

- KDEAL0050 – Alum ½” NPT
- KDEALOM20 – Alum M20
- KDE60050 – 316SS ½” NPT
- KDES60M20 – 316SS M20
- KDEGF0050 – Plastic ½” NPT
- KDEGF0M20 – Plastic M20

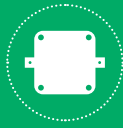
BUS BAR / GROUND BUS OPTION

Description:

- **BUS BAR** – Tin plated copper, 10mm wide x 3 mm thick, rated for 140 amperes
- **BUS CLAMPS** – ZB 4 wire range 0.5 - 6mm² (#20 to #10 AWG) ZB 10 wire range 1.5 - 10mm² (#16 to #8 AGW)
- **KIT CONTAINS** – mounting hardware, mounting brackets, bus bar and bus clamps



CATALOG NUMBER	CLAMP SIZE	QTY	BOX SERIES / WIDTH
SJIC-GB10N4-26	ZB 4	26	SJIC 10"
SJIC-GB10N10-17	ZB 10	17	
SJIC-GB12N4-36	ZB 4	36	SJIC 12"
SJIC-GB12N10-23	ZB 10	23	
SJIC-GB14N4-45	ZB 4	45	SJIC 14"
SJIC-GB14N10-30	ZB 10	30	
USF-GB12N4-35	ZB 4	35	USF 12"
USF-GB12N10-22	ZB 10	22	
USF-GB16N4-54	ZB 4	54	USF 16"
USF-GB16N10-35	ZB 10	35	
USF-GB18N4-63	ZB 4	63	USF 18"
USF-GB18N10-41	ZB 10	41	
USF-GB20N4-73	ZB 4	73	USF 20"
USF-GB20N10-48	ZB 10	48	
USF-GB24N4-92	ZB 4	92	USF 24"
USF-GB24N10-61	ZB 10	61	
USF-GB30N4-114	ZB 4	114	USF 30"
USF-GB30N10-75	ZB 10	75	



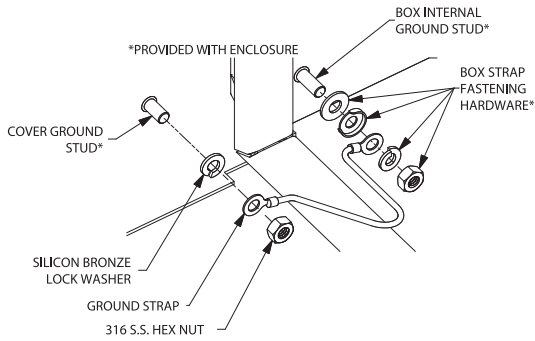
ENCLOSURES USF/SJIC(H) SERIES

ACCESSORIES

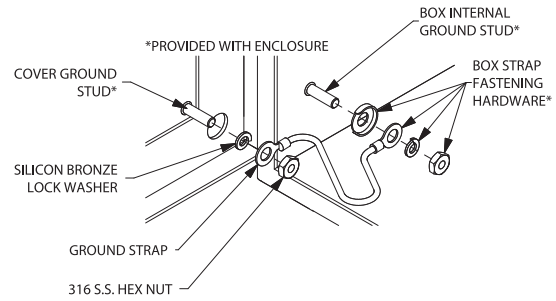
CATALOG NUMBER	DESCRIPTION
USF-DC	Document Door Wallet
USF-CVGRD	Cover Ground (earth) Kit
USF-BOXGRD	Box Ground (earth) Kit
USF-MTGFEET	Mounting Feet, Pack of 4
SJIC-CVGRD	Cover Ground (earth) Kit
SJIC-INTGRD	Box Ground (earth) Kit
SJIC-EXTGRD	External Ground (earth) Kit



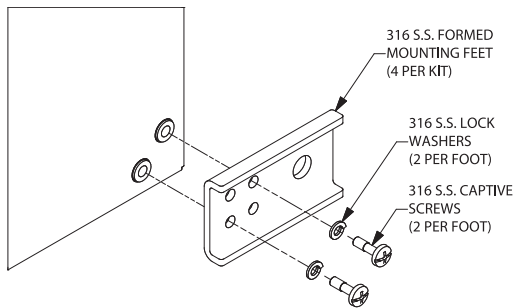
USF-DC



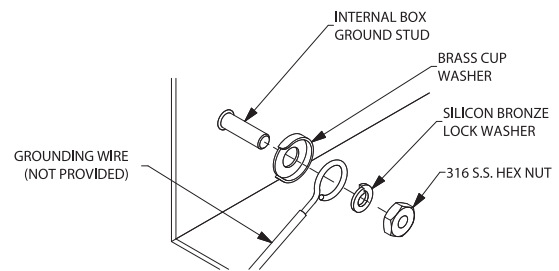
USF-CVGRD



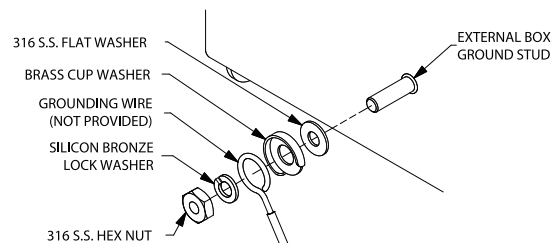
SJIC-CVGRD



USF-MTGFEET

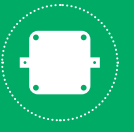


SJIC-INTGRD

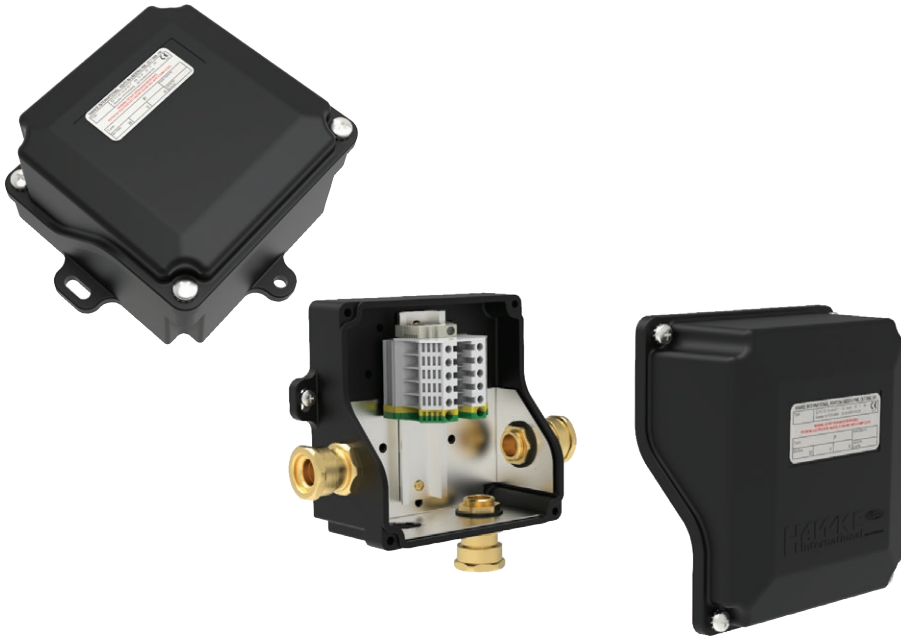


SJIC-EXTGRD

HAWKE ENCLOSURES - PL5 SERIES



NON-METALLIC JUNCTION/TERMINAL BOXES



PL5

Empty/Terminal Enclosure

NEC/CEC Certifications

Class I, Zone 1, AEx e IIC Gb
Zone 21, AEx tb IIIC T80°C Db
IP66/67

Ta= -60°C to +75°C

Certificate 70039997



ATEX/IEC Ex Certifications



II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db IP66/67

Baseefa14ATEX0268X

Baseefa14ATEX0248U

IECEX BAS 14.0123X

IECEX BAS 14.0120U

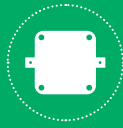
FEATURES-SPECIFICATIONS

Features

- Glass Reinforced Plastic (GRP) construction – lightweight, economical, corrosion resistant, and designed to withstand impact up to 7Nm.
- External mounting feet eliminate need to remove lid when mounting enclosure on wall
- Captive stainless steel cover screws – prevent loss of screws during assembly and maintenance
- Dropped lid design (PL511 and PL514 models) facilitates hand access to make wiring and inspections of terminations easier than that of traditional square, rectangular, or octagonal enclosures
- Earth continuity plate available in Zintec

Materials

- **BOX/LID:** Glass Reinforced Plastic (GRP)
- **SCREWS:** 316 stainless steel
- **EARTH CONTINUITY PLATE:** Zintec



ENCLOSURES

HAWKE ENCLOSURES - PL5 SERIES

NON-METALLIC JUNCTION/TERMINAL BOXES

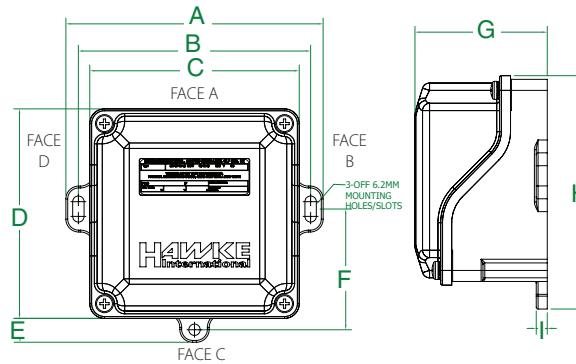
PL511/PL514 DIMENSIONS									
CATALOG NUMBER	A	B	C	D	E	F	G	H	I
PL511	5.51 (140)	4.98 (126.4)	4.49 (114)	4.49 (114)	0.51 (13)	2.59 (65.7)	2.83 (72)	5.00 (127)	0.24 (6)
PL514	6.69 (170)	6.16 (156.4)	5.68 (144.2)	5.69 (144.4)	0.51 (13)	3.57 (90.7)	3.66 (93)	6.18 (157)	0.28 (7)

All dimensions in. (mm)

MAXIMUM QUANTITY OF ENTRIES PER FACE									
CATALOG NUMBER	THREAD SIZE	M16	M20	M25	M32	M40	M50	M63	M74
PL511 *	Face B	—	1	—	—	—	—	—	—
	Face C	—	2	—	—	—	—	—	—
	Face D	—	1	—	—	—	—	—	—
PL514	Face B	2	2	1	—	—	—	—	—
	Face C	6	6	2	2	—	—	—	—
	Face D	2	2	1	—	—	—	—	—

CAUTION: Entry quantities are calculated based on standard gland diameters. Entry quantity may be affected if using accessories (locknuts, washers etc) with large diameters.

* PL511 comes standard with four M20 holes

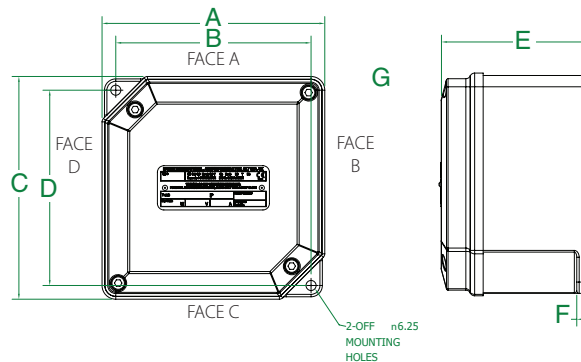


PL513/PL520 DIMENSIONS						
CATALOG NUMBER	A	B	C	D	E	F
PL513	5.43 (138)	4.76 (121)	5.43 (138)	4.76 (121)	3.75 (95)	0.43 (11)
PL520	7.87 (200)	7.32 (186)	5.31 (135)	4.76 (121)	3.75 (95)	0.43 (11)

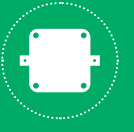
All dimensions in. (mm)

MAXIMUM QUANTITY OF ENTRIES PER FACE									
CATALOG NUMBER	THREAD SIZE	M16/ M20/O	M20/A	M25	M32	M40	M50	M63	M74
PL513	Face A/B/C/D	5	3	2	—	—	—	—	—
	Face A/C	9	5	3	—	—	—	—	—
PL520	Face B/D	5	3	2	—	—	—	—	—

CAUTION: Entry quantities are calculated based on standard gland diameters. Entry quantity may be affected if using accessories (locknuts, washers etc) with large diameters.



HAWKE ENCLOSURES - PL5 SERIES



NON-METALLIC JUNCTION/TERMINAL BOXES

PL 511 TERMINAL CAPACITY

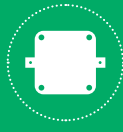
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5N	0.5	2.5	440	V	9	1	11	3	17
WDU 2.5	0.5	2.5	690	V	9		11	3	17
UT 2.5	0.14	3	690	V	9		11	6	15
WDU 4	0.5	4	690	V	8		15	3	22
UT 4	0.14	4	690	V	8		15	5	20
WDU 6	0.5	6	690	V	5		23	3	29
UT 6	0.2	6	690	V	6		21	4	28

Max terminals are split across the quantity of terminal rails

PL513 TERMINAL CAPACITY

TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5N	0.5	2.5	440	V/H D	16 18	1	12 11	7	17
WDU 2.5	0.5	3	690	V/H D	16 18		12 11	7	17
UT 2.5	0.14	3	690	V/H D	16 17		12 11	10	15
WDU 4	0.5	4	690	V/H D	13 15		16 15	7	22
UT 4	0.14	4	690	V/H D	13 14		17 16	9	20
WDU 6	0.5	6	690	V/H D	10 11		23 22	6	29
UT 6	0.2	6	690	V/H D	9 11		24 22	6	28
WDU 10	1.5	10	690	V/H D	8 9		32 30	5	40
UT 10	0.5	10	690	V/H D	7 8		35 33	5	39

** Max terminals are split across the quantity of terminal rails*



HAWKE ENCLOSURES - PL5 SERIES

NON-METALLIC JUNCTION/TERMINAL BOXES

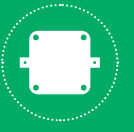
PL514 TERMINAL CAPACITY									
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5N	0.5	2.5	440	V	18	1	11	7	17
WDU 2.5	0.5	2.5	690	V	18		11	7	17
UT 2.5	0.1	2.5	690	V	17		11	10	15
WDU 4	0.5	4.0	690	V	14		15	7	22
UT 4	0.1	4.0	690	V	14		16	9	20
WDU 6	0.5	6.0	690	V	11		22	6	29
UT6	0.2	6.0	690	V	10		23	6	28
WDU 10	1.5	10.0	690	V	8		32	5	40
UT 10	0.5	10.0	690	V	8		33	5	39

* Max terminals are split across the quantity of terminal rails

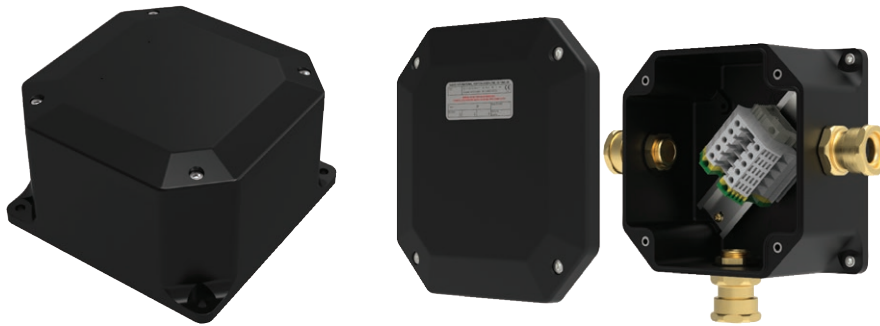
PL520 TERMINAL CAPACITY									
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5	0.5	2.5	690	V H	16 30	1	12 8	7	17
UT 2.5	0.14	3	690	V H	16 29		11 8	9	15
WDU 4	0.5	4	690	V H	13 25		16 11	7	22
UT 4	0.14	4	690	V H	13 24		16 12	8	20
WDU 6	0.5	6	690	V H	10 19		23 16	6	29
UT6	0.2	6	690	V H	9 18		24 17	6	28
WDU 10	1.5	10	690	V H	8 15		32 23	5	40
UT 10	0.5	10	690	V H	7 14		35 24	5	39

* Max terminals are split across the quantity of terminal rails

HAWKE ENCLOSURES - PL6 SERIES



NON-METALLIC JUNCTION BOXES



PL6

Empty/Terminal Enclosure

NEC/CEC Certifications

Class I, Zone 1, AEx e IIC Gb
Zone 21, AEx tb IIIC T80°C Db
IP66/67

Ta= -60°C to +75°C

Certificate 70039997



ATEX/IEC Ex Certifications

II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db IP66/67

Baseefa14ATEX0268X

Baseefa14ATEX0248U

IECEX BAS 14.0123X

IECEX BAS 14.0120U

FEATURES-SPECIFICATIONS

Features

- Glass Reinforced Plastic (GRP) construction – robust, corrosion resistant, and designed to withstand impact up to 20Nm.
- Anti-Static properties remove risk of ignition sources from static induced sparking
- External mounting feet eliminate need to remove lid when mounting enclosure on wall
- Captive stainless steel cover screws – prevent loss of screws during assembly and maintenance
- Earth continuity plate available in Zintec

Materials

- **BOX/LID:** Glass Reinforced Plastic (GRP)
- **SCREWS:** 316 stainless steel
- **EARTH CONTINUITY PLATE:** Zintec



ENCLOSURES

HAWKE ENCLOSURES - PL6 SERIES

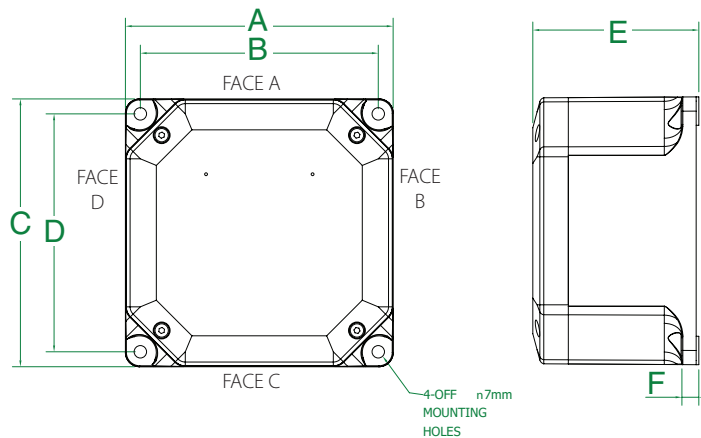
NON-METALLIC JUNCTION BOXES

PL612/PL615/PL620/PL630 DIMENSIONS						
CATALOG NUMBER	A	B	C	D	E	F
PL612	4.72 (120)	4.02 (102)	4.72 (120)	4.02 (102)	2.95 (75)	0.41 (10.5)
PL615	5.94 (151)	5.28 (134)	5.94 (151)	5.28 (134)	3.70 (94)	0.37 (9.5)
PL620	7.94 (201.8)	7.09 (180)	7.94 (201.8)	7.09 (180)	4.92 (125)	0.47 (12)
PL626	10.24 (260)	9.53 (242)	6.30 (160)	5.59 (142)	4.19 (106.5)	0.49 (12.5)
PL630	11.81 (300)	11.02 (280)	11.81 (300)	11.02 (280)	5.00 (127)	0.45 (11.5)

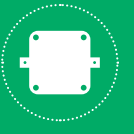
All dimensions in. (mm)

MAXIMUM QUANTITY OF ENTRIES PER FACE									
CATALOG NUMBER	THREAD SIZE	M16/M20	M20/A	M25	M32	M40	M50	M63	M74
PL612	Face A/B/C/D	2	—	1	1	—	—	—	—
PL615	Face A/B/C/D	2	—	2	1	—	—	—	—
PL620	Face A/B/C/D	6	—	4	2	1	1	—	—
PL626	Face B/D	3	—	2	1	—	—	—	—
	Face A/C	9	—	2	1	—	—	—	—
PL630	Face A/B/C/D	10	—	8	3	3	2	2	1

CAUTION: Entry quantities are calculated based on standard gland diameters. Entry quantity may be affected if using accessories (locknuts, washers etc) with large diameters.



HAWKE ENCLOSURES - PL6 SERIES



NON-METALLIC JUNCTION BOXES

PL612 TERMINAL CAPACITY

TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5N	0.5	2.5	440	D	12	1	15	9	17
WDU 2.5	0.5	2.5	690	D	10		17	9	17
UT 2.5	0.14	2.5	690	D	10		15	10	15
WDU 4	0.5	4	690	D	9		22	9	22
UT 4	0.14	4	690	D	9		20	9	20
WDU 6	0.5	6	690	D	6		29	6	29
UT6	0.2	6	690	D	6		28	6	28
WDU 10	1.5	10	690	D	5		40	5	40
UT 10	0.5	10	690	D	5		39	5	39

* Max terminals are split across the quantity of terminal rails

PL615 TERMINAL CAPACITY

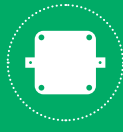
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5	0.5	2.5	690	D/V/H	19	1	14	12	17
UT 2.5	0.14	2.5	690	D/V/H	19		14	16	15
WDU 4	0.5	4	690	D/V/H	16		19	11	22
UT 4	0.14	4	690	D/V/H	15		19	14	20
WDU 6	0.5	6	690	D/V/H	12		27	10	29
UT6	0.2	6	690	D/V/H	11		28	11	28
WDU 10	1.5	10	690	D/V/H	9		38	8	40
UT 10	0.5	10	690	D/V/H	9		39	9	39
WDU 16	1.5	16	690	D/V/H	7		50	6	53
UT 16	1.5	16	690	D/V/H	7		50	6	53

* Max terminals are split across the quantity of terminal rails

PL620 TERMINAL CAPACITY

TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5	0.5	2.5	690	D/V	24	1	14	17	17
UT 2.5	0.14	2.5	690	D/V	26		14	22	15
WDU 4	0.5	4	690	D/V	20		20	16	22
UT 4	0.14	4	690	D/V	21		19	20	20
WDU 6	0.5	6	690	D/V	15		28	14	29
UT6	0.2	6	690	D/V	16		27	15	28
WDU 10	1.5	10	690	D/V	12		40	12	40
UT 10	0.5	10	690	D/V	12		39	12	39
WDU 16	1.5	16	690	D/V	9		53	9	53
UT 16	1.5	16	690	D/V	10		51	9	53
WDU 35	2.5	35	690	D/V	6		80	6	80
UT 35	1.5	35	690	D/V	7		70	7	70
WDU 50N	6	50	690	D/V	5		88	5	88
UKH 50	16	50	690	D/V	5		87	5	87
WDU 70N	10	70	690	D/V	4		117	3	129

* Max terminals are split across the quantity of terminal rails



ENCLOSURES

HAWKE ENCLOSURES - PL6 SERIES

NON-METALLIC JUNCTION BOXES

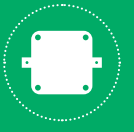
PL626 TERMINAL CAPACITY									
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5	0.5	2.5	690	H	38	1	11	15	17
UT 2.5	0.14	2.5	690	H	41		10	20	15
WDU 4	0.5	4	690	H	32		15	14	22
UT 4	0.14	4.0	690	H	34		14	18	20
WDU 6	0.5	6	690	H	24		21	12	29
UT6	0.2	6	690	H	25		20	13	28
WDU 10	1.5	10	690	H	19		30	10	40
UT 10	0.5	10	690	H	20		29	11	39
WDU 16	1.5	16	690	H	16		38	8	53
UT 16	1.5	16	690	H	17		37	8	53
WDU 35	2.5	35	690	H	12		57	6	80
UT 35	1.5	35	690	H	12		68	11	70

* Max terminals are split across the quantity of terminal rails

PL630 TERMINAL CAPACITY									
TERMINAL TYPE	CONDUCTOR SIZE (MM2)		MAX VOLTS	RAIL ORIENTATION	MAX. PHYSICAL TERMINAL CONTENT			REDUCED TERMINAL CONTENT AT MAX AMPS	
	MIN.	MAX.			TERMINAL QTY	RAIL QTY	AMPS	TERMINAL QTY	AMPS
WDU 2.5	0.5	2.5	690	V/H D	76 55	2 1	9 11	22	17
UT 2.5	0.14	3	690	V/H D	76 53	2 1	9 11	29	15
WDU 4	0.5	4	690	V/H D	64 46	2 1	12 15	20	22
UT 4	0.14	4	690	V/H D	62 44	2 1	13 15	26	20
WDU 6	0.5	6	690	V/H D	48 35	2 1	18 21	18	29
UT6	0	6	690	V/H D	46 33	2 1	18 21	19	28
WDU 10	1.5	10	690	V/H D	36 28	2 1	26 30	15	40
UT 10	0.5	10	690	V/H D	36 26	2 1	26 31	16	39
WDU 16	1.5	16	690	V/H D	30 22	2 1	34 40	12	53
UT 16	1.50	16	690	V/H D	30 22	2 1	34 40	12	53
WDU 35	2.5	35	690	V/H D	22 16	2 1	53 62	9	80
UT 35	1.50	35	690	V/H D	22 16	2 1	61 70	16	70
WDU 50N	6.0	50	690	D	11	1	80	8	88
UKH 50	16.0	50	690	D	11	1	87	11	87
WDU 70N	10.0	70	690	D	11	1	88	5	129

* Max terminals are split across the quantity of terminal rails

ENCLOSURES
HKBX SERIES



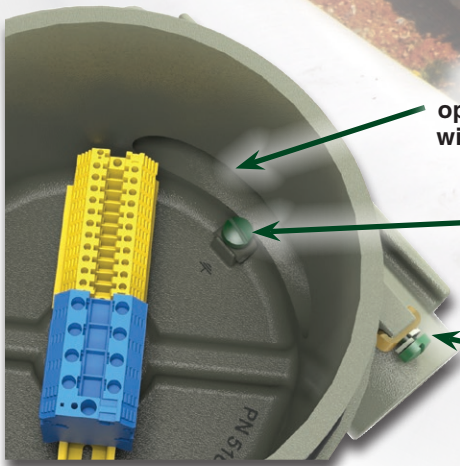
3-5/8" (92mm) diameter viewing window while maintaining the compact body diameter of 5" (127mm)

Smooth die cast finish with gray powder paint for an aesthetically pleasing look to an OEM product – other colors available

Die cast from 413 aluminum alloy, copper free and low magnesium content

Internal pad for additional openings through the back wall can be drilled and tapped: 1/2" NPT or NPSM, 3/4" NPT or NPSM, M20, M25

Large straight internal opening, 4-1/4" (108mm) diameter with a full depth – no wasted space



Large wire way opening for ease of wire pull in the field

Anti-turn internal ground screw assembly

Anti-turn external ground screw assembly

Recessed cross notches for wrenching when required

Large recess grip slots for opening and closing of cover even while wearing heavy gloves

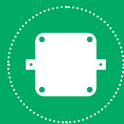
Cover locking set screw standard in all covers. Prevents tampering and unauthorized access to the internal components.

Large "X" pad which will accept any diameter bolt circle

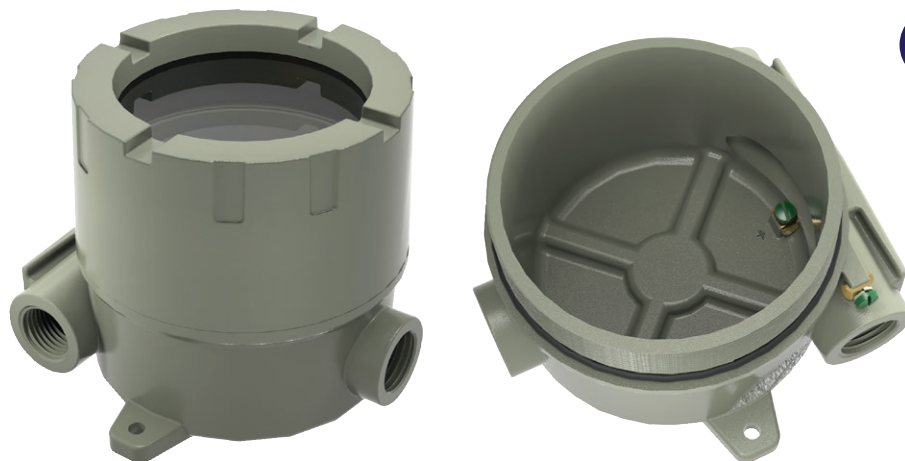
Standard with three 3/4" NPTs openings. Optional sizes of 3/4" NPSM and M25 can be special ordered

O-ring gasket for a Type 3, 4 IP66 environment rating

Mounting lugs with 1/4" (6.3mm) diameter mounting holes



ENCLOSURES HKBX SERIES



HKBX Empty Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups A, B, C, & D

Class I, Zone 1, AEx db IIC

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -60°C to +70°C (UL & CSA)



Files E83969 E150827



File LR11716 - 1750685

ATEX / IEC Ex Certificate



II 2 G D CE 2813

Ex db IIC Gb

Ex tb IIIC Db IP66

Ta = -60°C to +70°C

DEMKO 01ATEX 15742U

IECEx UL 14.0071U

FEATURES-SPECIFICATIONS

Features

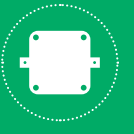
- Explosion/flare proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- ATEX & IEC Ex standard on all assemblies
- Box and covers are die cast from copper-free aluminum
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Large viewing diameter of 3-5/8" (92mm)
- Large 4-1/4" (108mm) diameter internal cover opening with a full depth – no wasted space
- Three 3/4" NPT offset feed-through conduit openings. Optional 3/4" NPSM or M25 openings available.
- Large internal mounting pad supplied in a "X" configuration for the flexibility of adapting to any OEM bolt circle
- Internal and external anti-turn ground (earth) terminals
- Cover with shrouded tamper-resistant set screw
- Recessed cover lugs permit easy removal and tightening. Large recess grip slots for opening and closing of the cover.
- Cast-on mounting lugs with 1/4" (6.3mm) diameter mounting holes
- Same mounting foot print as the legacy HKB Series boxes

Materials

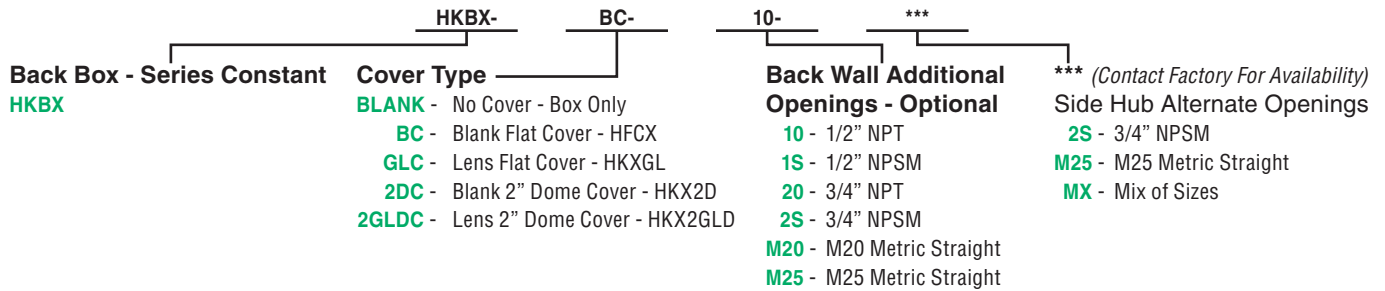
- **BOX AND COVER:** die cast from 413 copper-free aluminum, containing less than 1/10 of 1% alloy and less than 6% magnesium
- **O-RING GASKET NEOPRENE - 70** durometer nitrile compound
- **GROUND (EARTH) SCREW - 316** stainless steel with green plating
- **ALLEN HEAD COVER LOCKING SCREW - 316** stainless steel
- **GLASS LENS - 3/8"** (9.5mm) thick tempered float glass
- **FINISH - silver powder epoxy paint** electrostatically applied
- Special colors available in quantity

Factory / Field Modifications

- **UL AND CSA APPROVALS** allow for the field drilling and tapping of blind holes into the internal "X" ribs for mounting of customer equipment. The internal pad allows for the field drilling and tapping for one additional opening, 1/2" NPT or NPSM, 3/4" NPT or NPSM, M20 or M25.
- **ATEX IEC EX APPROVALS** all machining modifications must be done by the factory



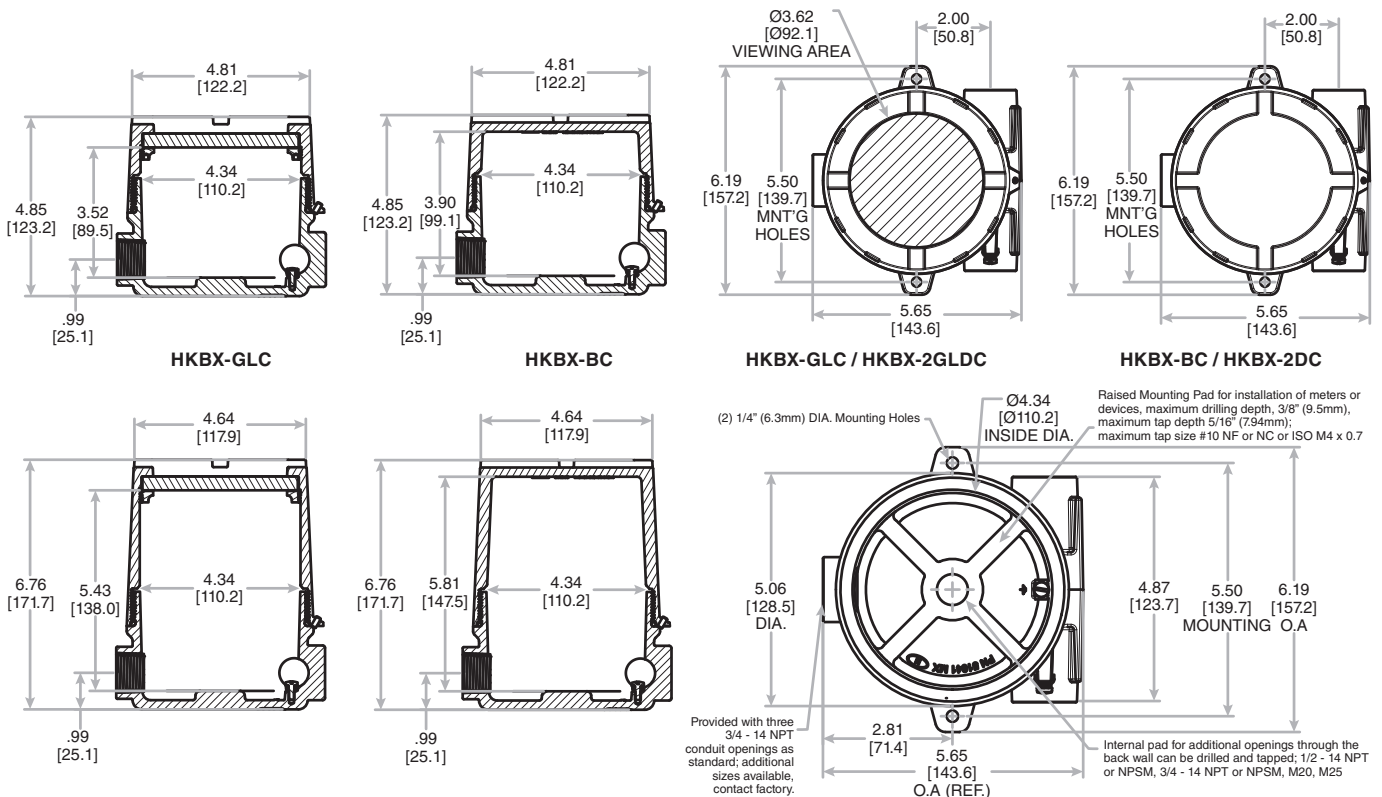
CATALOG LOGIC

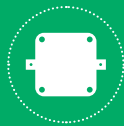


HKBX COMPONENT AND ASSEMBLY NUMBERS	
CATALOG NUMBER	ITEM DESCRIPTION
HKBX	Box only 4-1/4" (108mm) internal diameter opening
HFCX	Flat cover 4-1/4" (108mm) internal diameter opening
HKXGL	Lens cover 3-5/8" (92mm) diameter viewing
HKX2D	Dome 2" cover 4-1/4" (108mm) internal diameter
HKX2GLD	Dome 2" lens cover 3-5/8" (92mm) diameter viewing
HKBX-BC	Box with flat cover 4-1/4" (108mm) internal diameter QUAD Approvals
HKBX-GLC	Box with lens cover 3-5/8" (92mm) viewing QUAD Approvals
HKBX-2DC	Box with 2" dome cover 4-1/4" (108mm) internal diameter QUAD Approvals
HKBX-2GLDC	Box with 2" dome lens cover 3-5/8" (92mm) viewing QUAD Approvals
HKBX-GRD	HKBX replacement ground kit
15722JABB	HKBX replacement "O" ring

Note: The HKBX covers are non-interchangeable with the legacy HKB's covers.

HKBX FACTORY MODIFICATIONS	
OPTIONAL FACTORY MACHINING	
CATALOG SUFFIX	MODIFICATION DESCRIPTION
-10	1/2" NPT in the back wall
-1S	1/2" NPSM in the back wall
-20	3/4" NPT in the back wall
-2S	3/4" NPSM in the back wall
-2SS	3/4" NPSM in the side hubs <i>Consult Factory for Pricing</i>
-M20	M20 in the back wall
-M25	M25 in the back wall
-M25S	M25 in the side hubs <i>Consult Factory for Pricing</i>
-MX	Mix of sizes and locations <i>Consult Factory for Pricing</i>

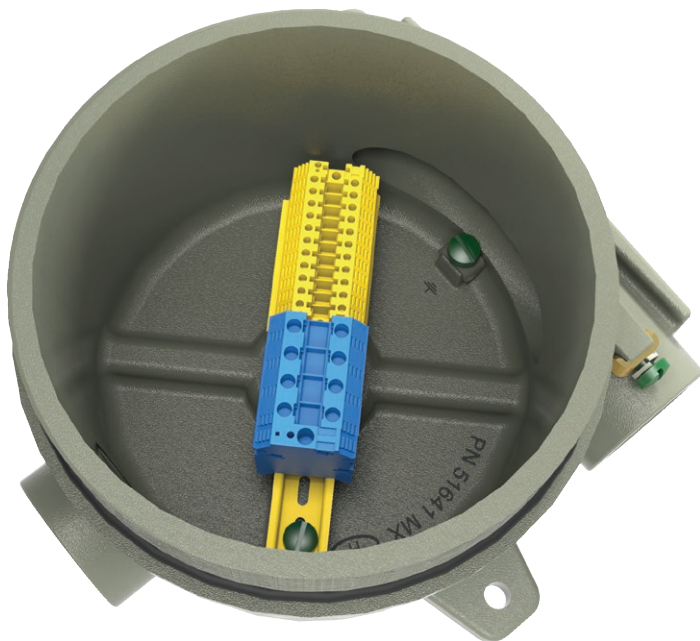




ENCLOSURES

HKBX-TB SERIES

HKBX TERMINAL BOX - UL / CSA / ATEX / IEC EX



HKBX-TB Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups A, B, C, & D

Class I, Zone 1, AEx db IIC

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -60°C to +70°C

UL File E83969

CSA File LR11716 - 1750685

ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex db IIC T4...T3 Gb

Ex eb IIC T4...T3 Gb

Ex tb IIIC T110°C...T140°C IP66

Ta = -60°C to +70°C

DEMKO 06ATEX 141023X

DEMKO 06ATEX 0521635X

IECEX UL 14.0060X

IECEX UL 14.0069X

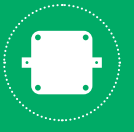
FEATURES-SPECIFICATIONS

Features

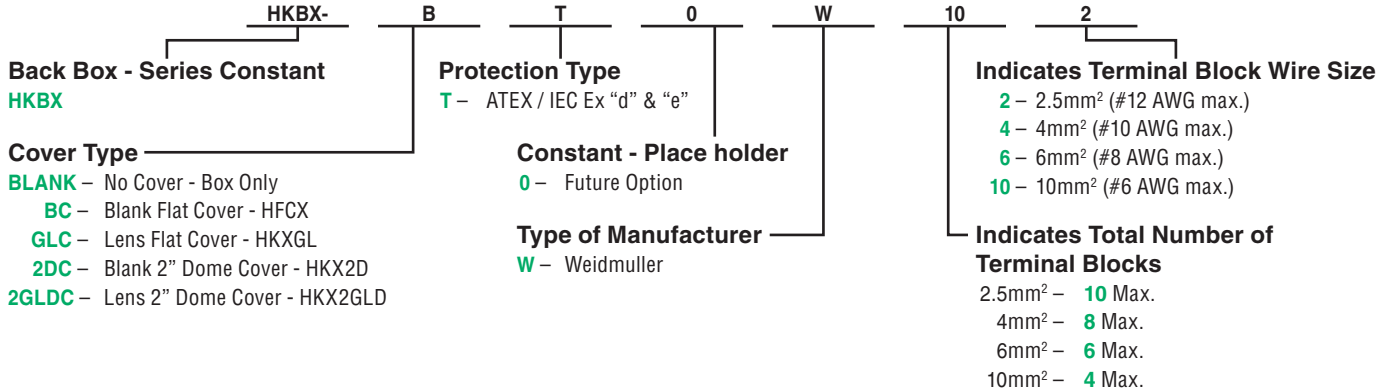
- Maximum (10) 2.5mm² terminal blocks
- Maximum 630VAC, 60 AMPs
- Enclosures are explosion/flare proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- ATEX & IEC Ex standard on all assemblies
- Box and cover without ATEX IEC Ex can be sold separately
- Box and covers are die cast from copper-free aluminum
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Large 4-1/4" (108mm) diameter internal cover opening with a full depth – no wasted space
- Three 3/4" NPT offset feed-through conduit openings. Optional 3/4" NPSM or M25 openings available.
- Large internal mounting pad supplied in a "X" configuration for the flexibility of adapting to any OEM bolt circle
- Internal and external anti-turn ground (earth) terminals
- Cover with shrouded tamper-resistant set screw
- Recessed cover lugs permit easy removal and tightening. Large recess grip slots for opening and closing of the cover.
- Cast-on mounting lugs with 1/4" (6.3mm) diameter mounting holes
- Same mounting foot print as the legacy HKB Series boxes

Materials

- **BOX AND COVER:** die cast from 413 copper-free aluminum, containing less than 1/10 of 1% alloy and less than 6% magnesium
- **O-RING GASKET NEOPRENE** - 70 durometer nitrile compound
- **GROUND (EARTH) SCREW** - 316 stainless steel with green plating.
- **ALLEN HEAD COVER LOCKING SCREW** - 316 stainless steel
- **FINISH** - silver powder epoxy paint electrostatically applied
- Special colors available in quantity



CATALOG LOGIC



REPLACEMENT COMPONENTS	
CATALOG NUMBER	DESCRIPTIONS
HKBX-GRD	HKBX replacement ground kit
15722AAAB	HKBX replacement "O" ring

Note: The HKBX covers are non-interchangeable with the legacy HKB's covers.

HKBX FACTORY MODIFICATIONS	
OPTIONAL FACTORY MACHINING	
CATALOG SUFFIX	MODIFICATION DESCRIPTION
-2SS	3/4" NPSM in the side hubs Consult Factory for Pricing
-M25S	M25 in the side hubs Consult Factory for Pricing
-MX	Mix of sizes and locations Consult Factory for Pricing



ENCLOSURES HK/2HK SERIES

INSTRUMENT / DEVICE ENCLOSURES



HK



2HK



HKB
Empty Enclosure

NEC / CEC Certifications

- Class I, Div. 1 & 2, Groups A, B, C, & D
- Class I, Zone 1, AEx db IIC
- Class II, Div. 1 & 2, Groups E, F, & G
- Class III
- Type 3, 4, 4X
- Ta = -60°C to +70°C (UL & CSA)
- Ta = -20°C to +40°C (FM)
- Files E83969 / E150827
- File LR11716 - 1750685
- File 1W1R4-RE



ATEX / IEC Ex Certificate

II 2 G D CE 2813

- Ex db IIC Gb
- Ex tb IIIC Db IP66
- Ta = -60°C to +70°C
- DEMKO 01ATEX 15742U
- IECEX UL 14.0071U

Gas Group "A" certified by FM only, add suffix "-GA". Seal within 6"

For Group BCD seal within 18" of the box.
For Ex db IIC seal adjacent to the box.

FEATURES-SPECIFICATIONS

Features

- Explosion/flame proof, dust/ignition proof, weather/hose-down proof and tamper resistant
- Boxes and covers are cast from a copper-free aluminum alloy
- Cast stainless steel box, flat, and lens cover available (HKSB-BC + HKSB-GLC)
- Neoprene o-ring for water resistance in Type 3, 4 / IP66 conditions
- Three box styles available: HKB, HKBD single cover design and the 2HKB double cover design. 2HKB enclosure has two separate chambers for isolation between power and instrument.
- HKB, HKBD box has offset feed-thru conduit openings (3/4" NPT) for maximum use of interior volume
- 2HKB box has offset feed-thru conduit openings (3/4" NPT) on power side and one (3/4" NPT) on bottom instrument side
- Interior mounting pad (HKB, HKBD) in an "X" configuration for flexibility of adapting to OEM bolt circle
- Location of the internal ground screw boss does not interfere with the mounting of the instrument or device

- Eight different cover styles are available: standard flat cover, standard glass lens cover, 1" dome cover, 1" dome lens cover, 2" dome cover, 2" glass lens dome cover, 4" dome cover, and 4" dome lens cover.
- All covers have shrouded tamper-resistant set screws as standard which can help to combat excessive vibration in rugged settings
- Lugs on cover permit easy removal and tightening

Materials

- Boxes and covers – copper-free aluminum (less than 1/10 of 1%)
- HKSB series is 316 cast stainless steel

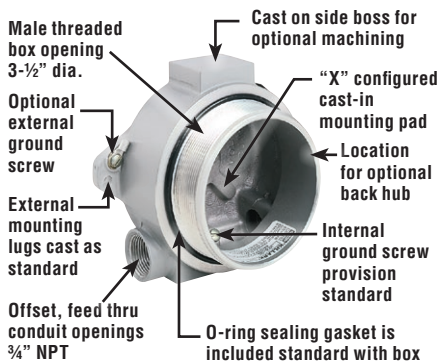
- O-ring sealing gasket – Neoprene rubber
- Ground screws – zinc plated steel with green dye (stainless steel on HKSB)
- Allen head cover screw – cadmium plated steel (stainless steel on HKSB)
- Glass lens – 3/8" thick tempered glass
- Finish – silver powder epoxy paint, electrostatically applied
- Special colors available in quantity

2HKB Series Boxes

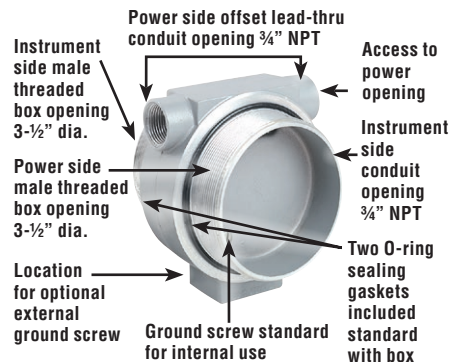
- The wall that separates the instrument side from the power side can be machined for slots or holes up to a maximum of two slots 5/16" by 1-1/2".

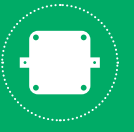
Submit drawings for machining requirements to Killark.

HK Design Features



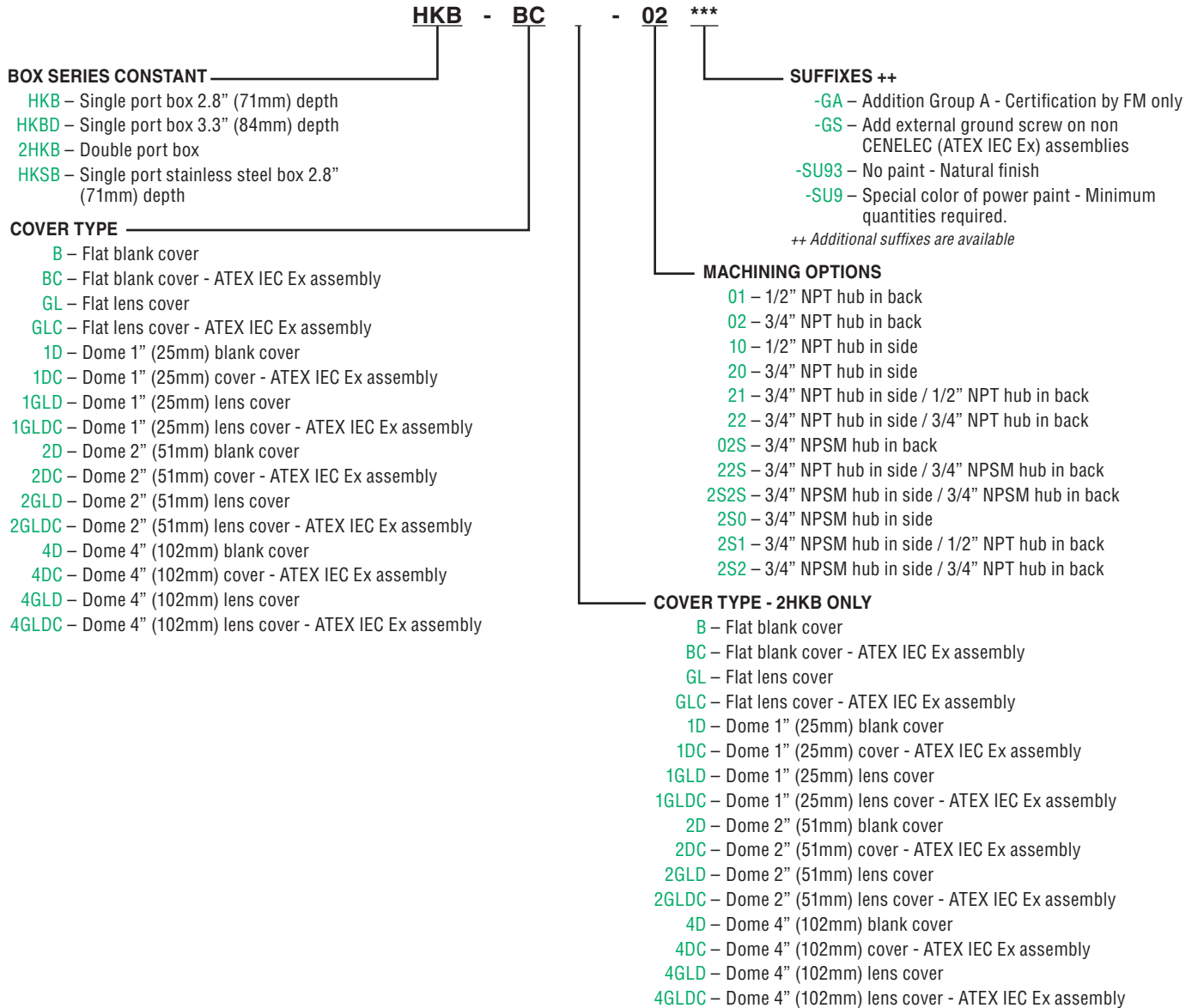
2HK Design Features

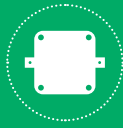




INSTRUMENT / DEVICE ENCLOSURES

CATALOG LOGIC





ENCLOSURES HK/2HK SERIES

INSTRUMENT / DEVICE ENCLOSURES BOXES



FLAT AND 1" DOME COVERS



2" AND 4" DOME COVERS



FEATURES

2HKB Series Boxes

The wall that separates the instrument side from the power side can be machined for slots or holes up to a maximum of two slots $\frac{5}{16}$ " by $1\frac{1}{2}$ ". Submit drawings for machining requirements to Killark.

Factory Modifications

Approvals allow for factory or field modifications on HKB box for drilling and tapping conduit openings on side or back of enclosure without voiding UL-CSA-FM approvals. Internal mounting pad holes on "X" configured boss can be factory added by drilling from inside of box without piercing the bottom of enclosures. Assemblies with ATEX/IEC Ex approvals must be factory modified in order to comply with certifications.

Note: The HKB boxes and covers are not interchangeable with the HKBX series enclosures.

HK ASSEMBLED PARTS

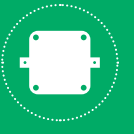
CATALOG NUMBER (CAST ALUMINUM)					
HKB BOX AND COVERS		HKB BOX & COVERS	2HKB BOX W/ BLANK COVER ON POWER SIDE & OPTIONAL COVER ON INSTRUMENT SIDE		COVER TYPE
UL-CSA-FM APPROVED	GENELEC UL-CSA-FM APPROVED	UL-CSA-FM APPROVED	(UL-CSA-FM)	GENELEC UL-CSA-FM APPROVED	
HKB-B	HKB-BC	HKBD-B	2HKB-B-B	2HKB-BC-BC	Standard flat
HKB-2D	HKB-2DC	HKBD-2D	2HKB-B-2D	2HKB-BC-2DC	2" Dome
HKB-4D	HKB-4DC	HKBD-4D	2HKB-B-4D	2HKB-BC-4DC	4" Dome
HKB-GL	HKB-GLC	HKBD-GL	2HKB-B-GL	2HKB-BC-GLC	Lens
HKB-2GLD	HKB-2GLDC	HKBD-2GLD	2HKB-B-2GLD	2HKB-BC-2GLDC	2" Dome lens

HK COMPONENT PARTS

CATALOG NUMBER	DESCRIPTION
HKB	Single cover box only
HKBD	Single deep box only
2HKB	Double cover Box only
HFC	Flat cover
HKGL	Lens cover
HK1D	1" Dome cover
HK1GLD	1" Dome lens cover
HK2D	2" Dome cover
HK4D	4" Dome cover
HK2GLD	2" Dome lens cover
HK4GLD	4" Dome lens cover
15722LABB	Rep. "O" Ring Gasket

HKSB STAINLESS STEEL ASSEMBLED PARTS

HKSB BOX AND COVERS GENELEC UL-CSA-FM APPROVED	COVER TYPE
HKSB-BC	Standard flat
HKSB-GLC	Lens



INSTRUMENT / DEVICE ENCLOSURES



HK

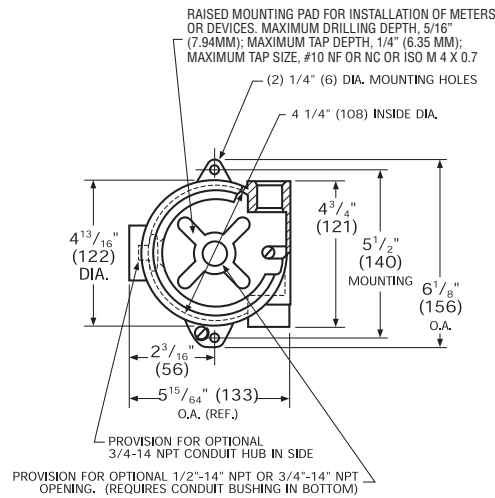


HKSB - Stainless Steel

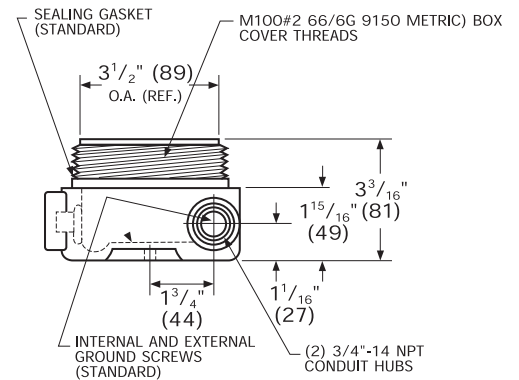
Dimensions

Note: Add 1/2" to all depth dimensions when using HKBD Deep Box.

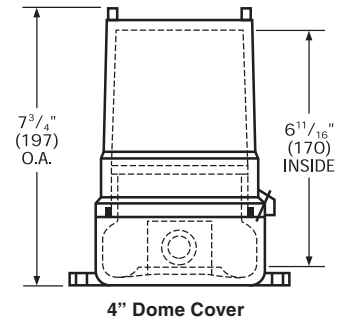
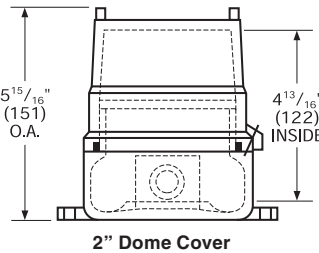
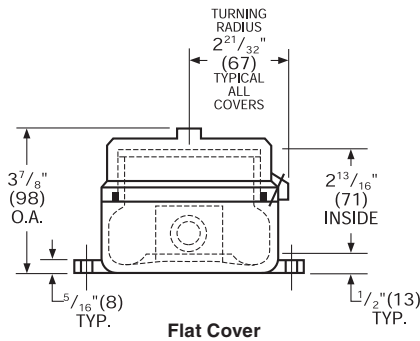
HKBD volume = 33 cu.in.



HKB Volume: 31 cu. in.



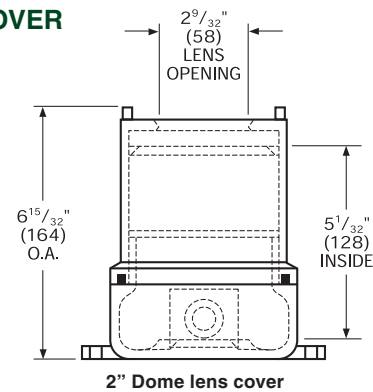
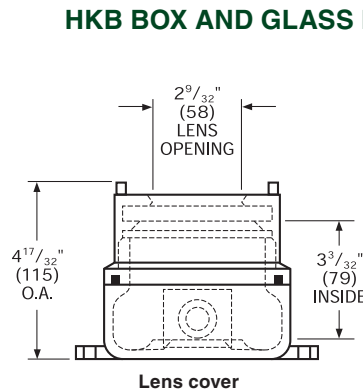
HKB BOX AND BLANK COVER



For HK1GLD (1" Dome Lens Cover), add 1" to lens cover verticle height dimensions

HKB BOX AND GLASS LENS COVER

For HK4GLD (4" Dome Lens Cover), add 2" to 2 dome lens cover verticle height dimensions





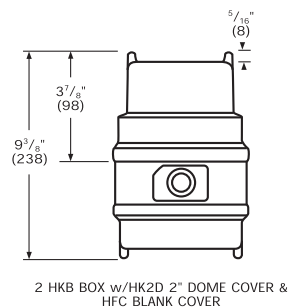
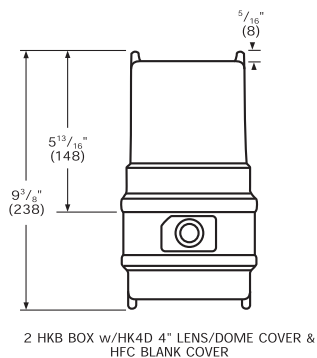
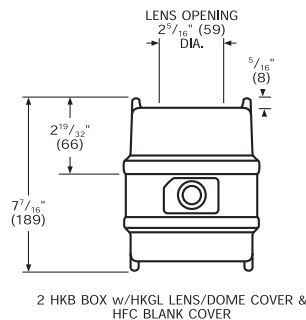
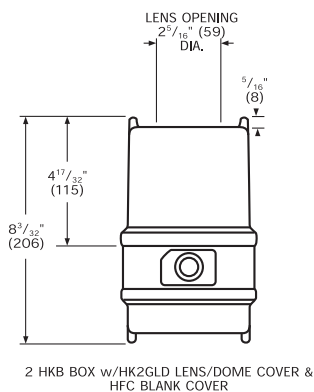
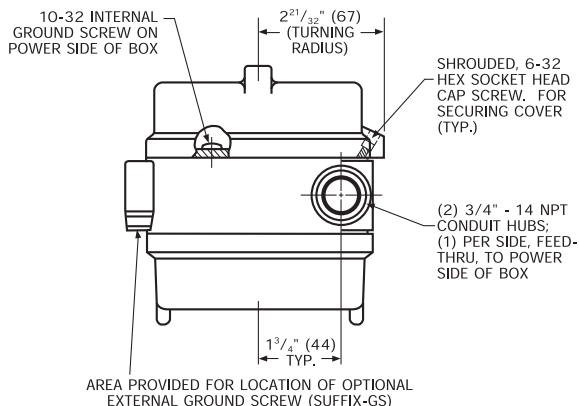
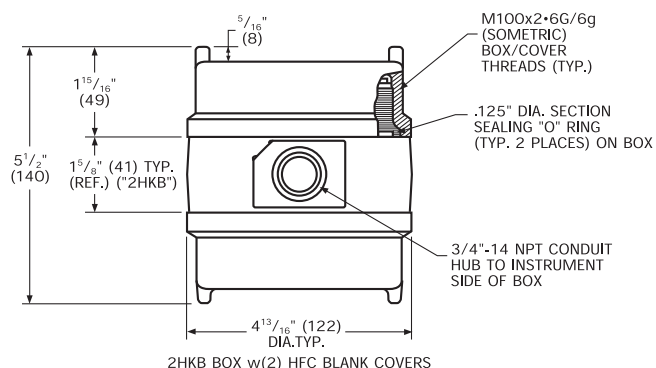
ENCLOSURES 2HK SERIES

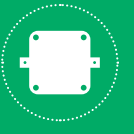
INSTRUMENT / DEVICE ENCLOSURES



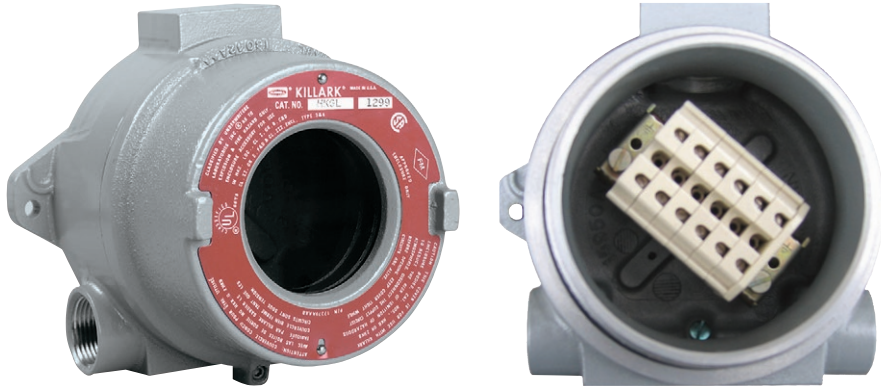
2HK

Dimensions





HK TERMINAL BOX - UL / CSA / ATEX / IEC EX



HKB-TB
Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups A, B, C, & D
Class I, Zone 1, AEx db IIC
Class II, Div. 1 & 2, Groups E, F, & G
Class III
Type 3, 4, 4X

Ta = -60°C to +70°C (UL & CSA)
Ta = -20°C to +40°C (FM)

File E83969
File LR11716 - 1750685
File 1W1R4-RE



ATEX / IEC Ex Certificate

II 2 G D CE 2813
Ex db IIC T4...T3 Gb
Ex eb IIC T4...T3 Gb
Ex tb IIIC T110°C...T140°C IP66
Ta = -60°C to +70°C
DEMKO 06ATEX 141023X
DEMKO 06ATEX 0521635X
IECEX UL 14.0060X
IECEX UL 14.0069X

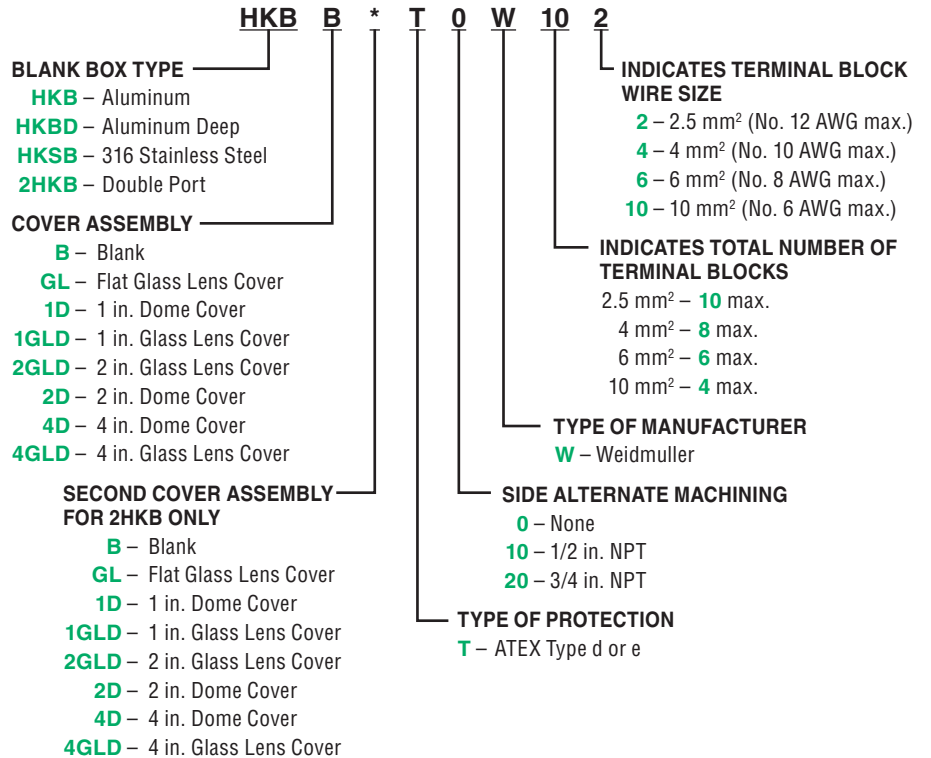
FEATURES-SPECIFICATIONS

UL DEMKO
Increased Safety/Flame Proof
Terminal Enclosure

Features

- Select from 4 body types and 8 different covers
- Single port box provided with two 3/4" NPT standard openings. One additional 1/2" or 3/4" NPT can be added.
- Double port has three 3/4" NPT's as standard
- Maximum (10) 2.5mm² blocks. Quantity doubles for 2HKB's.
- 630 Volts max. and 60 Amps max.
- Group A FM only on HK single cover box.
- Seal within 18" of enclosure for Group BCD and within 6" for group A in Class and Division applications.
- Seal immediately adjacent to enclosure for EX db IIC applications.

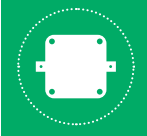
Catalog Number Logic
HK Series ATEX/IEC Ex Terminal Box



ORDERING EXAMPLE: HKB-B-T1W102

DESCRIPTION: HKB box with blank cover, with 1/2" NPT (in the side) pad, with qty. ten 2.5mm² Weidmuller terminal blocks.

DIMENSIONS: See the HKB empty enclosure section at the end of this section.

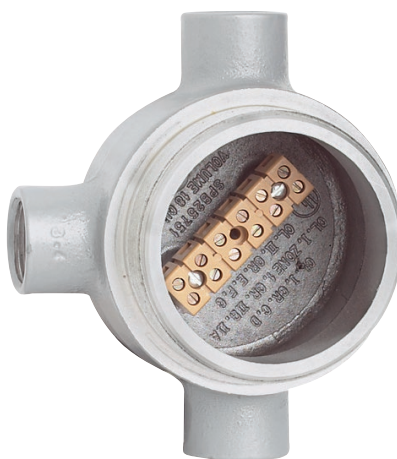


ENCLOSURES
GE SERIES

ALUMINUM OUTLET BODIES WITH TERMINAL BLOCK - UL / CSA



GECTT-2-6TB



GEC-6TB
Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D
Class I, Zone 1 & 2

Groups IIB+H2, IIA

Class II, Div. 1 & 2, Groups E, F, & G
Class III

Type 3, 4, 4X

Ta = -25°C to +40°C (UL)

Ta = -50°C to +40°C (CSA)



File E10514



File LR11716

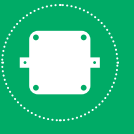
FEATURES-SPECIFICATIONS

Features

- Water shedding cover – suitable for wet locations
- External cover threads on body protect conductors from damage during pulling
- No pinching of conductors during cover installation
- Three different hub arrangements
- Taper threaded hubs to provide ground continuity
- Smooth integral hub bushing to protect conductor insulation when pulling
- Weather-resistant finish
- Green ground screw standard in all boxes
- Weidmuller 6 point MK3 terminal block is mounted inside box on raised pads
- Type 4 “O” Ring Standard
- Terminal rated 600V UL / 300V CSA / 20 AMP for wire size #22 – 12AWG
- Hub type XTF furnished with mounting flange

Materials

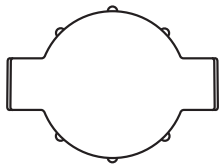
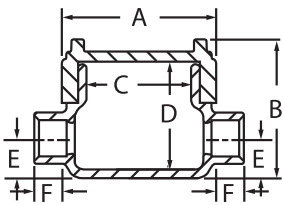
- Body and cover are copper-free aluminum (less than 1/10 of 1%)
- **FINISH** – Electrostatically applied powder coating



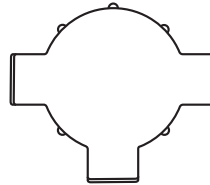
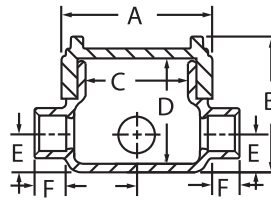
GE SERIES OUTLET BOX WITH 6 POINT TERMINAL BLOCK

HUB TYPE	CATALOG NUMBER	HUB SIZE	A	B	C	D	E	F	COVER OPENING	VOLUME CU. IN./ML
C	GECCT-2-6TB	3/4"	3-11/16" (94)	3-5/8" (92)	2-11/16" (68)	2-3/4" (70)	1" (25)	13/16" (21)	2-11/16" (68)	19 (311)
T	GECTT-2-6TB	3/4"								
X	GECXT-2-6TB	3/4"								
XTF	GECXTF-2-6TB	3/4"					3/4" (19)			

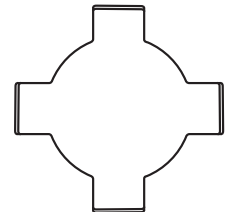
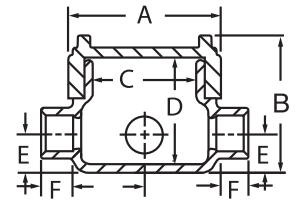
Dimensions in. (mm)



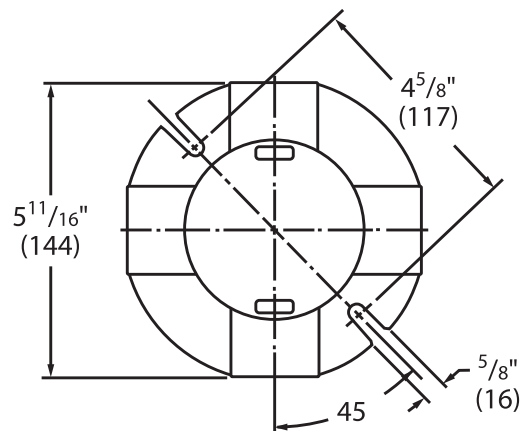
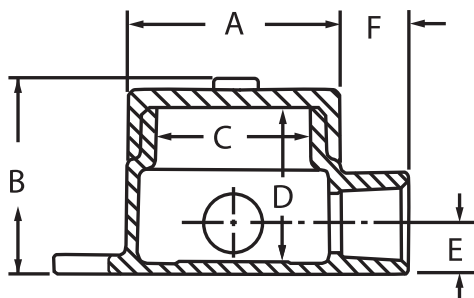
C Type



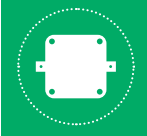
T Type



X Type

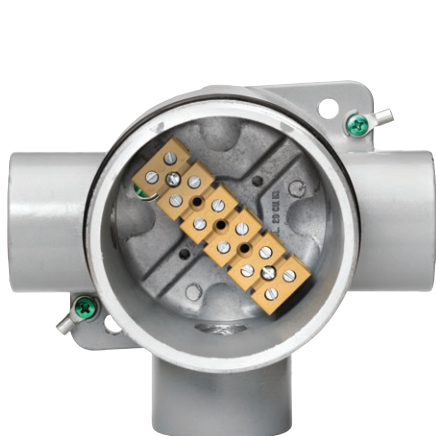


XTF Type
With Mounting Flange



ENCLOSURES
GEB SERIES

STOCK TERMINAL BOXES - UL / CSA / ATEX / IEC EX WITH **PANEL MOUNTED** TERMINALS



GEBT



GEBX



GEB-TB
Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D
Class I Zone 1 IIB+H2 Gb
Class II, Div. 1 & 2, Groups E, F, & G
Class III

Type 3, 4, 4X

Ta = -25°C to +40°C

UL Ta = -50°C to +40°C

File E83969

Certificate LR11716 - 1820607

ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex d IIC T* Gb

Ex tb IIIC T**C Db IP66

Service Temperature -40°C to +163°C

Sira 12ATEX1244

IECEX SIR 12.0107

FEATURES-SPECIFICATIONS

Features

- Cover o-ring supplied as standard for Type 4X and IP66 applications
- Available in 3 configurations with either 3/4" or 1" NPT threaded hubs providing ground continuity
- Smooth integral hub bushing to protect conductor insulation when pulling
- Also available in M20 through M50 metric sizes
- No pinching of conductors during cover installation
- Three options of terminal blocks
- One internal and two external grounding (earthing) screws
- Lugs on cover for easy removal and tightening

Materials

- Box and cover: Copper free aluminum (less than 1/10 of 1%)
- Finish: Electrostatically applied powder coating – Grey
- O-Ring Gasket: Nitrile compound
- Stainless steel, tamper-proof locking set screw in cover

Terminal Blocks Specifications

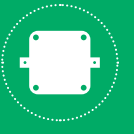
8TBMK: Weidmuller® MK3/8 Qty 8 points
UL = 600VAC, 5AMP, #22 to #12 AWG
CSA = 300VAC, 25AMP, #22 to #12 AWG
IEC = 400VAC, 24AMP, 2.5mm²

6TBMK: Weidmuller® MK6/6 Qty 6 points
UL = 300VAC, 20AMP, #22 to #10 AWG
CSA = 300VAC, 40AMP, #22 to #10 AWG
IEC = 490VAC, 41AMP, 6mm²

10TBZD: Weidmuller® ZDUB2.5 Qty 10 points
UL = 600VAC, 20AMP, #26 to #12 AWG
CSA = 600VAC, 25AMP, #26 to #12 AWG
IEC = 690VAC, 24AMP, 2.5mm²

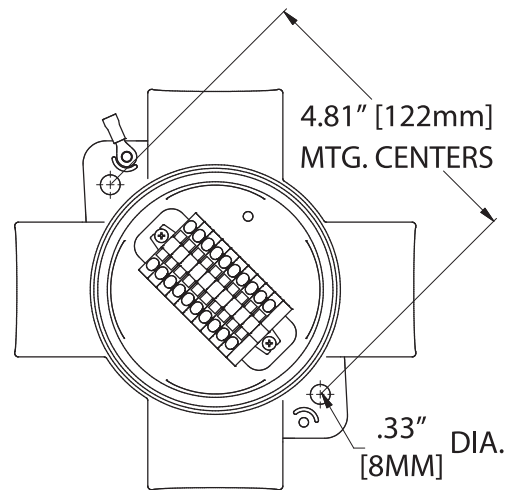
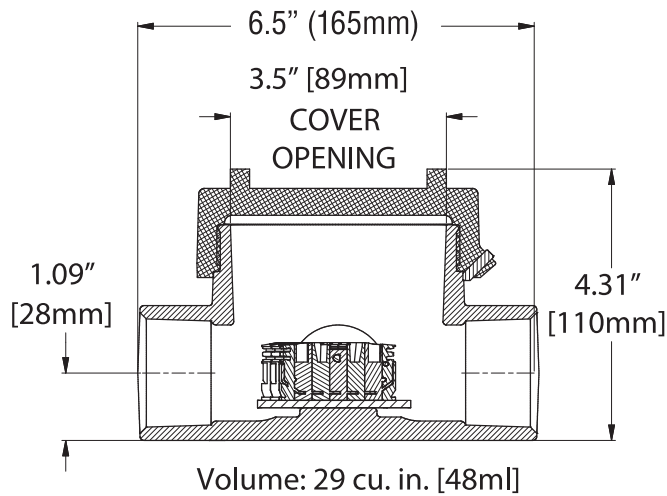
*T Codes Ratings / Wattage Input

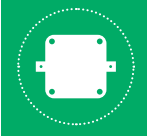
- 20 Watts of Power
 - Ta 48°C = T6 / T85°C
 - Ta 63°C = T5 / T100°C
 - Ta 98°C = T4 / T135°C
 - Ta 163°C = T3 / T200°C
- 30 Watts of Power
 - Ta 50°C = T5 / T100°C
 - Ta 85°C = T4 / T135°C
 - Ta 150°C = T3 / T200°C
- 40 Watts of Power
 - Ta 38°C = T5 / T100°C
 - Ta 73°C = T4 / T135°C
 - Ta 138°C = T3 / T200°C



STOCK TERMINAL BOXES - UL / CSA / ATEX / IEC EX WITH **PANEL MOUNTED** TERMINALS

HUB TYPE	CATALOG NUMBER	HUB SIZE	CATALOG NUMBER	HUB SIZE
C	GEBX-2-8TBMK-EX	3/4"	GEBX-3-8TBMK-EX	1"
	GEBX-2-6TBMK-EX		GEBX-3-6TBMK-EX	
	GEBX-2-10TBZD-EX		GEBX-3-10TBZD-EX	
T	GEBT-2-8TBMK-EX	3/4"	GEBT-3-8TBMK-EX	1"
	GEBT-2-6TBMK-EX		GEBT-3-6TBMK-EX	
	GEBT-2-10TBZD-EX		GEBT-3-10TBZD-EX	
X	GEBX-2-8TBMK-EX	3/4"	GEBX-3-8TBMK-EX	1"
	GEBX-2-6TBMK-EX		GEBX-3-6TBMK-EX	
	GEBX-2-10TBZD-EX		GEBX-3-10TBZD-EX	



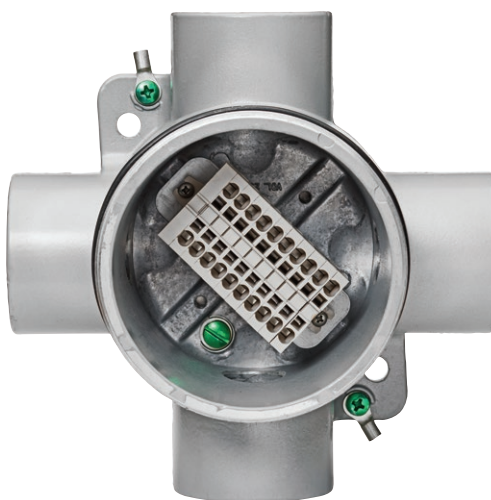


ENCLOSURES
GEB SERIES

TERMINAL BOXES - UL / CSA / ATEX / IEC EX CONFIGURED **PANEL MOUNTED TERMINALS**



GEB-C Open



GEB-X Open



GEB-TB
Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I Zone 1 IIB+H2 Gb

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +40°C

Ta = -50°C to +40°C



File E83969



Certificate LR11716 - 1820607



ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex d IIC T* Gb

Ex tb IIIC T***C Db IP66

Service Temperature -40°C to +163°C

Sira 12ATEX1244

IECEX SIR 12.0107

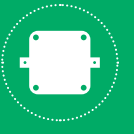
FEATURES-SPECIFICATIONS

Features

- Cover o-ring supplied as standard for Type 4X and IP66 applications
- Available in 4 configurations with either 3/4" or 1" NPT threaded hubs providing ground continuity
- Smooth integral hub bushing to protect conductor insulation when pulling
- Also available in M20 through M50 metric sizes
- External cover threads on the body protects conductors from damages during pulling
- No pinching of conductors during cover installation
- Two terminal block manufacturers to choose from: Weidmuller® and ABB®
- Three options of terminal blocks
- One internal and two external grounding (earthing) screws
- Lugs on cover for easy removal and tightening

Materials

- Box and cover: Copper free aluminum (less than 1/10 of 1%)
- Finish: Electrostatically applied powder coating – Grey
- O-Ring Gasket: Nitrile compound
- Stainless steel, tamper-proof locking set screw in cover



Terminal Blocks Specifications

8TBMK: Weidmuller® MK3/8 Qty 8 points
UL = 600VAC, 5AMP, #22 to #12 AWG
CSA = 300VAC, 25AMP, #22 to #12 AWG
IEC = 400VAC, 24AMP, 2.5mm²

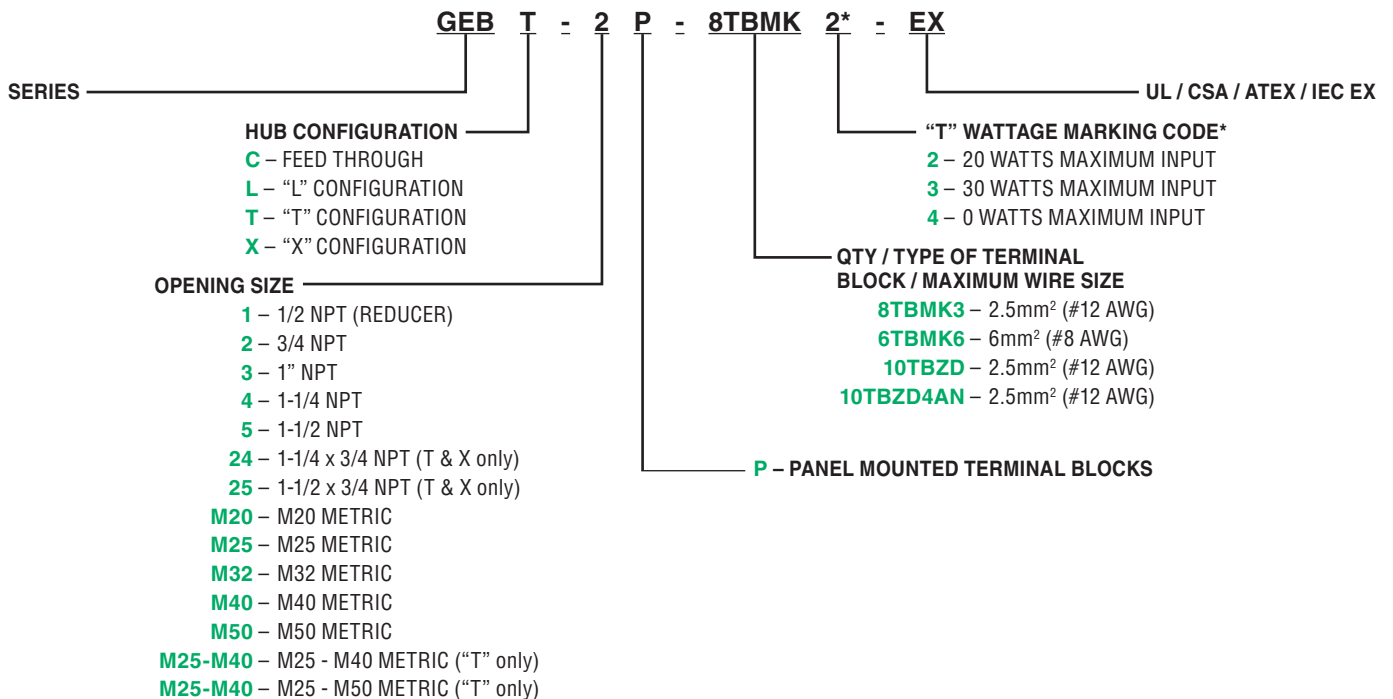
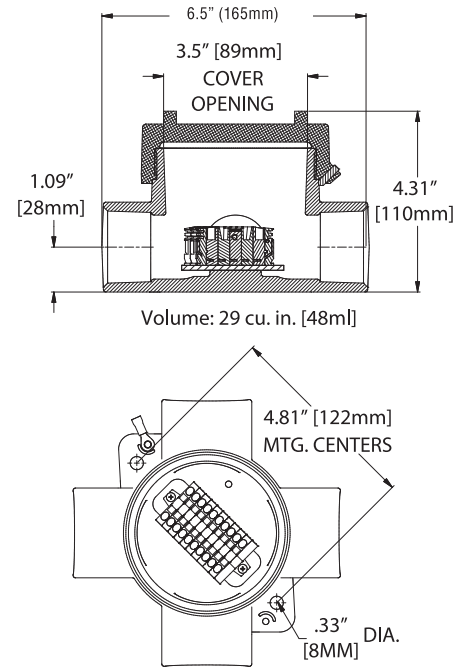
6TBMK: Weidmuller® MK6/6 Qty 6 points
UL = 300VAC, 20AMP, #22 to #10 AWG
CSA = 300VAC, 40AMP, #22 to #10 AWG
IEC = 690VAC, 41AMP, 6mm²

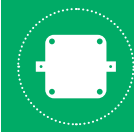
10TBZD: Weidmuller® ZDUB2.5 Qty 10 points
UL = 600VAC, 20AMP, #26 to #12 AWG
CSA = 600VAC, 25AMP, #26 to #12 AWG
IEC = 490VAC, 24AMP, 2.5mm²

10TBZD4AN: Weidmuller® ZDUB2.5/4AN/
DM 4 Connections Qty 10 points
UL = 600VAC, 20AMP, #26 to #12 AWG
CSA = 600VAC, 25AMP, #26 to #12 AWG
IEC = 690VAC, 24AMP, 2.5mm²

***T Codes Ratings / Wattage Input**

- 20 Watts of Power
Ta 48°C = T6 / T85°C
Ta 63°C = T5 / T100°C
Ta 98°C = T4 / T135°C
Ta 163°C = T3 / T200°C
- 30 Watts of Power
Ta 50°C = T5 / T100°C
Ta 85°C = T4 / T135°C
Ta 150°C = T3 / T200°C
- 40 Watts of Power
Ta 38°C = T5 / T100°C
Ta 73°C = T4 / T135°C
Ta 138°C = T3 / T200°C





ENCLOSURES
GEB SERIES

TERMINAL BOXES - UL / CSA / ATEX / IEC EX **DIN RAIL MOUNTED TERMINALS**



GEBX



GEB-TB
Terminal Box

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D
Class I Zone 1 IIB+H2 Gb

Class II, Div. 1 & 2, Groups E, F, & G
Class III

Type 3, 4, 4X

Ta = -25°C to +40°C

Ta = -50°C to +40°C



File E83969



Certificate LR11716 - 1820607



ATEX / IEC Ex Certificate

II 2 G D CE 2813

Ex d IIC T* Gb

Ex tb IIIC T**C Db IP66

Service Temperature -40°C to +163°C

Sira 12ATEX1244

IECEx SIR 12.0107

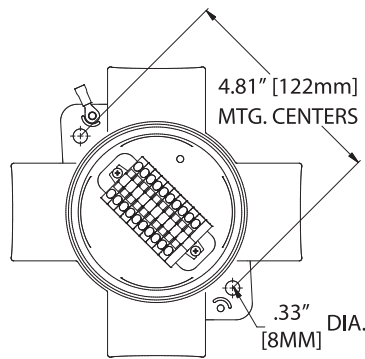
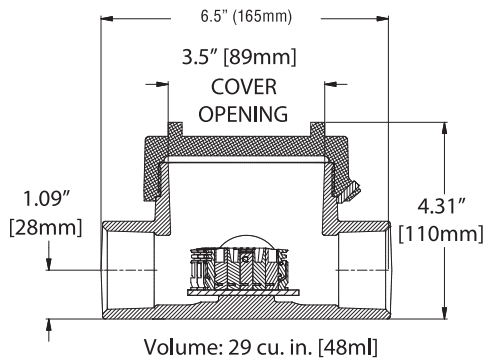
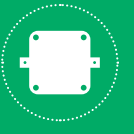
FEATURES-SPECIFICATIONS

Features

- Cover o-ring supplied as standard for Type 4X and IP66 applications
- Available in 4 configurations with either 3/4" or 1" NPT threaded hubs providing ground continuity
- Smooth integral hub bushing to protect conductor insulation when pulling
- Also available in M20 through M50 metric sizes
- External cover threads on the body protect conductors from damage during pulling
- No pinching of conductors during cover installation
- Two terminal block manufacturers to choose from: Weidmuller® and ABB®
- Three options of terminal blocks to select from
- One internal and two external grounding (earthing) screws.
- Lugs on cover for easy removal and tightening
- Available with SKK 4mm² blocks up to qty 6. The SKK are rated up to 250°C continuous service.

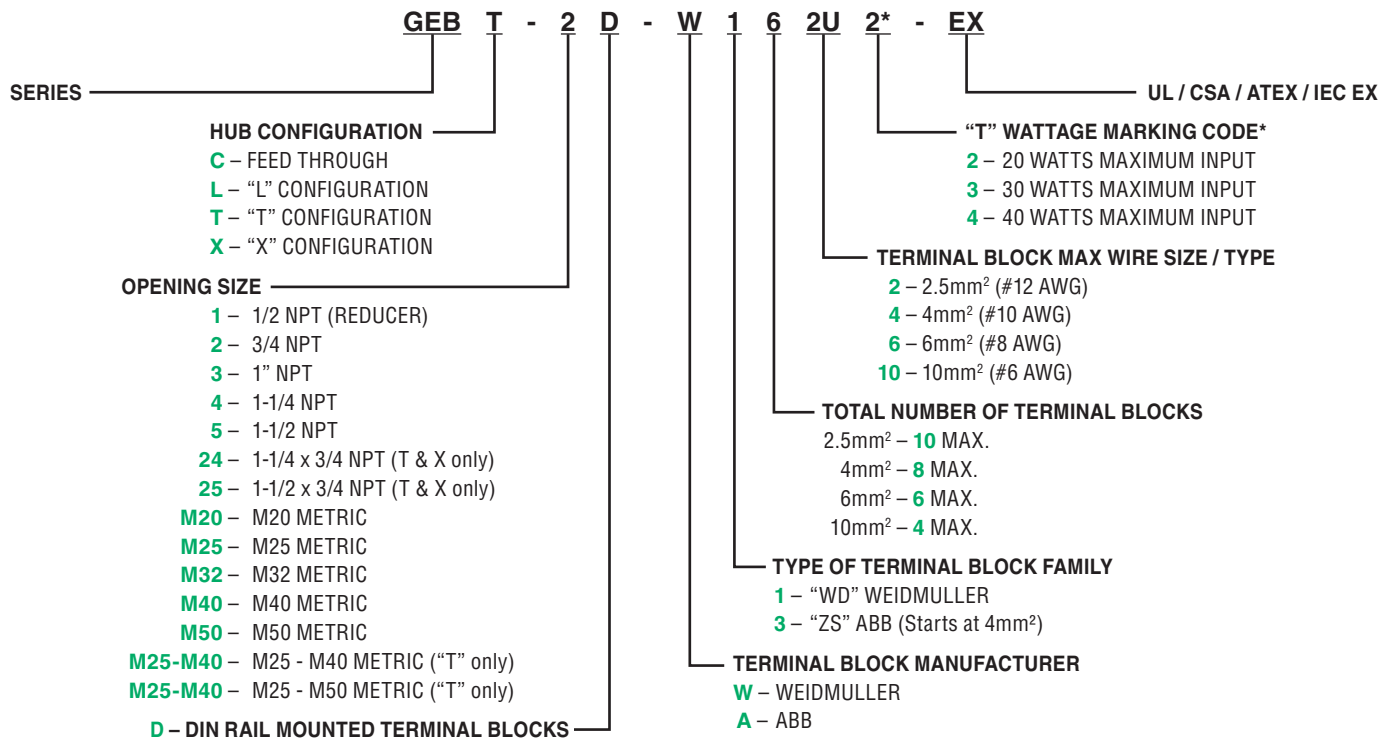
Materials

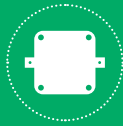
- Box and cover: Copper free aluminum (less than 1/10 of 1%)
- Finish: Electrostatically applied powder coating – Grey
- O-Ring Gasket: Nitrile compound
- Stainless steel, tamper-proof locking set screw in cover



***T Codes Ratings / Wattage Input**

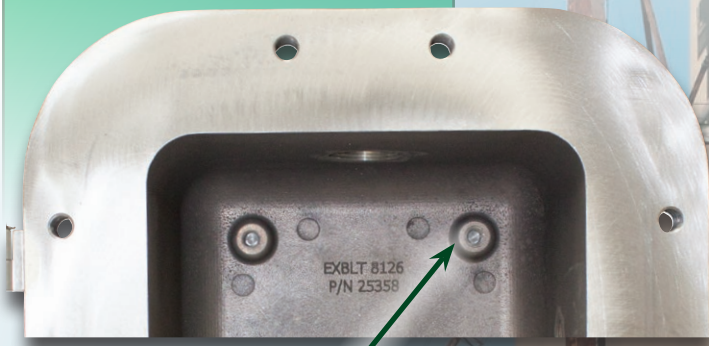
- 20 Watts of Power
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Ta 63°C = T5 / T100°C
Ta 98°C = T4 / T135°C
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- 30 Watts of Power
Ta 50°C = T5 / T100°C
Ta 85°C = T4 / T135°C
Ta 150°C = T3 / T200°C
- 40 Watts of Power
Ta 38°C = T5 / T100°C
Ta 73°C = T4 / T135°C
Ta 138°C = T3 / T200°C





ENCLOSURES
EXBLT SERIES

EXBLT Series is up to 35% lighter than EXB Series

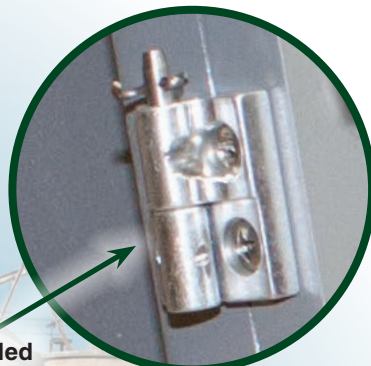


Predrilled internal mounting pan bosses. Uses same mounting pans as the EXB series.

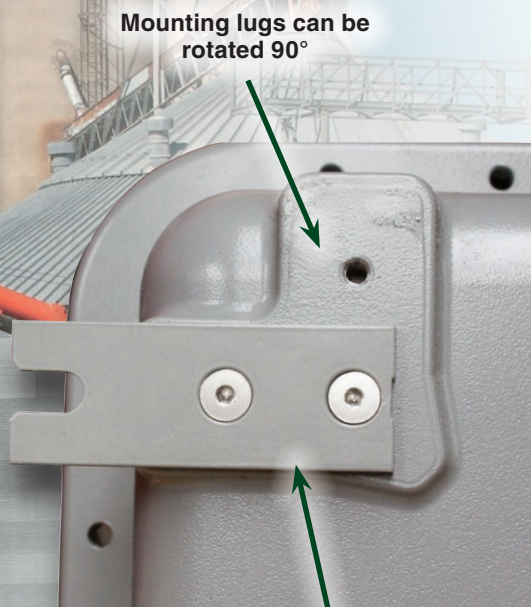


Nitrile (BUNA-N) "O" ring gasket is located inside the bolt circle for wet locations, Type 4 & IP66

Fewer cover bolts required – faster in and out

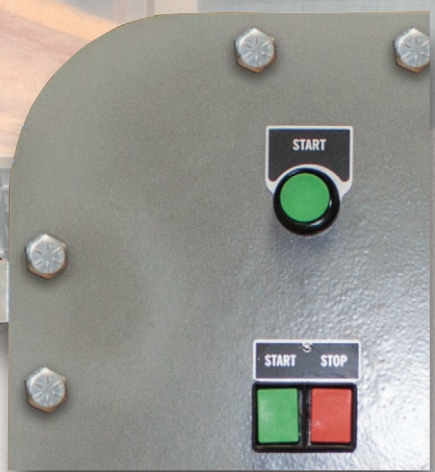


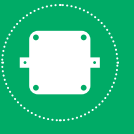
Hinges are extruded aluminum with stainless steel pin and hardware



Mounting lugs can be rotated 90°

Ductile mounting lugs. Lugs are made of a ductile aluminum alloy to adjust to irregular mounting surfaces without damaging the enclosure. Easily replaced if damaged.





JUNCTION BOXES

EXBLITE



EXBLT

Empty / Control Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I, Zone 1, IIB+H2

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +70°C (UL)

Ta = -50°C to +70°C (CSA)



Files E83969



File LR11716 - 1723354

ATEX Certificate



II 2 G D CE 2813

Ex d IIB+H2 Gb 6 or T5

Ex tb IIIC Db IP66 T85°C or T100°C

Ta = -50°C to +70°C

QPS 21 ATEX 0001U

QPS 21 ATEX 0002X

IEC Ex Certificate

Ex db IIB+H2 Gb T6 or T5

Ex tb IIIC Db IP66 T85°C or T100°C

Ta = -50°C to +70°C

IECEX QPS 17.0013U

IECEX QPS 17.0014X

FEATURES-SPECIFICATIONS

EXBLT- For North America and for Global Applications by Adding Suffix "CEN".

Features

- The EXBLT Series is up to 35% lighter than the EXB Series enclosures.
- Copper-free cast/plate aluminum construction. High strength, lighter in weight, highly corrosion resistant.
- Choice of two covers:
 - » Flat aluminum plate cover (EXBLTP)
 - » Original aluminum sand cast cover (EXBLTC)
- Fewer cover bolts – reduces installation and maintenance time. Offered in plated carbon steel, 316SS and 316SS Tri-Lead for quicker access.
- Gasketed cover flange as standard. Nitrile (BUNA-N) "O" ring gasket is located inside the bolt circle to prevent water from seeping into the enclosure
- Mounting lugs are made of ductile aluminum alloy to adjust to irregular mounting surfaces without damaging the enclosure. EXBLTs 8x12x6x and larger supplied with bi-directional mounting pads. Lugs can installed either horizontal or vertical by the factory or in the field. Easily replaced if damage does occur.

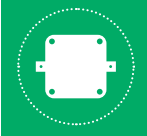
- Hinges supplied as standard on the 6x12x4, 6x12x6 8x12x6 and larger. Smaller sizes can be ordered with hinges by adding SU2 to the catalog number. Hinges can be mounted on any of the 4 sides.
- Enclosures can be drilled and tapped with conduit openings up to 2" NPT or M63 in factory or field.
- Covers can be drilled and tapped (factory or field) for GZ Series control operators openings and EXH disconnect handles. The original aluminum sand cast cover, EXBLTC, can be provided with the GLXR rectangular viewing windows and the GL round threaded viewing windows.
- Cover flanges supplied with recessed notches for prying the covers open without damaging the ground flame path
- The mounting pan bosses are pre-drilled for the factory or field installation of the optional back pans

Material/Finish

- **BOX:** Molded from 356-T6 copper free aluminum, less than ¼ of 1% copper alloy and less than 6% magnesium
- **COVER:** EXBLTP plate cover is made of 6061-T6 aluminum alloy
- **COVER:** EXBLTC cast from 310 copper free aluminum, less than ¼ of 1% copper alloy and less than 6% magnesium
- **BOLTS:** Plated carbon steel
- **HINGES:** Extruded aluminum with stainless steel pin and hardware
- **OPTIONAL:** Mounting pans sheet aluminum 6061-T6 or 5052-H34
- **OPTIONAL:** Viewing windows tempered soda lime glass
- **FINISH:** Plate cover supplied with natural finish. Box and cast cover are painted with wet lacquer

Notes:

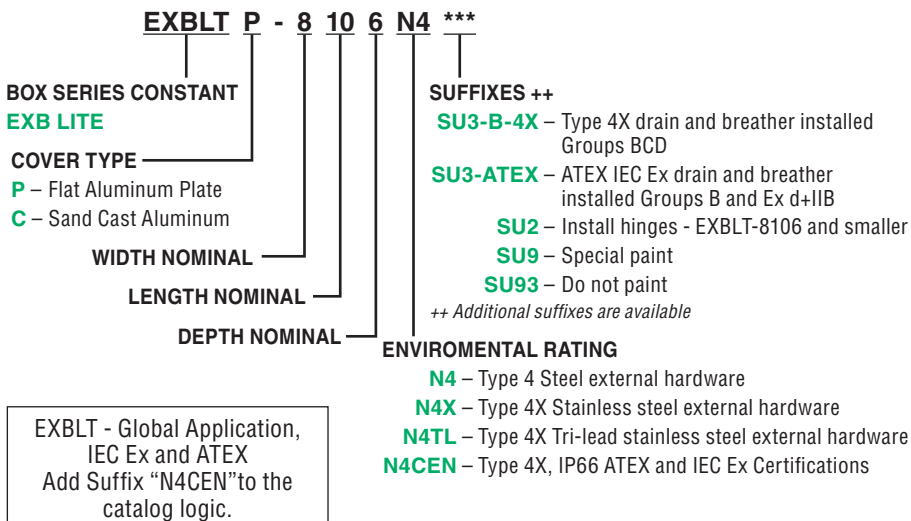
- Conduits must be sealed within 18" for Class I Group B applications
- All conduits or gland openings must be sealed adjacent to the wall for Ex d applications
- For Type 4X rating, add N4X or N4XTL



ENCLOSURES EXBLT SERIES

CATALOG LOGIC AND MODIFICATIONS

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
N4CEN	ATEX & IEC Ex Certifications, IP66 Type 4X
N4X	Stainless steel external hardware for Type 4X
N4TL	Tri-lead stainless steel external hardware for Type 4X
KIT-251	100 amp ground lug
KIT-252	200 amp ground lug
SU3B-QA	cCSAus, ATEX, IEC Ex drain and breather installed Class I Groups B, C, & D Ex d IIB + H2, Type 4, 4x IP66 (enclosures up to 28 liters*)
SU3B-4X	Drain and breather installed Class I Groups B, Type 4, 4X
SU2	Install hinges - EXB-8106 and smaller.
SU14	Fungus Proof Internal
SU9	Special paint
SU93	Do not paint



* For enclosures greater than 28 liters, the KBQA drain/breather can be ordered separately and new ratings are: Class I Groups C & D Ex d IIB, Type 4, 4x IP66. The chart below indicates which enclosures are less than 28 liters.

CATALOG NUMBER	NOMINAL ENCLOSURE INSIDE DIMENSIONS W" L" D" (MM)	MAXIMUM SIZES - NPT / METRIC	OPTIONAL MOUNTING PAN NUMBER	MAXIMUM NUMBER OF OPERATORS	EXBLTP WEIGHT LBS (KGS)	EXBLTC WEIGHT LBS (KGS)	EXBLTP HINGES	EXBLTC HINGES
EXBLT*-664 N4*	6x6x4 (152x152x102)	2" / M63	7997-5	2 rows of 2 = 4	18.2 (8.3)	20.4 (9.3)	HINGE-12L	HINGE-12L
EXBLT*-684 N4*	6x8x4 (152x203x102)	2" / M63	7997-1	2 rows of 3 = 6	21.1 (9.6)	22.7 (10.3)	HINGE-12L	HINGE-12L
EXBLT*-686 N4*	6x8x6 (152x203x152)	2" / M63	7997-1	2 rows of 3 = 6	23.7 (10.8)	25.3 (11.5)	HINGE-12L	HINGE-12L
EXBLT*-6124 N4*	6x12x4 (152x305x102)	2" / M63	7997-6	4 rows of 2 = 8	29.2 (13.2)	39.2 (17.8)	HINGE-12L	HINGE-12L
EXBLT*-6126 N4*	6x12x6 (152x305x152)	2" / M63	7997-6	4 rows of 2 = 8	32.6 (14.8)	42.6 (19.3)	HINGE-12L	HINGE-12L
EXBLT*-886 N4*	8x8x6 (203x203x152)	2" / M63	7996-1	3 rows of 3 = 9	27.9 (12.7)	32.6 (17.8)	HINGE-12L	HINGE-12L
EXBLT*-8104 N4*	8x10x4 (203x254x102)	2" / M63	7996-2	4 rows of 3 = 12	28.6 (13)	35.5 (16.1)	HINGE-12L	HINGE-12L
EXBLT*-8106 N4*	8x10x6 (203x254x152)	2" / M63	7996-2	4 rows of 3 = 12	31.9 (14.5)	38.8 (17.6)	HINGE-12L	HINGE-12L
EXBLT*-8126 N4*	8x12x6 (203x305x152)	2" / M63	17619	4 rows of 3 = 12	46.9 (21.3)	58.3 (26.4)	HINGE-12L	HINGE-11L
EXBLT*-8128 N4*	8x12x8 (203x305x203)	2" / M63	17619	4 rows of 3 = 12	51.6 (23.4)	63 (28.6)	HINGE-12L	HINGE-11L
EXBLT*-9116 N4*	9x11x6 (229x280x152)	2" / M63	25803	4 rows of 3 = 12	36.2 (16.4)	42.5 (19.3)	HINGE-12L	HINGE-12L
EXBLT*-10106 N4*	10x10x6 (254x254x152)	2" / M63	17618	4 rows of 3 = 12	48.8 (22.1)	64.5 (29.3)	HINGE-12L	HINGE-11L
EXBLT*-10108 N4*	10x10x8 (254x254x203)	2" / M63	17618	4 rows of 3 = 12	53.5 (24.3)	69.2 (31.4)	HINGE-12L	HINGE-11L
EXBLT*-10146 N4*	10x14x6 (254x356x152)	2" / M63	17617	5 rows of 3 = 15	59.7 (27.07)	77.9 (35.3)	HINGE-12L	HINGE-11L
EXBLT*-10148 N4*	10x14x8 (254x356x203)	2" / M63	17617	5 rows of 3 = 15	65.3 (29.6)	83.5 (37.9)	HINGE-12L	HINGE-11L
EXBLT*-12126 N4*	12x12x6 (305x305x152)	2" / M63	7988-1	4 rows of 4 = 16	55 (25)	71.8 (32.6)	HINGE-12L	HINGE-11L
EXBLT*-12128 N4*	12x12x6 (305x305x203)	2" / M63	7988-1	4 rows of 4 = 16	60.3 (27.4)	77.1 (35)	HINGE-12L	HINGE-11L
EXBLT*-12186 N4*	12x18x6 (305x457x152)	2" / M63	15515	7 rows of 4 = 28	82 (37.2)	93 (42.2)	HINGE-11L	HINGE-11L
EXBLT*-12188 N4	12x18x8 (305x457x203)	2" / M63	15515	7 rows of 4 = 28	89 (40.7)	100 (45.4)	HINGE-11L	HINGE-11L
EXBLT*-12246 N4*	12x24x6 (305x610x152)	4" / M100	7988-4	9 rows of 4 = 36	110 (50)	133 (60.3)	HINGE-11L	HINGE-11L
EXBLT*-12248 N4	12x24x8 (305x610x203)	4" / M100	7988-4	9 rows of 4 = 36	122 (55.4)	145 (65.8)	HINGE-11L	HINGE-11L
EXBLT*-14148 N4*	14x14x8 (356x356x203)	2" / M63	17621	5 rows of 5 = 25	88 (40)	108 (49)	HINGE-11L	HINGE-11L
EXBLT*-14248 N4	14x24x8 (406x610x203)	4" / M100	51705-1	9 rows of 5 = 45	142 (64.4)	N/A	HINGE-11L	HINGE-11L
EXBLT*-14308 N4	14x30x8 (406x762x203)	4" / M100	51698-1	11 rows of 5 = 55	166 (75.3)	N/A	HINGE-11L	HINGE-11L
EXBLT*-16168 N4	16x16x8 (406x406x203)	2" / M63	7995-1	6 rows of 6 = 36	98 (44.4)	118 (53.5)	HINGE-11L	HINGE-11L
EXBLT*-16248 N4	16x24x8 (406x610x203)	5" / M100	17622	8 rows of 5 = 40	166 (75.3)	213 (96.6)	HINGE-11L	HINGE-11L

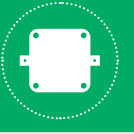
* Add "P" for aluminum plate cover. Add "C" for sand cast cover. Cast cover not available for 14x24x8 and 14x30x8 sizes.

+ Enclosures less than 28 liters. KBQA breather/drain rated for Class I Groups B, C, & D Ex d IIB + H2, Type 4, 4x IP66.

Mounting Pan - Order mounting pan as separate item and specify if factory of field installed.

Note: For Group B applications all conduit must be sealed within 18" of enclosure wall.

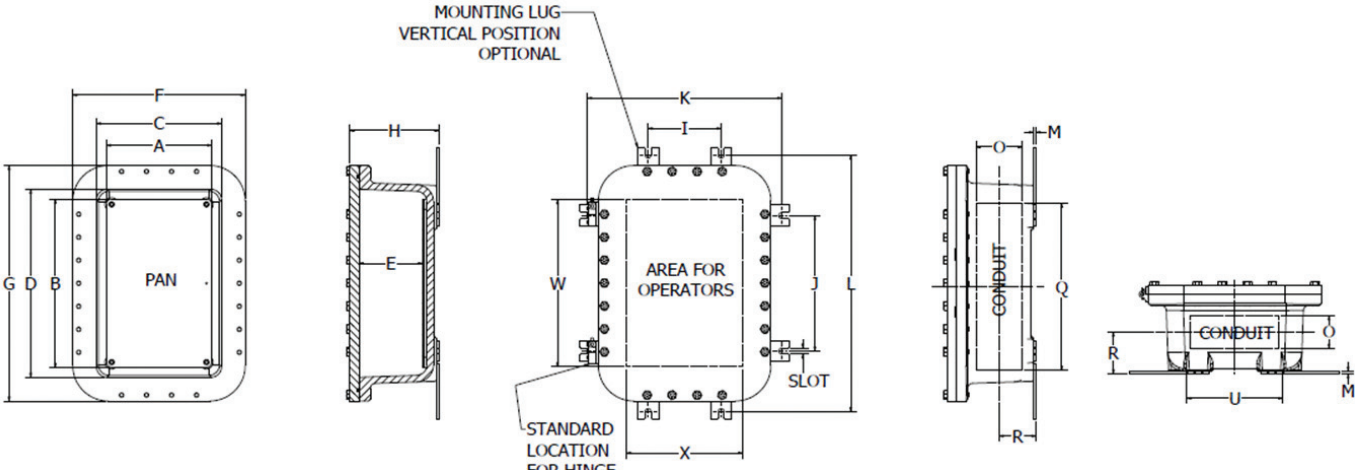
Note: For IEC Ex applications all conduit must be sealed at the wall of the enclosure.

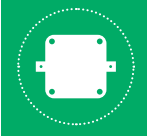


DIMENSIONS

ENCLOSURE CATALOG NUMBER	INTERNAL DIMENSIONS - INCHES (MM)						EXTERNAL DIMENSIONS - INCHES (MM)			
	PAN		AVAILABLE EQUIPMENT SPACE				F	G	H ("P" PLATE)	H ("C" CAST)
	A	B	C	D	E ("P" PLATE)	E ("C" CAST)				
EXBLT-664 N4	5 (127)	5 (127)	6 (152)	6 (152)	4 (102)	4.25 (108)	10.32 (262)	10.32 (262)	5.94 (151)	6.18 (157)
EXBLT-684 N4	5 (127)	7 (178)	6 (152)	8 (203)	4 (102)	4.32 (110)	10.25 (260)	12.25 (311)	5.88 (149)	6.13 (156)
EXBLT-686 N4	5 (127)	7 (178)	6 (152)	8 (203)	6 (152)	6.32 (160)	10.25 (260)	12.25 (311)	7.88 (200)	8.13 (206)
EXBLT-6124 N4	5 (127)	11 (279)	6.25 (159)	12.25 (311)	4 (102)	4.56 (116)	10.69 (272)	16.69 (424)	5.88 (149)	6.75 (171)
EXBLT-6126 N4	5 (127)	11 (279)	6.25 (159)	12.25 (311)	6 (152)	6.56 (167)	10.69 (272)	16.69 (424)	7.88 (200)	8.75 (222)
EXBLT-886 N4	7 (178)	7 (178)	8 (203)	8 (203)	6 (152)	6.16 (156)	12.32 (313)	12.32 (313)	7.94 (202)	8.34 (212)
EXBLT-8104 N4	7 (178)	9 (229)	8 (203)	10 (254)	4 (102)	4.18 (106)	12.32 (313)	14.32 (364)	5.94 (151)	6.53 (166)
EXBLT-8106 N4	7 (178)	9 (229)	8 (203)	10 (254)	6 (152)	6.18 (157)	12.32 (313)	14.32 (364)	7.94 (202)	8.53 (217)
EXBLT-8126 N4	7 (178)	11 (279)	8.5 (216)	12.5 (318)	6 (152)	6.6 (167)	13.25 (337)	17.25 (438)	8 (203)	8.88 (225)
EXBLT-8128 N4	7 (178)	11 (279)	8.5 (216)	12.5 (318)	8 (203)	8.6 (218)	13.25 (337)	17.25 (438)	10 (254)	10.88 (276)
EXBLT-9116 N4	8 (203)	10 (254)	9 (229)	11 (279)	6 (152)	6.18 (157)	13.32 (338)	15.32 (389)	7.94 (202)	8.53 (217)
EXBLT-10106 N4	9 (229)	9 (229)	10.5 (267)	10.5 (267)	6 (152)	6.41 (163)	15.25 (387)	15.25 (387)	8.18 (208)	9.13 (232)
EXBLT-10108 N4	9 (229)	9 (229)	10.5 (267)	10.5 (267)	8 (203)	8.41 (214)	15.25 (387)	15.25 (387)	10.18 (259)	11.13 (284)
EXBLT-10146 N4	9 (229)	13 (330)	10.5 (267)	14.5 (368)	6 (152)	6.22 (158)	15.25 (387)	19.25 (489)	8.18 (208)	9.13 (232)
EXBLT-10148 N4	9 (229)	13 (330)	10.5 (267)	14.5 (368)	8 (203)	8.22 (209)	15.25 (387)	19.25 (489)	10.18 (259)	11.13 (284)
EXBLT-12126 N4	10.5 (267)	10.5 (267)	11.87(301)	11.87(301)	6 (152)	6.3 (160)	16.38 (416)	16.38 (416)	8.18 (208)	9.06 (230)
EXBLT-12128 N4	10.5 (267)	10.5 (267)	11.87(301)	11.87(301)	8 (203)	8.3 (211)	16.38 (416)	16.38 (416)	10.18 (259)	11.06 (281)
EXBLT-12186 N4	10 (254)	16 (406.4)	11.88 (301)	17.88 (454)	6 (152)	6.09 (155)	16.38 (416)	22.38 (568.4)	8.44 (214.4)	8.97 (228)
EXBLT-12188 N4	10 (254)	16 (406.4)	11.88 (301)	17.88 (454)	8 (203)	8.09 (206)	16.38 (416)	22.38 (568.4)	10.44 (265)	10.97 (279)
EXBLT-12246 N4	10.25 (260)	22.25 (565)	11.88 (301)	23.88 (606)	6 (152)	6.13 (156)	16.38 (416)	28.38 (722)	8.57 (218)	9.28 (236)
EXBLT-12248 N4	10.25 (260)	22.25 (565)	11.88 (301)	23.88 (606)	8 (203)	8.13 (206)	16.38 (416)	28.38 (722)	10.57 (268.5)	11.28 (286)
EXBLT-14148 N4	13 (330)	13 (330)	14.5 (368)	14.5 (368)	8 (203)	8.34 (212)	19.25 (489)	19.25 (489)	10.44 (265)	11.34 (288)
EXBLT-14248 N4	13 (330)	22.25 (565)	14.5 (368)	24.5 (622)	8 (203)	N/A	19.25 (489)	29.25 (743)	10.57 (268.5)	N/A
EXBLT-14308 N4	13 (330)	29 (736)	14.5 (368)	30.5 (775)	8 (203)	N/A	19.25 (489)	35.25 (895.3)	10.57 (268.5)	N/A
EXBLT-16168 N4	14 (355)	14 (355)	15.88 (403)	15.88 (403)	8 (203)	8.14 (207)	20.38 (518)	20.38 (518)	10.44 (265)	11.11 (282)
EXBLT-16248 N4	15 (381)	23 (584)	16.5 (419)	24.5 (622)	8 (203)	8.34 (212)	21.25 (540)	29.25 (743)	10.69 (271.5)	11.91 (302)

All dimensions in. (mm)



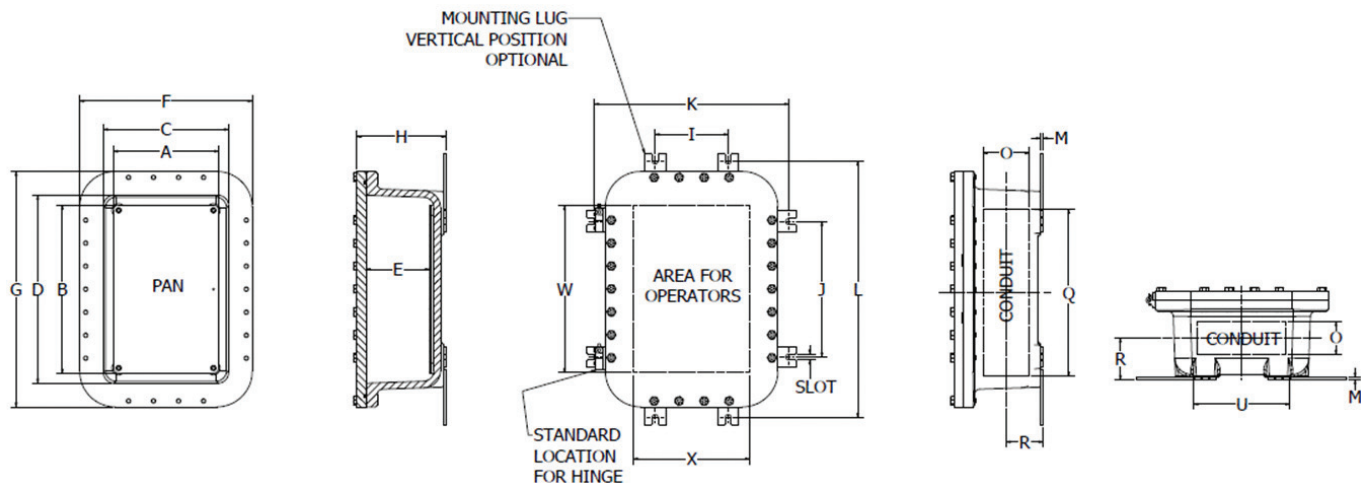


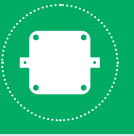
ENCLOSURES EXBLT SERIES

ENCLOSURE CATALOG NUMBER	MOUNTING DIMENSIONS - INCHES (MM)						CONDUIT AREA - INCHES (MM)					OPERATOR AREA SPECIFICATION	
							SIDE WALL		CENTER	TOP/BOTTOM WALL			
	I	J	K	L	M	SLOT WIDTH	O	Q	R	S	U	W	X
EXBLT-664 N4	N/A	4 (102)	7.88 (200)	N/A	0.19 (5)	0.44 (11)	2.81 (71)	4.72 (120)	2.75 (70)	4.72 (120)	2.5 (63)	5 (127)	5 (127)
EXBLT-684 N4	N/A	4 (102)	7.88 (200)	N/A	0.19 (5)	0.44 (11)	2.81 (71)	6.59 (167)	2.75 (70)	4.59 (117)	2.5 (63)	5 (127)	5 (127)
EXBLT-686 N4	N/A	4 (102)	7.88 (200)	N/A	0.19 (5)	0.44 (11)	4.81 (122)	6.59 (167)	3.75 (95)	4.59 (117)	2.5 (63)	5 (127)	5 (127)
EXBLT-6124 N4	N/A	7.82 (199)	7.88 (200)	N/A	0.19 (5)	0.44 (11)	2.81 (71)	10.84 (275)	2.75 (70)	4.84 (123)	2.5 (63)	5 (127)	5 (127)
EXBLT-6126 N4	N/A	7.82 (199)	7.88 (200)	N/A	0.19 (5)	0.44 (11)	4.81 (122)	10.84 (275)	3.75 (95)	4.84 (123)	2.5 (63)	5 (127)	5 (127)
EXBLT-886 N4	N/A	6 (152)	9.88 (251)	N/A	0.19 (5)	0.44 (11)	4.81 (122)	6.56 (167)	3.75 (95)	6.56 (167)	2.5 (63)	7(178)	7 (178)
EXBLT-8104 N4	N/A	8 (203)	9.88 (251)	N/A	0.19 (5)	0.44 (11)	2.81 (71)	8.56 (217)	2.75 (70)	6.56 (167)	2.5 (63)	7(178)	7 (178)
EXBLT-8106 N4	N/A	8 (203)	9.88 (251)	N/A	0.19 (5)	0.44 (11)	4.81 (122)	8.56 (217)	3.75 (95)	6.56 (167)	2.5 (63)	7(178)	7 (178)
EXBLT-8126 N4	3.82 (97)	7.82 (199)	10.38 (264)	14.38 (365)	0.19 (5)	0.44 (11)	3.94 (100)	10.13 (257)	3.95 (100)	6.13 (156)	2.5 (63)	7(178)	7 (178)
EXBLT-8128 N4	3.82 (97)	7.82 (199)	10.38 (264)	14.38 (365)	0.19 (5)	0.44 (11)	5.94 (151)	9.97 (253)	4.95 (126)	5.97 (152)	2.5 (63)	7(178)	7 (178)
EXBLT-9116 N4	N/A	7.5 (191)	10.88 (276)	N/A	0.19 (5)	0.44 (11)	4.81 (122)	9.56 (243)	3.81 (97)	7.56 (192)	2.5 (63)	8 (203)	8 (203)
EXBLT-10106 N4	4.94 (125)	4.94 (125)	12.94 (329)	12.94 (329)	0.25 (6)	0.56 (14)	3.94 (100)	8.13 (206)	4.09 (104)	8.13 (206)	2.5 (63)	9 (229)	9 (229)
EXBLT-10108 N4	4.94 (125)	4.94 (125)	12.94 (329)	12.94 (329)	0.25 (6)	0.56 (14)	5.94 (151)	7.97 (202)	5.09 (129)	7.97 (202)	2.5 (63)	9 (229)	9 (229)
EXBLT-10146 N4	4.94 (125)	8.94 (227)	12.94 (329)	16.94 (430)	0.25 (6)	0.56 (14)	3.94 (100)	12.13 (308)	4.09 (104)	8.13 (206)	2.5 (63)	9 (229)	9 (229)
EXBLT-10148 N4	4.94 (125)	8.94 (227)	12.94 (329)	16.94 (430)	0.25 (6)	0.56 (14)	5.94 (151)	11.97 (303)	5.09 (129)	7.97 (202)	2.5 (63)	9 (229)	9 (229)
EXBLT-12126 N4	6.94 (176)	6.94 (176)	14.94 (379)	14.94 (379)	0.25 (6)	0.56 (14)	3.94 (100)	9.5 (241)	4.09 (104)	9.5 (241)	2.5 (63)	10 (254)	10 (254)
EXBLT-12128 N4	6.94 (176)	6.94 (176)	14.94 (379)	14.94 (379)	0.25 (6)	0.56 (14)	5.94 (151)	9.34 (237)	5.09 (129)	9.34 (237)	2.5 (63)	10 (254)	10 (254)
EXBLT-12186 N4	6.94 (176)	12.88 (327)	14.94 (379)	20.88 (530)	0.25 (6)	0.56 (14)	3.88 (98)	15.5 (394)	4.03 (102)	9.5 (241)	2.5 (63)	10 (254)	10 (254)
EXBLT-12188 N4	6.94 (176)	12.88 (327)	14.94 (379)	20.88 (530)	0.25 (6)	0.56 (14)	5.88 (149)	15.34 (390)	5.03 (128)	9.34 (237)	2.5 (63)	10 (254)	10 (254)
EXBLT-12246 N4	6.94 (176)	18.88 (480)	14.91 (379)	26.88 (683)	0.25 (6)	0.56 (14)	3.88 (98)	21.5 (546)	4.03 (102)	9.5 (241)	2.5 (63)	10 (254)	10 (254)
EXBLT-12248 N4	6.94 (176)	18.88 (480)	14.91 (379)	26.88 (683)	0.25 (6)	0.56 (14)	5.88 (149)	21.34 (542)	5.03 (128)	9.34 (237)	2.5 (63)	10 (254)	10 (254)
EXBLT-14148 N4	9.00 (229)	9.00 (229)	17 (432)	17 (432)	0.25 (6)	0.56 (14)	5.94 (151)	11.97 (304)	5.09 (129)	11.97 (304)	2.5 (63)	13 (330)	13 (330)
EXBLT-14248 N4	9.00 (229)	19.38 (492)	17 (432)	27.38 (695)	0.25 (6)	0.56 (14)	5.88 (149)	21.97 (686)	5.16 (131)	11.97 (304)	2.5 (63)	13 (330)	13 (330)
EXBLT-14308 N4	9.00 (229)	26.25 (668)	17 (432)	34.25 (870)	0.25 (6)	0.56 (14)	5.94 (151)	27.97 (710)	5.19 (132)	11.97 (304)	2.5 (63)	13 (330)	13 (330)
EXBLT-16168 N4	10.94 (278)	10.94 (278)	17.19 (437)	18.94 (481)	0.25 (6)	0.56 (14)	5.94 (151)	13.34 (339)	5.06 (129)	13.34 (339)	2.5 (63)	14 (356)	14 (356)
EXBLT-16248 N4	10.94 (278)	19.38 (492)	19.38 (492)	27.38 (695)	0.25 (6)	0.56 (14)	5.94 (151)	21.97 (686)	5.31 (135)	13.97 (355)	2.5 (63)	14 (356)	14 (356)

Use "LONG" style GZ Series Operators

All dimensions in. (mm)





CONDUIT OPENING DATA

Instructions

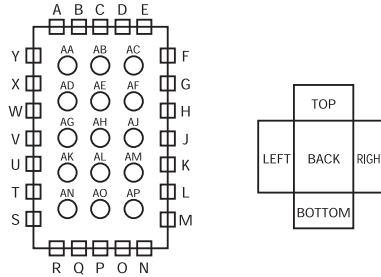
Drilled and tapped conduit openings will be evenly spaced and located in the area indicated on the location chart. Critical conduit opening locations may be indicated by supplying a diagram similar to the one shown at right indicating critical dimensions and locations. Specific conduit openings must be located dimensionally from box centerlines to conduit centerlines and from outside back surface of box to conduit centerline.

Ordering Information:

- Select the letter on location chart which indicates conduit opening position desired.
- Select symbol number from chart which indicates conduit opening type and size.

- Combine the conduit location letter, size and type number, and add as a suffix to junction box catalog number.

Example: EXB-12248 N34-C3-J5-PI3-AH4



Drawing indicates position as looking into open face of box with short side (top) up.

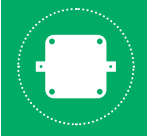
EXB/EXBLT/B7/GR SYMBOL NUMBERS		
CONDUIT SIZE	CONDUIT OPENINGS DRILLED AND TAPPED	UNION
1/2"	1	11
3/4"	2	12
1"	3	13
1-1/4"	4	14
1-1/2"	5	15
2"	6	16
2-1/2"	7	17
3"	8	18
3-1/2"	9	19
4"	0	10
5"	02	—
6"	04	—

Union = GUM series male NPT unions

EXB/EXBLT/B7/GR - MINIMUM CENTER TO CENTER SPACING FOR DRILLED AND TAPPED OPENINGS AND UNION HUBS													
NPT (METRIC)	SPACE CENTERS	1/2" (M16)	3/4" (M20)	1" (M25)	1-1/4" (M32)	1-1/2" (M40)	2" (M50)	2-1/2" (M63)	3" (M75)	3-1/2" (M80)	4" (M100)	5"	6"
1/2" (M16)	MIN	1.18 (30)	—	—	—	—	—	—	—	—	—	—	—
	PRE	1.38 (35)	—	—	—	—	—	—	—	—	—	—	—
	GU	1.63 (41)	—	—	—	—	—	—	—	—	—	—	—
3/4" (M20)	MIN	1.38 (35)	1.5 (38)	—	—	—	—	—	—	—	—	—	—
	PRE	1.5 (38)	1.63 (41)	—	—	—	—	—	—	—	—	—	—
	GU	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—	—
1" (M25)	MIN	1.5 (38)	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—
	PRE	1.75 (44)	1.88 (48)	2 (108)	—	—	—	—	—	—	—	—	—
	GU	1.88 (48)	2 (108)	2.13 (54)	—	—	—	—	—	—	—	—	—
1-1/4" (M32)	MIN	1.69 (43)	1.94 (49)	2.06 (52)	2.31 (59)	—	—	—	—	—	—	—	—
	PRE	1.94 (49)	2.06 (52)	2.25 (57)	2.5 (64)	—	—	—	—	—	—	—	—
	GU	2.06 (52)	2.25 (57)	2.31 (59)	2.5 (64)	—	—	—	—	—	—	—	—
1-1/2" (M40)	MIN	1.94 (49)	2.06 (52)	2.19 (56)	2.5 (64)	2.63 (67)	—	—	—	—	—	—	—
	PRE	2.13 (54)	2.25 (57)	2.38 (60)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
	GU	2.19 (56)	2.28 (58)	2.44 (62)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
2" (M50)	MIN	2.25 (57)	2.38 (60)	2.56 (65)	2.81 (71)	2.94 (75)	3.19 (81)	—	—	—	—	—	—
	PRE	2.38 (60)	2.5 (64)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
	GU	2.5 (64)	2.59 (66)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
2-1/2" (M63)	MIN	2.44 (62)	2.56 (65)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	—	—	—	—	—
	PRE	2.63 (67)	2.75 (70)	3 (76)	3.25 (82)	3.38 (86)	3.63 (92)	4 (102)	—	—	—	—	—
	GU	3.13 (97)	3.22 (82)	3.38 (86)	3.56 (90)	3.69 (94)	4 (102)	4.63 (117)	—	—	—	—	—
3" (M75)	MIN	2.81 (71)	2.94 (75)	3.06 (78)	3.31 (84)	3.44 (87)	3.75 (95)	4 (102)	4.31 (110)	—	—	—	—
	PRE	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	3.75 (95)	4 (102)	4.38 (111)	4.75 (121)	—	—	—	—
	GU	3.56 (90)	3.66 (93)	3.81 (97)	4 (102)	4.13 (105)	4.44 (113)	5.06 (129)	5.5 (140)	—	—	—	—
3-1/2" (M80)	MIN	3.13 (97)	3.25 (82)	3.38 (86)	3.63 (92)	3.75 (95)	4.06 (103)	4.31 (110)	4.63 (117)	4.94 (125)	—	—	—
	PRE	3.38 (86)	3.5 (89)	3.63 (92)	3.88 (98)	4 (102)	4.38 (111)	4.63 (117)	5 (127)	5.38 (136)	—	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	—	—	—
4" (M100)	MIN	3.44 (87)	3.56 (90)	3.69 (94)	3.94 (100)	4.06 (103)	4.38 (111)	4.63 (117)	4.94 (125)	5.25 (133)	5.56 (141)	—	—
	PRE	3.75 (95)	3.88 (98)	4 (102)	4.25 (108)	4.38 (111)	4.75 (121)	5 (127)	5.75 (146)	5.63 (143)	6 (152)	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	6.38 (162)	—	—
5"	MIN	4.13 (105)	4.25 (108)	4.38 (111)	4.63 (117)	4.75 (121)	5 (127)	5.25 (133)	5.56 (141)	5.88 (149)	6.19 (157)	6.19 (157)	—
	PRE	4.38 (111)	4.5 (114)	4.63 (117)	4.88 (124)	5 (127)	5.38 (136)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7.25 (184)	—
6"	MIN	4.75 (121)	4.88 (124)	5 (127)	5.25 (133)	5.38 (136)	5.63 (143)	5.88 (149)	6.19 (157)	6.5 (165)	6.81 (173)	7.44 (190)	8.13 (206)
	PRE	5 (127)	5.13 (130)	5.25 (133)	5.5 (140)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7 (178)	7.25 (184)	8 (203)	8.63 (220)
LOCKNUT O.D.		1.25 (32)	1.13 (29)	1.69 (43)	2.19 (56)	2.44 (62)	3 (76)	3.44 (87)	4.19 (106)	4.81 (122)	5.38 (136)	6.69 (170)	7.94 (202)
CONDUIT BUSHING		1 (25)	1.25 (32)	1.5 (38)	1.88 (48)	2.13 (54)	2.63 (67)	3.19 (81)	3.88 (98)	4.44 (113)	5 (127)	6.25 (159)	7.38 (187)
CONDUIT O.D.			1.06 (27)	1.38 (35)	1.69 (43)	1.94 (49)	2.38 (60)	2.88 (73)	3.5 (89)	4 (102)	4.5 (114)	5.56 (141)	6.63 (168)

All dimension in. (mm)

MIN: The minimum space required to provide enough clearance over locknuts and bushings.
PRE: The preferred more liberal center to center spacing of openings. To be used whenever possible.
GU: The required spacing between openings using GUM Series male NPT unions.



ENCLOSURES
EXBLT SERIES

REPLACEMENT PARTS

REPLACEMENT PARTS										
ENCLOSURE CATALOG NUMBER	COVER GASKET	MOUNTING LUG KIT (Contains four mounting lugs and hardware)	COVER BOLTS – SOLD PER EACH					HINGES		
			NO. OF BOLTS PER ENCLOSURE	CARBON STEEL “N4”	316 STAINLESS STEEL “N4X”	316 STAINLESS STEEL TRI-LEAD PLATE COVERS “N4XTL”	316 STAINLESS STEEL TRI-LEAD CAST COVERS “N4XTL”	ATEX IEC EX 316 STAINLESS STEEL “N4CEN”	EXBLTP BOXES (*) ADD “L” FOR LEFT OR “R” FOR RIGHT	EXBLTC BOXES (*) ADD “L” FOR LEFT OR “R” FOR RIGHT
EXBLT*-664 N4	EXB66RG	EXB-MTL1	8	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-684 N4	EXB68RG	EXB-MTL1	10	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-686 N4	EXB68RG	EXB-MTL1	10	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-6124 N4	EXB612RG	EXB-MTL1	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-12*
EXBLT*-6126 N4	EXB612RG	EXB-MTL1	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-12*
EXBLT*-886 N4	EXB88RG	EXB-MTL1	12	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-8104 N4	EXB810RG	EXB-MTL1	14	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-8106 N4	EXB810RG	EXB-MTL1	14	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-8126 N4	EXB812RG	EXB-MTL1	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-8128 N4	EXB812RG	EXB-MTL1	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-9116 N4	EXB911RG	EXB-MTL1	14	0725115B	25952BAAB	xxxxx	xxxxx	20790AAAB	HINGE-12*	HINGE-12*
EXBLT*-10106 N4	EXB1010RG	EXB-MTL2	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-10108 N4	EXB1010RG	EXB-MTL2	12	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-10146 N4	EXB1014RG	EXB-MTL2	16	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-10148 N4	EXB1014RG	EXB-MTL2	16	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-12126 N4	EXB1212RG	EXB-MTL2	16	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-12128 N4	EXB1212RG	EXB-MTL2	16	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-12*	HINGE-11*
EXBLT*-12186 N4	EXB1218RG	EXB-MTL2	28	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-12188 N4	EXB1218RG	EXB-MTL2	28	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-12246 N4	EXB1224RG	EXB-MTL2	36	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-12248 N4	EXB1224RG	EXB-MTL2	36	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-14148 N4	EXB1224RG	EXB-MTL2	20	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-14248 N4	EXB1224RG	EXB-MTL2	28	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-14308 N4	EXB1224RG	EXB-MTL2	36	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-16168 N4	EXB1224RG	EXB-MTL2	24	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*
EXBLT*-16248 N4	EXB1224RG	EXB-MTL2	30	0720361B	25952AAAB	25904AAAB	17339AAAB	20790BAAB	HINGE-11*	HINGE-11*

Hinges

Hinges are provided as a standard on EXBLT*-6124, EXBLT*-6126 and sizes EXBLT*-8126 and larger. See chart for replacement hinge catalog number. Sold in sets of (2).

“G” Series Operators

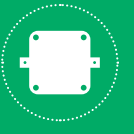
The EXBLT* uses the GZ Long Style operators.

Touch-Up Paint

The touch-up paint comes in a 12 oz aerosol can.

Wet lacquer silver gray touch-up paint: KTPALS.

Epoxy powder gray touch-up paint: KTPEPG.



JUNCTION BOXES

QUANTUM[®]



EXB

Empty / Control Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I, Zone 1, IIB+H2

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +70°C (UL)

Ta = -50°C to +70°C (CSA)



Files E83969

File LR11716 - 1723354

ATEX Certificate



II 2 G D CE 2813

Ex d IIB+H2 Gb 6 or T5

Ex tb IIIC Db IP66 T85°C or T100°C

Ta = -50°C to +70°C

QPS 21 ATEX 0001U

QPS 21 ATEX 0002X

IEC Ex Certificate

Ex db IIB+H2 Gb T6 or T5

Ex tb IIIC Db IP66 T85°C or T100°C

Ta = -50°C to +70°C

IECEX QPS 17.0013U

IECEX QPS 17.0014X

FEATURES-SPECIFICATIONS

Features

- Copper-free cast aluminum construction – high strength, light in weight, corrosion resistant
- Fewer Cover Bolts. Computer-aided design lessens the number of cover bolts by eliminating corner bolts. Reduces installation and maintenance time
- Nitrile (BUNA-N) “O” ring gasket is located inside bolt circle to prevent water seeping into enclosure
- Mounting lugs are made of ductile aluminum alloy to adjust to irregular mounting surfaces without damaging the enclosure. EXBLTs 8x12x6x and larger supplied with bi-directional mounting pads. Lugs can be installed either horizontal or vertical by the factory or in the field. Easily replaced if damage does occur.

- All enclosure sizes 8x12x6 and larger are supplied standard with hinges mounted on the left side. Smaller enclosures are drilled for field installation of two Killark HINGE-9 assemblies or can be installed at factory by adding SU2 to catalog number. For hinges to be located in other positions, specify when ordering.
- Recessed Flange Notches – Flanges are notched to allow for easier cover opening with prying instrument without flange damage
- Cast with wall thickness suitable for drilling and tapping of conduit openings in all sides and back of boxes. Conduit size and location information is found on dimensional chart in this section. Conduit openings can be factory or field installed.
- Mounting pan bosses are pre-drilled at factory for field mounting of optional mounting pan.

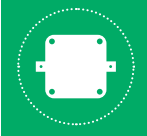
Materials

- Enclosure: Copper-free aluminum (less than 1/10 of 1%)
- Hinges: Aluminum with stainless steel hardware
- Steel cover bolts
- Optional Mounting Pans: Sheet aluminum
- Optional Windows: Tempered soda lime glass
- Finish: Aluminum lacquer

EXB - For Global Applications, ATEX and IEC Ex, Add Suffix “CEN” to the catalog logic.

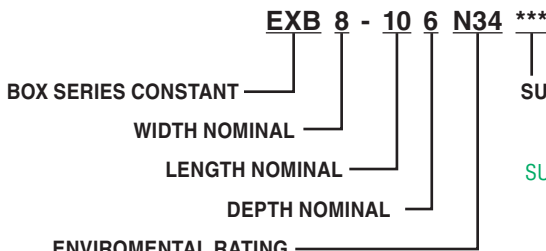
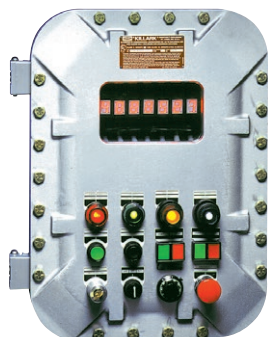
Notes:

- Conduits must be sealed within 18” for Group B applications.
- Type 4X with optional SU-1 modification.
- All conduit or gland openings must be sealed adjacent to the wall of Ex d applications.



ENCLOSURES EXB SERIES

JUNCTION BOXES



SUFFIXES

- SU3B-4X** – Type 4X drain and breather installed Groups BCD
- SU3B-ATEX** – ATEX IEC Ex drain & breather installed Groups B & Ex d+IIB
- SU2** – Install hinges - EXB-8106 and smaller
- SU9** – Special paint
- SU93** – Do not paint

Additional suffixes are available

ENVIRONMENTAL RATING

- N34** – Type 4 Steel external hardware
- N34 SU-1** – Type 4X Stainless steel external hardware
- N34TL** – Type 4X Tri-lead stainless steel external hardware
- N34CEN** – Type 4X, IP66 ATEX & IEC Ex Certifications

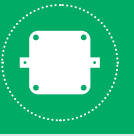
MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
N34CEN	ATEX & IEC Ex Certifications, IP66 Type 4X. Cover bolts 316 SS
N34 SU-1	316 Stainless steel external hardware for Type 4X
N34TL	Tri-lead captive 316 stainless steel external hardware for Type 4X
KIT-251	100 amp grounding lug
KIT-252	200 amp grounding lug
SU3B-QA	cCSAus, ATEX, IEC Ex drain and breather installed Class I Groups B, C, & D Ex d IIB + H2, Type 4, 4x IP66 (enclosures up to 28 liters*)
SU3B-4X	UL and CSA drain and breather installed Class I Groups B, Type 4, 4X
SU3B-ATEX	UL CSA, ATEX, IEC Ex drain and breather installed Class I Groups B & Ex d IIB, Voids Type 4 & IP66
SU2	Install hinges EXB 8106 and smaller
SU9PEEX	External gray powder coated epoxy paint
SU14	Fungus Proof internally
SU9	Special paint - specify
SU93	Do not paint
TOE PLATE KIT	Door guide plate to assist in aligning installing cover bolts

* For enclosures greater than 28 liters, the KBQA drain/breather can be ordered separately and new ratings are: Class I Groups C & D Ex d IIB, Type 4, 4x IP66.

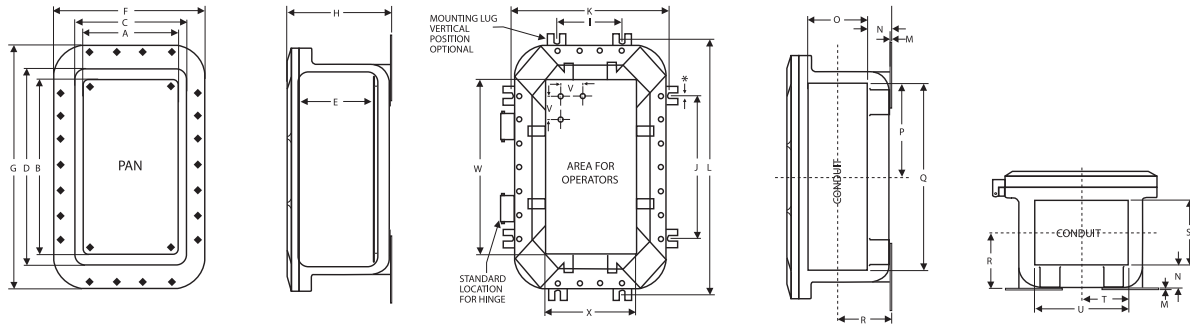
The chart to the right indicates which enclosures are less than 28 liters.

+ Enclosures less than 28 liters. KBQA breather/drain rated for Class I Groups B, C, & D Ex d IIB + H2, Type 4, 4x IP66.

EXB JUNCTION BOXES AND ENCLOSURES					
CATALOG NUMBER	NOMINAL ENCLOSURE INSIDE DIMENSIONS W" L" D" (MM)	MAXIMUM CONDUIT SIZE	OPTIONAL MOUNTING PAN NUMBER	MAXIMUM NUMBER OF OPERATORS†	WEIGHT LBS (KGS)
EXB-664 N34*	6x6x4 (152x152x102)	2"	7997-5	2 rows of 2 = 4	18 (8.17)
EXB-886 N34*	8x8x6 (203x203x152)	2"	7996-1	3 rows of 3 = 9	30 (13.62)
EXB-8104 N34*	8x10x4 (203x254x102)	2"	7996-2	4 rows of 3 = 12	35 (15.89)
EXB-8106 N34*	8x10x6 (203x254x152)	2"	7996-2	4 rows of 3 = 12	38 (17.25)
EXB-8126 N34*	8x12x6 (203x305x152)	3"	17619	4 rows of 3 = 12	47 (21.34)
EXB-8128 N34*	8x12x8 (203x305x203)	4"	17619	4 rows of 3 = 12	67 (30.42)
EXB-10106 N34*	10x10x6 (254x254x102)	3"	17618	4 rows of 3 = 12	68.5 (31)
EXB-10108 N34*	10x10x8 (254x254x203)	5"	17618	4 rows of 3 = 12	80.5 (37)
EXB-10146 N34*	10x14x6 (254x356x152)	3"	17617	5 rows of 3 = 15	82 (37.23)
EXB-10148 N34*	10x14x8 (254x356x203)	5"	17617	5 rows of 3 = 15	89 (40.41)
EXB-12126 N34*	12x12x6 (305x305x152)	3"	7988-1	4 rows of 4 = 16	75 (34.05)
EXB-12128 N34*	12x12x8 (305x305x203)	5"	7988-1	4 rows of 4 = 16	83 (37.68)
EXB-12186 N34*	12x18x6 (305x457x152)	3"	15515	7 rows of 4 = 28	110 (49.94)
EXB-12188 N34*	12x18x8 (305x457x203)	5"	15515	7 rows of 4 = 28	120 (54.48)
EXB-12246 N34*	12x24x6 (305x610x152)	3"	7988-4	9 rows of 4 = 36	145 (65.83)
EXB-12248 N34*	12x24x8 (305x610x203)	5"	7988-4	9 rows of 4 = 36	160 (72.64)
EXB-122412 N34	12x24x12 (305x610x305)	5"	7988-4	9 rows of 4 = 36	190 (86.26)
EXB-12368 N34	12x36x8 (305x914x203)	5"	17620	14 rows of 4 = 56	231 (104.87)
EXB-123610 N34	12x36x10 (305x914x254)	6"	17620	14 rows of 4 = 56	245 (111.23)
EXB-14146 N34*	14x14x6 (356x356x152)	3"	17621	5 rows of 5 = 25	121 (54.93)
EXB-14148 N34*	14x14x8 (356x356x203)	5"	17621	5 rows of 5 = 25	136 (61.74)
EXB-16166 N34*	16x16x6 (406x406x152)	3"	7995-1	6 rows of 6 = 36	127 (57.66)
EXB-16168 N34	16x16x8 (406x406x203)	5"	7995-1	6 rows of 6 = 36	138 (62.65)
EXB-16248 N34	16x24x8 (406x610x203)	5"	17622	8 rows of 5 = 40	251 (113.95)
EXB-162410 N34	16x24x10 (406x610x254)	6"	17622	8 rows of 5 = 40	266 (120.76)
EXB-18186 N34	18x18x6 (457x457x152)	3"	17623	6 rows of 6 = 36	206 (93.52)
EXB-18188 N34	18x18x8 (457x457x203)	5"	17623	6 rows of 6 = 36	220 (99.88)
EXB-18248 N34	18x24x8 (457x610x203)	5"	15516	9 rows of 7 = 63	240 (108.96)
EXB-182410 N34	18x24x10 (457x610x254)	6"	15516	9 rows of 7 = 63	260 (118.04)
EXB-18308 N34	18x30x8 (457x762x203)	5"	22061	11 rows of 7 = 77	320 (145.28)
EXB-18368 N34	18x36x8 (457x914x203)	5"	15517	13 rows of 7 = 91	380 (172.52)
EXB-183610 N34	18x36x10 (457x914x254)	6"	15517	13 rows of 7 = 91	405 (183.87)
EXB-203611 N34	20x36x11 (508x914x279)	6"	17596	13 rows of 7 = 91	540 (245.16)
EXB-24248 N34	24x24x8 (610x610x203)	5"	8000-1	9 rows of 9 = 81	330 (149.82)
EXB-242410 N34	24x24x10 (610x610x254)	6"	8000-1	9 rows of 9 = 81	350 (158.90)
EXB-24308 N34	24x30x8 (610x762x203)	5"	20567	9 rows of 7 = 63	430 (195.22)
EXB-24368 N34	24x36x8 (610x914x203)	5"	17624	11 rows of 7 = 77	531 (241.07)
EXB-243610 N34	24x36x10 (610x914x254)	6"	17624	11 rows of 7 = 77	506 (229.72)



JUNCTION BOXES

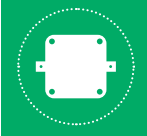


* Mounting lug opening 7/16" for boxes up to and including 8128 and 9/16" for boxes 10 x 10 and larger

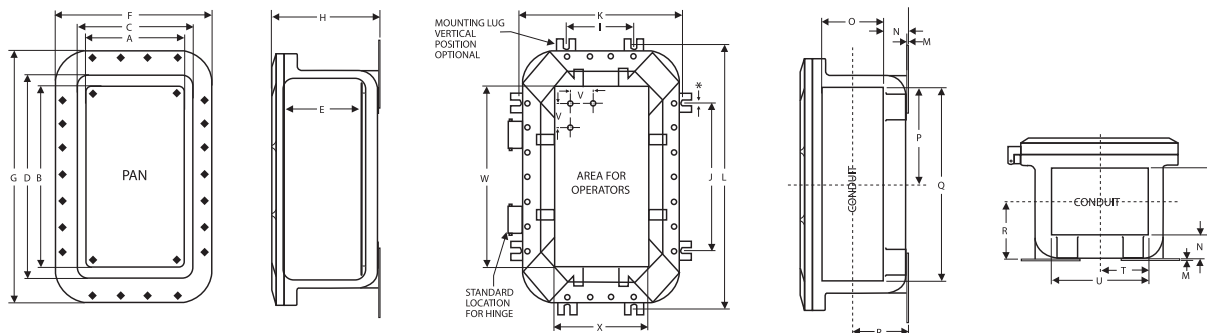
EXB DIMENSIONS

CATALOG NUMBER	INTERNAL DIMENSIONS - INCHES (MM)					EXTERNAL DIMENSIONS - INCHES (MM)				MOUNTING DIMENSIONS - INCHES (MM)				
	PAN		AVAILABLE FOR DEVICES			F	G	H	I	J	K	L	M	
	A	B	C	D	E									
EXB-664 N34	5 (127.0)	5 (127.0)	5.73 (145.5)	5.73 (145.5)	4.31 (109.47)	10.32 (262.13)	10.32 (262.13)	6.09 (154.69)	N/A	4.00 (101.60)	7.88 (200.15)	N/A	0.19 (4.83)	
EXB-886 N34	7 (177.8)	7 (177.8)	7.59 (192.8)	7.59 (192.8)	6.06 (153.92)	12.32 (312.93)	12.32 (312.93)	8.09 (205.49)	N/A	6.00 (152.40)	9.88 (250.95)	N/A	0.19 (4.83)	
EXB-8104 N34	7 (177.8)	9 (228.6)	7.73 (196.3)	9.73 (247.1)	4.06 (103.12)	12.32 (312.93)	14.32 (363.73)	6.32 (160.53)	N/A	8.00 (203.20)	9.88 (250.95)	N/A	0.19 (4.83)	
EXB-8106 N34	7 (177.8)	9 (228.6)	7.59 (192.8)	9.59 (243.6)	6.06 (153.92)	12.32 (312.93)	14.32 (363.73)	8.32 (211.33)	N/A	8.00 (203.20)	9.88 (250.95)	N/A	0.19 (4.83)	
EXB-8126 N34	7 (177.8)	11 (279.4)	8 (203.2)	12 (304.8)	6.38 (161.54)	13.25 (336.55)	17.25 (438.15)	8.70 (220.98)	3.82 (97.03)	7.82 (198.63)	10.38 (263.65)	14.38 (365.25)	0.19 (6.35)	
EXB-8128 N34	7 (177.8)	11 (279.4)	8 (203.2)	12 (304.8)	8.38 (212.34)	13.25 (336.55)	17.25 (438.15)	10.70 (271.78)	3.82 (97.03)	7.82 (198.63)	10.38 (263.65)	14.38 (365.25)	0.19 (6.35)	
EXB-10106 N34	9 (228.6)	9 (228.6)	10 (254.0)	10 (254.0)	6.20 (157.48)	15.25 (387.35)	15.25 (387.35)	8.90 (226.06)	4.94 (125.48)	4.94 (125.48)	12.94 (328.68)	12.94 (328.68)	0.25 (6.35)	
EXB-10108 N34	9 (228.6)	9 (228.6)	10 (254.0)	10 (254.0)	8.20 (208.28)	15.25 (387.35)	15.25 (387.35)	10.90 (276.86)	4.94 (125.48)	4.94 (125.48)	12.94 (328.68)	12.94 (328.68)	0.25 (6.35)	
EXB-10146 N34	9 (228.6)	13 (330.2)	10 (254.0)	14 (355.6)	6.20 (157.48)	15.25 (387.35)	19.25 (488.95)	8.90 (226.06)	4.94 (125.48)	8.94 (227.08)	12.94 (328.68)	16.94 (430.28)	0.25 (6.35)	
EXB-10148 N34	9 (228.6)	13 (330.2)	10 (254.0)	14 (355.6)	8.20 (208.28)	15.25 (387.35)	19.25 (488.95)	10.90 (276.86)	4.94 (125.48)	8.94 (227.08)	12.94 (328.68)	16.94 (430.28)	0.25 (6.35)	
EXB-12126 N34	10.5 (266.7)	10.5 (266.7)	11.5 (292.1)	11.5 (292.1)	6.00 (152.40)	16.38 (416.05)	16.38 (416.05)	8.69 (220.73)	6.94 (176.28)	6.94 (176.28)	14.94 (379.48)	14.94 (379.48)	0.25 (6.35)	
EXB-12128 N34	10.5 (266.7)	10.5 (266.7)	11.37 (288.8)	11.37 (288.8)	8.00 (203.20)	16.38 (416.05)	16.38 (416.05)	10.69 (271.53)	6.94 (176.28)	6.94 (176.28)	14.94 (379.48)	14.94 (379.48)	0.25 (6.35)	
EXB-12186 N34	10 (254.0)	16 (406.4)	11.5 (292.1)	17.5 (444.5)	6.00 (152.40)	16.38 (416.05)	22.38 (568.45)	9.06 (230.12)	6.94 (176.28)	12.88 (327.15)	14.94 (379.48)	20.88 (530.35)	0.25 (6.35)	
EXB-12188 N34	10 (254.0)	16 (406.4)	11.37 (288.8)	17.37 (441.2)	8.00 (203.20)	16.38 (416.05)	22.38 (568.45)	11.06 (280.92)	6.94 (176.28)	12.88 (327.15)	14.94 (379.48)	20.88 (530.35)	0.25 (6.35)	
EXB-12246 N34	10.25 (260.4)	22.25 (565.2)	11.5 (292.1)	23.5 (596.9)	6.00 (152.40)	16.38 (416.05)	28.38 (720.85)	9.32 (236.73)	6.94 (176.28)	18.88 (479.55)	14.94 (379.48)	26.88 (682.75)	0.25 (6.35)	
EXB-12248 N34	10.25 (260.4)	22.25 (565.2)	11.37 (288.8)	23.37 (593.6)	8.00 (203.20)	16.38 (416.05)	28.38 (720.85)	11.32 (287.53)	6.94 (176.28)	18.88 (479.55)	14.94 (379.48)	26.88 (682.75)	0.25 (6.35)	
EXB-122412 N34	10.25 (260.4)	22.25 (565.2)	11.37 (288.8)	23.37 (593.6)	12.00 (304.80)	16.38 (416.05)	28.38 (720.85)	15.32 (389.13)	6.94 (176.28)	18.88 (479.55)	14.94 (379.48)	26.88 (682.75)	0.25 (6.35)	
EXB-12368 N34	11 (279.4)	35 (889.0)	12 (304.8)	36 (914.4)	8.12 (206.25)	17.25 (438.15)	41.25 (1047.75)	11.40 (289.56)	7.00 (177.80)	31.00 (787.40)	15.00 (381.00)	39.00 (990.60)	0.25 (6.35)	
EXB-123610 N34	11 (279.4)	35 (889.0)	12 (304.8)	36 (914.4)	10.12 (257.05)	17.25 (438.15)	41.25 (1047.75)	13.40 (340.36)	7.00 (177.80)	31.00 (787.40)	15.00 (381.00)	39.00 (990.60)	0.25 (6.35)	
EXB-14146 N34	13 (330.2)	13 (330.2)	14 (355.6)	14 (355.6)	6.20 (157.48)	19.25 (488.95)	19.25 (488.95)	9.40 (238.76)	9.00 (228.60)	9.00 (228.60)	17.00 (431.80)	17.00 (431.80)	0.25 (6.35)	
EXB-14148 N34	13 (330.2)	13 (330.2)	14 (355.6)	14 (355.6)	8.20 (208.28)	19.25 (488.95)	19.25 (488.95)	11.40 (289.56)	9.00 (228.60)	9.00 (228.60)	17.00 (431.80)	17.00 (431.80)	0.25 (6.35)	
EXB-16166 N34	14 (355.6)	14 (355.6)	15.5 (393.7)	15.5 (393.7)	6.00 (152.40)	20.38 (517.65)	20.38 (517.65)	9.19 (233.43)	10.94 (277.88)	10.94 (277.88)	18.94 (481.08)	18.94 (481.08)	0.25 (6.35)	
EXB-16168 N34	14 (355.6)	14 (355.6)	15.37 (390.4)	15.37 (390.4)	8.00 (203.20)	20.38 (517.65)	20.38 (517.65)	11.19 (284.23)	10.94 (277.88)	10.94 (277.88)	18.94 (481.08)	18.94 (481.08)	0.25 (6.35)	
EXB-16248 N34	15 (381.0)	23 (584.2)	16 (406.4)	24 (609.6)	8.12 (206.25)	21.25 (539.75)	29.25 (742.95)	12.00 (304.80)	11.38 (289.05)	19.38 (492.25)	19.38 (492.25)	27.38 (695.45)	0.25 (6.35)	
EXB-162410 N34	15 (381.0)	23 (584.2)	16 (406.4)	24 (609.6)	10.12 (257.05)	21.25 (539.75)	29.25 (742.95)	14.00 (355.60)	11.38 (289.05)	19.38 (492.25)	19.38 (492.25)	27.38 (695.45)	0.25 (6.35)	
EXB-18186 N34	17 (431.8)	17 (431.8)	18 (457.2)	18 (457.2)	6.12 (155.45)	23.25 (590.55)	23.25 (590.55)	10.00 (254.00)	13.38 (339.85)	13.38 (339.85)	21.38 (543.05)	21.38 (543.05)	0.25 (6.35)	
EXB-18188 N34	17 (431.8)	17 (431.8)	18 (457.2)	18 (457.2)	8.12 (206.25)	23.25 (590.55)	23.25 (590.55)	12.00 (304.80)	13.38 (339.85)	13.38 (339.85)	21.38 (543.05)	21.38 (543.05)	0.25 (6.35)	
EXB-18248 N34	16.38 (416.1)	22.13 (562.1)	17.37 (441.2)	23.37 (593.6)	8.00 (203.20)	22.38 (568.45)	28.38 (720.85)	11.75 (298.45)	13.00 (330.20)	19.00 (482.60)	21.00 (533.40)	27.00 (685.80)	0.25 (6.35)	
EXB-182410 N34	16.38 (416.1)	22.13 (562.1)	17.23 (437.6)	23.23 (590.0)	10.00 (254.00)	22.38 (568.45)	28.38 (720.85)	13.75 (349.25)	13.00 (330.20)	19.00 (482.60)	21.25 (539.75)	27.00 (685.80)	0.25 (6.35)	
EXB-18308 N34	16 (406.4)	29 (736.6)	17.87 (453.9)	30.8 (782.3)	8.00 (203.20)	22.37 (568.20)	35.37 (898.40)	12.37 (314.20)	13.25 (336.55)	26.5 (673.10)	21.00 (533.40)	34.50 (876.30)	0.25 (6.35)	
EXB-18368 N34	16 (406.4)	34 (863.6)	17.37 (441.2)	35.37 (898.4)	8.00 (203.20)	22.38 (568.45)	40.38 (1025.65)	12.38 (314.45)	13.25 (336.55)	31.50 (800.10)	21.25 (539.75)	39.50 (1003.30)	0.25 (6.35)	
EXB-183610 N34	16 (406.4)	34 (863.6)	17.23 (437.6)	35.23 (894.8)	10.00 (254.00)	22.38 (568.45)	40.38 (1025.65)	14.38 (365.25)	13.25 (336.55)	31.50 (800.10)	21.25 (539.75)	39.50 (1003.30)	0.25 (6.35)	
EXB-203611 N34	18.75 (476.3)	34.75 (882.7)	20.14 (511.6)	36.14 (918.0)	11.13 (282.70)	26.44 (671.58)	42.44 (1077.98)	15.56 (395.22)	15.75 (400.05)	31.75 (806.45)	23.75 (603.25)	39.75 (1009.65)	0.25 (6.35)	
EXB-24248 N34	22.25 (565.2)	22.25 (565.2)	23.37 (593.6)	23.37 (593.6)	8.06 (204.72)	28.38 (720.85)	28.38 (720.85)	12.19 (309.63)	19.50 (495.30)	19.50 (495.30)	27.50 (698.50)	27.50 (698.50)	0.25 (6.35)	
EXB-242410 N34	22.25 (565.2)	22.25 (565.2)	23.23 (590.0)	23.23 (590.0)	10.06 (255.52)	28.38 (720.85)	28.38 (720.85)	14.19 (360.43)	19.50 (495.30)	19.50 (495.30)	27.50 (698.50)	27.50 (698.50)	0.25 (6.35)	
EXB-24308 N34	23 (584.2)	29 (736.6)	24 (609.6)	30 (762.0)	8.12 (206.25)	29.25 (742.95)	35.25 (895.35)	12.40 (314.96)	19.56 (496.82)	25.56 (649.23)	27.56 (700.03)	33.56 (852.43)	0.25 (6.35)	
EXB-24368 N34	23 (584.2)	35 (889.0)	24 (609.6)	36 (914.4)	8.12 (206.25)	29.25 (742.95)	41.25 (1047.75)	12.40 (314.96)	19.56 (496.82)	31.56 (801.63)	27.56 (700.03)	39.56 (1004.83)	0.25 (6.35)	
EXB-243610 N34	23 (584.2)	35 (889.0)	24 (609.6)	36 (914.4)	10.12 (257.05)	29.25 (742.95)	41.25 (1047.75)	14.40 (365.76)	19.56 (496.82)	31.56 (801.63)	27.56 (700.03)	39.56 (1004.83)	0.25 (6.35)	

Full dimensional details are available on .DFX or .DWG format. See Killark website.



ENCLOSURES EXB SERIES



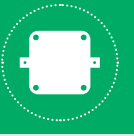
* Mounting lug opening 7/16" for boxes up to and including 8128 and 9/16" for boxes 10 x 10 and larger

EXB CONDUIT AND OPERATOR LAYOUT INFORMATION

CATALOG NUMBER	CONDUIT AREA										OPERATOR AREA AND SPECS		GZ OPERATOR TYPE	GO OPERATOR TYPE
	N	O	P	Q	R	S	T	U	V	W	X			
EXB-664 N34	1.18 (30.0)	2.81 (71.4)	2.44 (62.0)	4.88 (124.0)	2.75 (69.85)	2.81 (71.37)	2.44 (61.98)	4.88 (123.95)	2.5 (63.50)	5 (127.00)	5 (127.00)	Use "LONG"		
EXB-886 N34	1.18 (30.0)	4.81 (122.2)	3.44 (87.4)	6.88 (174.8)	3.75 (95.25)	4.81 (122.17)	3.44 (87.38)	6.88 (174.75)	2.5 (63.50)	7 (177.80)	7 (177.80)			
EXB-8104 N34	1.18 (30.0)	2.81 (71.4)	4.44 (112.8)	8.88 (225.6)	2.75 (69.85)	2.81 (71.37)	3.44 (87.38)	6.88 (174.75)	2.5 (63.50)	9 (228.60)	7 (177.80)			
EXB-8106 N34	1.18 (30.0)	4.18 (106.2)	4.44 (112.8)	8.88 (225.6)	3.45 (87.63)	4.81 (122.17)	3.44 (87.38)	6.88 (174.75)	2.5 (63.50)	9 (228.60)	7 (177.80)			
EXB-8126 N34	1.78 (45.2)	3.75 (95.3)	5 (127.0)	10 (254.0)	3.66 (92.96)	3.75 (95.25)	3 (76.20)	6 (152.40)	2.5 (63.50)	11 (279.40)	7 (177.80)			
EXB-8128 N34	1.78 (45.2)	5.75 (146.1)	5 (127.0)	10 (254.0)	4.66 (118.36)	5.75 (146.05)	3 (76.20)	6 (152.40)	2.5 (63.50)	11 (279.40)	7 (177.80)			
EXB-10106 N34	1.91 (48.5)	3.75 (95.3)	4 (101.6)	8 (203.2)	3.79 (96.27)	3.75 (95.25)	4 (101.60)	8 (203.20)	2.5 (63.50)	9 (228.60)	9 (228.60)			
EXB-10108 N34	1.91 (48.5)	5.75 (146.1)	4 (101.6)	8 (203.2)	4.79 (121.67)	5.75 (146.05)	4 (101.60)	8 (203.20)	2.5 (63.50)	9 (228.60)	9 (228.60)			
EXB-10146 N34	1.91 (48.5)	3.75 (95.3)	6 (152.4)	12 (304.8)	3.79 (96.27)	3.75 (95.25)	4 (101.60)	8 (203.20)	2.5 (63.50)	13 (330.20)	9 (228.60)			
EXB-10148 N34	1.91 (48.5)	5.75 (146.1)	6 (152.4)	12 (304.8)	4.79 (121.67)	5.75 (146.05)	4 (101.60)	8 (203.20)	2.5 (63.50)	13 (330.20)	9 (228.60)			
EXB-12126 N34	1.88 (47.8)	3.81 (96.8)	4.94 (125.5)	9.88 (251.0)	4.00 (101.60)	3.81 (96.77)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	10 (254.00)	10 (254.00)			
EXB-12128 N34	1.88 (47.8)	5.81 (147.6)	4.94 (125.5)	9.88 (251.0)	5.00 (127.00)	5.81 (147.57)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	10 (254.00)	10 (254.00)			
EXB-12186 N34	2.06 (52.3)	3.13 (79.5)	7.94 (201.7)	15.88 (403.4)	3.88 (98.55)	3.75 (95.25)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	16 (406.40)	10 (254.00)			
EXB-12188 N34	2.06 (52.3)	5.13 (130.3)	7.94 (201.7)	15.88 (403.4)	4.88 (123.95)	5.75 (146.05)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	16 (406.40)	10 (254.00)			
EXB-12246 N34	2.13 (54.1)	3.13 (79.5)	10.94 (277.9)	21.88 (555.8)	3.94 (100.08)	3.81 (96.77)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	22.25 (565.15)	10.25 (260.35)			
EXB-12248 N34	2.13 (54.1)	5.13 (130.3)	10.94 (277.9)	21.88 (555.8)	4.94 (125.48)	5.81 (147.57)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	22.25 (565.15)	10.25 (260.35)			
EXB-122412 N34	2.13 (54.1)	9.13 (231.9)	10.94 (277.9)	21.88 (555.8)	6.94 (176.28)	9.81 (249.17)	4.94 (125.48)	9.88 (250.95)	2.5 (63.50)	22.25 (565.15)	10.25 (260.35)			
EXB-12368 N34	2.09 (53.1)	5.75 (146.1)	17 (431.8)	34 (863.6)	4.97 (126.24)	5.75 (146.05)	5 (127.00)	10 (254.00)	2.5 (63.50)	35 (889.00)	11 (279.40)			
EXB-123610 N34	2.09 (53.1)	7.75 (196.9)	17 (431.8)	34 (863.6)	5.97 (151.64)	7.75 (196.85)	5 (127.00)	10 (254.00)	2.5 (63.50)	35 (889.00)	11 (279.40)			
EXB-14146 N34	2.09 (53.1)	3.75 (95.3)	6 (152.4)	12 (304.8)	3.97 (100.84)	3.75 (95.25)	6 (152.40)	12 (304.80)	2.5 (63.50)	13 (330.20)	13 (330.20)			
EXB-14148 N34	2.09 (53.1)	5.75 (146.1)	6 (152.4)	12 (304.8)	4.97 (126.24)	5.75 (146.05)	6 (152.40)	12 (304.80)	2.5 (63.50)	13 (330.20)	13 (330.20)			
EXB-16166 N34	2.06 (53.1)	3.75 (95.3)	6.94 (176.3)	13.88 (352.6)	4.18 (106.17)	3.75 (95.25)	6.94 (176.28)	13.88 (352.55)	2.5 (63.50)	14 (355.60)	14 (355.60)			
EXB-16168 N34	2.06 (53.1)	5.75 (146.1)	6.94 (176.3)	13.88 (352.6)	5.18 (131.57)	5.75 (146.05)	6.94 (176.28)	13.88 (352.55)	2.5 (63.50)	14 (355.60)	14 (355.60)			
EXB-16248 N34	2.34 (59.4)	5.75 (146.1)	11 (279.4)	22 (558.8)	5.22 (132.59)	5.75 (146.05)	7 (177.80)	14 (355.60)	2.5 (63.50)	22 (558.80)	14 (355.60)			
EXB-162410 N34	2.34 (59.4)	7.75 (196.9)	11 (279.4)	22 (558.8)	6.22 (157.99)	7.75 (196.85)	7 (177.80)	14 (355.60)	2.5 (63.50)	22 (558.80)	14 (355.60)			
EXB-18186 N34	2.34 (59.4)	3.75 (95.3)	8 (203.2)	16 (406.4)	4.22 (107.19)	3.75 (95.25)	8 (203.20)	16 (406.40)	2.5 (63.50)	16 (406.40)	16 (406.40)			
EXB-18188 N34	2.34 (59.4)	5.75 (146.1)	8 (203.2)	16 (406.4)	5.22 (132.59)	5.75 (146.05)	8 (203.20)	16 (406.40)	2.5 (63.50)	16 (406.40)	16 (406.40)			
EXB-18248 N34	2.32 (58.9)	4.88 (124.0)	10.94 (277.9)	21.88 (555.8)	5.00 (127.00)	5.56 (141.22)	7.94 (201.68)	15.88 (403.35)	2.5 (63.50)	22 (558.80)	16 (406.40)			
EXB-182410 N34	2.32 (58.9)	6.88 (174.8)	10.94 (277.9)	21.88 (555.8)	6.00 (152.40)	8.56 (217.42)	7.94 (201.68)	15.88 (403.35)	2.5 (63.50)	22 (558.80)	16 (406.40)			
EXB-18308 N34	2.50 (63.5)	4.88 (124.0)	14.44 (366.8)	28.88 (733.6)	5.18 (131.57)	6.06 (153.92)	7.94 (201.68)	15.88 (403.35)	2.5 (63.50)	29 (736.60)	16 (406.40)			
EXB-18368 N34	2.50 (63.5)	4.88 (124.0)	16.94 (430.3)	33.88 (860.6)	5.18 (131.57)	6.06 (153.92)	7.94 (201.68)	15.88 (403.35)	2.5 (63.50)	34 (863.60)	16 (406.40)			
EXB-183610 N34	2.50 (63.5)	6.88 (174.8)	16.94 (430.3)	33.88 (860.6)	6.18 (156.97)	8.06 (204.72)	7.94 (201.68)	15.88 (403.35)	2.5 (63.50)	34 (863.60)	16 (406.40)			
EXB-203611 N34	2.47 (62.7)	8.44 (214.4)	16.72 (424.7)	33.97 (862.8)	6.88 (174.75)	8.47 (215.14)	8.72 (221.49)	17.47 (443.74)	2.5 (63.50)	34.88 (885.95)	18.88 (479.55)			
EXB-24248 N34	2.88 (73.2)	5.50 (139.7)	10.88 (276.4)	21.88 (555.8)	5.88 (149.35)	5.50 (139.70)	10.94 (277.88)	21.88 (555.75)	2.5 (63.50)	22 (558.80)	22 (558.80)			
EXB-242410 N34	2.88 (73.2)	7.50 (190.5)	10.88 (276.4)	21.88 (555.8)	6.88 (174.75)	7.50 (190.50)	10.94 (277.88)	21.88 (555.75)	2.5 (63.50)	22 (558.80)	22 (558.80)			
EXB-24308 N34	2.47 (62.7)	5.75 (146.1)	14 (355.6)	28 (711.2)	5.35 (135.89)	5.75 (146.05)	11 (279.40)	22 (558.80)	3.0 (76.20)	28 (711.20)	22 (558.80)			
EXB-24368 N34	2.47 (62.7)	5.75 (146.1)	17 (431.8)	34 (863.6)	5.35 (135.89)	5.75 (146.05)	11 (279.40)	22 (558.80)	3.0 (76.20)	34 (863.60)	22 (558.80)			
EXB-243610 N34	2.47 (62.7)	7.75 (196.9)	17 (431.8)	34 (863.6)	6.35 (161.29)	7.75 (196.85)	11 (279.40)	22 (558.80)	3.0 (76.20)	34 (863.60)	22 (558.80)			

All dimension in. (mm)

Full dimensional details are available on .DFX or .DWG format. See KILLARK web-site.



CONDUIT OPENING DATA

Instructions

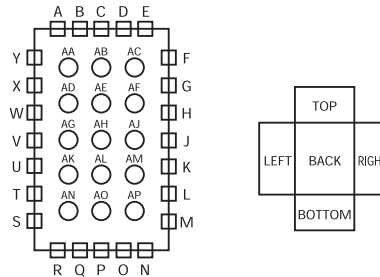
Drilled and tapped conduit openings will be evenly spaced and located in the area indicated on the location chart. Critical conduit opening locations may be indicated by supplying a diagram similar to the one shown at right indicating critical dimensions and locations. Specific conduit openings must be located dimensionally from box centerlines to conduit centerlines and from outside back surface of box to conduit centerline.

Ordering Information:

- (1) Select the letter on location chart which indicates conduit opening position desired.
- (2) Select symbol number from chart which indicates conduit opening type and size.

- (3) Combine the conduit location letter, size and type number, and add as a suffix to junction box catalog number.

Example: EXB-12248 N34-C3-J5-PI3-AH4



Drawing indicates position as looking into open face of box with short side (top) up.

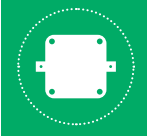
EXB/EXBLT/B7/GR SYMBOL NUMBERS		
CONDUIT SIZE	CONDUIT OPENINGS DRILLED AND TAPPED	UNION
1/2"	1	11
3/4"	2	12
1"	3	13
1-1/4"	4	14
1-1/2"	5	15
2"	6	16
2-1/2"	7	17
3"	8	18
3-1/2"	9	19
4"	0	10
5"	02	—
6"	04	—

Union = GUM series male NPT unions

EXB/EXBLT/B7/GR - MINIMUM CENTER TO CENTER SPACING FOR DRILLED AND TAPPED OPENINGS AND UNION HUBS													
NPT (METRIC)	SPACE CENTERS	1/2" (M16)	3/4" (M20)	1" (M25)	1-1/4" (M32)	1-1/2" (M40)	2" (M50)	2-1/2" (M63)	3" (M75)	3-1/2" (M80)	4" (M100)	5"	6"
1/2" (M16)	MIN	1.18 (30)	—	—	—	—	—	—	—	—	—	—	—
	PRE	1.38 (35)	—	—	—	—	—	—	—	—	—	—	—
	GU	1.63 (41)	—	—	—	—	—	—	—	—	—	—	—
3/4" (M20)	MIN	1.38 (35)	1.5 (38)	—	—	—	—	—	—	—	—	—	—
	PRE	1.5 (38)	1.63 (41)	—	—	—	—	—	—	—	—	—	—
	GU	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—	—
1" (M25)	MIN	1.5 (38)	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—
	PRE	1.75 (44)	1.88 (48)	2 (108)	—	—	—	—	—	—	—	—	—
	GU	1.88 (48)	2 (108)	2.13 (54)	—	—	—	—	—	—	—	—	—
1-1/4" (M32)	MIN	1.69 (43)	1.94 (49)	2.06 (52)	2.31 (59)	—	—	—	—	—	—	—	—
	PRE	1.94 (49)	2.06 (52)	2.25 (57)	2.5 (64)	—	—	—	—	—	—	—	—
	GU	2.06 (52)	2.25 (57)	2.31 (59)	2.5 (64)	—	—	—	—	—	—	—	—
1-1/2" (M40)	MIN	1.94 (49)	2.06 (52)	2.19 (56)	2.5 (64)	2.63 (67)	—	—	—	—	—	—	—
	PRE	2.13 (54)	2.25 (57)	2.38 (60)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
	GU	2.19 (56)	2.28 (58)	2.44 (62)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
2" (M50)	MIN	2.25 (57)	2.38 (60)	2.56 (65)	2.81 (71)	2.94 (75)	3.19 (81)	—	—	—	—	—	—
	PRE	2.38 (60)	2.5 (64)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
	GU	2.5 (64)	2.59 (66)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
2-1/2" (M63)	MIN	2.44 (62)	2.56 (65)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	—	—	—	—	—
	PRE	2.63 (67)	2.75 (70)	3 (76)	3.25 (82)	3.38 (86)	3.63 (92)	4 (102)	—	—	—	—	—
	GU	3.13 (97)	3.22 (82)	3.38 (86)	3.56 (90)	3.69 (94)	4 (102)	4.63 (117)	—	—	—	—	—
3" (M75)	MIN	2.81 (71)	2.94 (75)	3.06 (78)	3.31 (84)	3.44 (87)	3.75 (95)	4 (102)	4.31 (110)	—	—	—	—
	PRE	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	3.75 (95)	4 (102)	4.38 (111)	4.75 (121)	—	—	—	—
	GU	3.56 (90)	3.66 (93)	3.81 (97)	4 (102)	4.13 (105)	4.44 (113)	5.06 (129)	5.5 (140)	—	—	—	—
3-1/2" (M80)	MIN	3.13 (97)	3.25 (82)	3.38 (86)	3.63 (92)	3.75 (95)	4.06 (103)	4.31 (110)	4.63 (117)	4.94 (125)	—	—	—
	PRE	3.38 (86)	3.5 (89)	3.63 (92)	3.88 (98)	4 (102)	4.38 (111)	4.63 (117)	5 (127)	5.38 (136)	—	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	—	—	—
4" (M100)	MIN	3.44 (87)	3.56 (90)	3.69 (94)	3.94 (100)	4.06 (103)	4.38 (111)	4.63 (117)	4.94 (125)	5.25 (133)	5.56 (141)	—	—
	PRE	3.75 (95)	3.88 (98)	4 (102)	4.25 (108)	4.38 (111)	4.75 (121)	5 (127)	5.75 (146)	5.63 (143)	6 (152)	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	6.38 (162)	—	—
5"	MIN	4.13 (105)	4.25 (108)	4.38 (111)	4.63 (117)	4.75 (121)	5 (127)	5.25 (133)	5.56 (141)	5.88 (149)	6.19 (157)	6.19 (157)	—
	PRE	4.38 (111)	4.5 (114)	4.63 (117)	4.88 (124)	5 (127)	5.38 (136)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7.25 (184)	—
6"	MIN	4.75 (121)	4.88 (124)	5 (127)	5.25 (133)	5.38 (136)	5.63 (143)	5.88 (149)	6.19 (157)	6.5 (165)	6.81 (173)	7.44 (190)	8.13 (206)
		5 (127)	5.13 (130)	5.25 (133)	5.5 (140)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7 (178)	7.25 (184)	8 (203)	8.63 (220)
LOCKNUT O.D.		1.25 (32)	1.13 (29)	1.69 (43)	2.19 (56)	2.44 (62)	3 (76)	3.44 (87)	4.19 (106)	4.81 (122)	5.38 (136)	6.69 (170)	7.94 (202)
CONDUIT BUSHING		1 (25)	1.25 (32)	1.5 (38)	1.88 (48)	2.13 (54)	2.63 (67)	3.19 (81)	3.88 (98)	4.44 (113)	5 (127)	6.25 (159)	7.38 (187)
CONDUIT O.D.			1.06 (27)	1.38 (35)	1.69 (43)	1.94 (49)	2.38 (60)	2.88 (73)	3.5 (89)	4 (102)	4.5 (114)	5.56 (141)	6.63 (168)

All dimension in. (mm)

MIN: The minimum space required to provide enough clearance over locknuts and bushings.
PRE: The preferred more liberal center to center spacing of openings. To be used whenever possible.
GU: The required spacing between openings using GUM Series male NPT unions.



ENCLOSURES
EXB SERIES

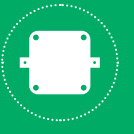
REPLACEMENT PARTS								
ENCLOSURE CATALOG NUMBER	COVER GASKET	MOUNTING LUG KIT CONTAINS FOUR MOUNTING LUGS AND HARDWARE	COVER BOLTS - SOLD PER EACH					HINGES
			NO. OF BOLTS PER ENCLOSURE	CARBON STEEL "N34"	316 STAINLESS STEEL "SU1"	316 STAINLESS STEEL TRI-LEAD "SUTL"	ATEX IEC EX 316 STAINLESS STEEL "CEN"	EXB BOXES (*) ADD "L" FOR LEFT OR "R" FOR RIGHT
EXB-664 N34	EXB66RG	EXB-MTL1	8	0725115B	25952BAAB	xxxxx	20790AAAB	HINGE-12*
EXB-886 N34	EXB88RG	EXB-MTL1	12	0725115B	25952BAAB	xxxxx	20790AAAB	HINGE-12*
EXB-8104 N34	EXB810RG	EXB-MTL1	14	0725115B	25952BAAB	xxxxx	20790AAAB	HINGE-12*
EXB-8106 N34	EXB810RG	EXB-MTL1	14	0725115B	25952BAAB	xxxxx	20790AAAB	HINGE-12*
EXB-8126 N34	EXB812RG	EXB-MTL1	12	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-8128 N34	EXB812RG	EXB-MTL1	12	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-10106 N34	EXB1010RG	EXB-MTL2	12	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-10108 N34	EXB1010RG	EXB-MTL2	12	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-10146 N34	EXB1014RG	EXB-MTL2	16	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-10148 N34	EXB1014RG	EXB-MTL2	16	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12126 N34	EXB1212RG	EXB-MTL2	16	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12128 N34	EXB1212RG	EXB-MTL2	16	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12186 N34	EXB1212RG	EXB-MTL2	22	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12188 N34	EXB1212RG	EXB-MTL2	22	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12246 N34	EXB1224RG	EXB-MTL2	28	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12248 N34	EXB1224RG	EXB-MTL2	28	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-122412 N34	EXB1224RG	EXB-MTL2	28	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-12368 N34	EXB1236RG	EXB-MTL2	38	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-123610 N34	EXB1236RG	EXB-MTL2	38	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-14146 N34	EXB1414RG	EXB-MTL2	20	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-14148 N34	EXB1414RG	EXB-MTL2	20	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-16166 N34	EXB1616RG	EXB-MTL2	24	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-16168 N34	EXB1616RG	EXB-MTL2	24	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-16248 N34	EXB1624RG	EXB-MTL2	30	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-162410 N34	EXB1624RG	EXB-MTL2	30	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-18186 N34	EXB1818RG	EXB-MTL2	24	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-18188 N34	EXB1818RG	EXB-MTL2	24	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-11*
EXB-18248 N34	EXB1824RG	EXB-MTL2	34	0720362B	25952CAAB	17339AAAB	20790CAAB	HINGE-10*
EXB-182410 N34	EXB1824RG	EXB-MTL2	34	0720362B	25952CAAB	17339AAAB	20790CAAB	HINGE-10*
EXB-18308 N34	EXB1830RG	EXB-MTL2	40	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-18368 N34	EXB1836RG	EXB-MTL2	44	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-183610 N34	EXB1836RG	EXB-MTL2	44	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-203611 N34	EXB2036RG	EXB-MTL2	48	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-24248 N34	EXB2424RG	EXB-MTL2	40	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-242410 N34	EXB2424RG	EXB-MTL2	40	0720362B	25952CAAB	xxxxx	20790CAAB	HINGE-10*
EXB-24308 N34	EXB2430RG	EXB-MTL2	50	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-10*
EXB-24368 N34	EXB2436RG	EXB-MTL2	56	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-10*
EXB-243610 N34	EXB2436RG	EXB-MTL2	56	0720361B	25952AAAB	17339AAAB	20790BAAB	HINGE-10*

Hinges

Hinges are provided as a standard on the EXB-8126 N4 and larger sizes. See the replacement part chart for the hinge's catalog number. Hinges are sold in sets of two. For hinges to be installed on smaller sizes add suffix "SU2" to catalog number.

Touch-Up Paint

The touch-up paint comes in a 12 oz aerosol can. Wet laquer silver gray touch-up paint: KTPALS Epoxy powder gray touch-up paint is a wet lacquer: KTPEPG



BLANK MOUNTING PANS

EXB / EXBLT Series Mounting Pans Ordering Instructions

Select proper mounting pan based on inside (length and width) of box. Order and price as separate item from junction box catalog number.

EXAMPLE:

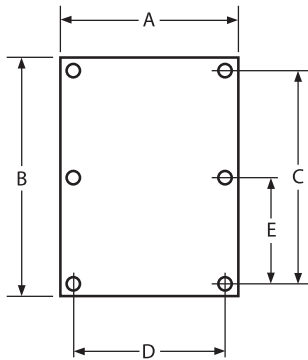
EXB-12186N34 (box) } assembly
15155 (mounting pan)

EXB / EXBLT Series boxes have cast bosses which are drilled and tapped for direct mounting when pans are ordered.

Mounting pans are 1/8" or 3-16" thick sheet aluminum and are sized to provide the maximum usable surface area when installed.

All EXB / EXBLT series boxes have internal bosses that are factory machined to accept mounting pans.

Dimensions



CATALOG NUMBER	NOMINAL INSIDE BOX SIZE		MOUNTING PAN DIMENSION		MOUNTING HOLE SPACINGS			PAN THICKNESS
	WIDTH	LENGTH	A WIDTH	B LENGTH	C	D	E	
7997-5	6"	6"	5"	5"	3"	3"	—	.125
7997-1	6"	8"	5"	7"	5"	3"	—	.125
7997-6	6"	12"	5"	11"	9"	3"	—	.125
7996-1	8"	8"	7"	7"	5"	5"	—	.125
7996-2	8"	10"	7"	9"	7"	5"	—	.125
17619	8"	12"	7"	11"	9"	5"	—	.125
17617	10"	14"	9"	13"	11"	7"	—	.125
17618	10"	10"	9"	9"	7"	7"	—	.125
7988-1	12"	12"	10-1/2"	10-1/2"	9"	9"	—	.125
15515	12"	18"	10"	16"	15"	9"	—	.125
7988-4	12"	24"	10-1/4"	22-1/4"	21"	9"	—	.125
17620	12"	36"	11"	35"	33"	9"	17-1/2"	.125
17621	14"	14"	13"	13"	11"	11"	—	.125
51705-1	14"	24"	12-1/2"	22-1/2"	11"	21"	—	.125
51698-1	14"	30"	12-1/2"	28-1/2"	11"	27"	13-1/2"	.125
7995-1	16"	16"	14"	14"	13"	13"	—	.125
7995-2	16"	24"	14-1/2"	23"	21"	13"	—	.125
17622	16"	24"	15"	23"	21"	13"	—	.125
17623	18"	18"	17"	17"	15"	15"	—	.190
15516	18"	24"	16-3/8"	22-1/8"	21"	15"	—	.125
22061	18"	30"	16"	29"	28"	15"	14"	.125
15517	18"	36"	16"	34"	33"	15"	16-1/2"	.125
17596	20"	36"	18-3/4"	34-3/4"	32-3/4"	16-3/4"	16-3/8"	.190
8000-1	24"	24"	22-1/4"	22-1/4"	21"	21"	—	.125
17624	24"	36"	23"	35"	33"	21"	16-1/2"	.190
20567	24"	30"	23"	29"	27"	21"	13-1/2"	.190

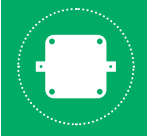
HINGES



HINGE-10L and HINGE-10R
HINGE-11L and HINGE-11R
HINGE-12L and HINGE-12R

For use with all EXB & EXBLT series boxes. Set of two hinges installed on flanged enclosures for easier and safer installation and maintenance of internal components.

HINGES		
CATALOG NUMBER	SERIES USED	MOUNTING SIDE
HINGE-10L	Larger sizes EXB / EXBLT	Left
HINGE-10R		Right
HINGE-11L	Mid Sizes EXB / EXBLT	Left
HINGE-11R		Right
HINGE-12L	Small EXB / EXBLT	Left
HINGE-12R		Right



ENCLOSURES

EXB / EXBLT OPTIONS

ROUND GLASS LENS COVERS / RECTANGULAR VIEWING WINDOWS



GL Series

GL ROUND GLASS LENS COVERS

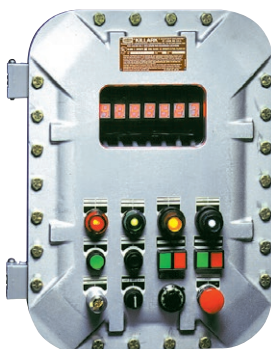
For use with all EXB and EXBLTC series boxes.

Tempered soda lime glass mounted into a copper free sand cast aluminum threaded frame. Five viewing sizes, 2.75" through 7.75". Factory installation only.

Maintains all third party certifications of the EXBs and EXBLTCs.

GL RECOMMENDED MINIMUM SPACING – CENTERLINE TO CENTERLINE							VIEWING DIAMETER	OUTSIDE DIAMETER
GLASS LENS TYPE	GL-275	GL-300	GL-375	GL-537	GL-600	GL-775		
GL-275	7 (177.8)	7.5 (190.5)	7.75 (196.9)	8.75 (222.3)	9 (228.6)	10 (254.0)	2.75 (69.9)	4.63 (117.6)
GL-300	7.5 (190.5)	8 (203.2)	8.25 (209.6)	9.25 (235.0)	9.5 (241.3)	10.5 (266.7)	2.93 (74.4)	5.25 (133.4)
GL-375	7.75 (196.9)	8.25 (209.6)	8.5 (215.9)	9.5 (241.3)	9.75 (247.7)	10.75 (273.1)	3.75 (95.3)	6.25 (158.8)
GL-537	8.75 (222.3)	9.25 (235.0)	9.5 (241.3)	10.5 (266.7)	10.75 (273.1)	11.75 (298.5)	5.38 (136.7)	7.88 (200.2)
GL-600	9 (228.6)	9.5 (241.3)	9.75 (247.7)	10.75 (273.1)	11 (279.4)	12 (304.8)	6 (152.4)	8.88 (225.6)
GL-775	10 (254.0)	10.5 (266.7)	10.75 (273.1)	11.75 (298.5)	12 (304.8)	13 (330.2)	7.75 (196.9)	10.25 (260.4)

Note: For spacing less than minimum in table, (shown in inches) consult factory.



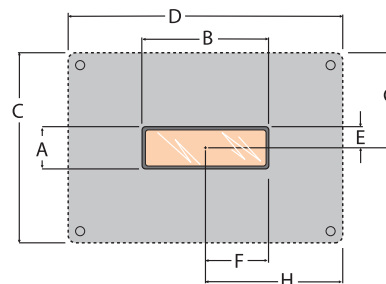
GLXR Series

GLXR RECTANGULAR VIEWING WINDOWS

For use with all EXB and EXBLTC series boxes. Tempered soda lime glass viewing lens. Additional viewing sizes available contact the factory for information.

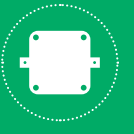
Factory installation only.

Maintains all third party certifications of the EXBs and EXBLTCs.

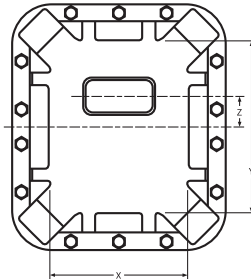


GLXR RECTANGULAR LENS COVER ASSEMBLIES								
CATALOG NUMBER	VIEWING AREA		MINIMUM SPACE		OTHER DIMENSIONS			
	A	B	C	D	E	F	G	H
GLXR13	1 (25.4)	3 (76.2)	4.5 (114.3)	6.5 (165.1)	0.5 (12.7)	1.5 (38.1)	2.25 (57.2)	3.25 (82.6)
GLXR24	2 (50.8)	4 (101.6)	5.5 (139.7)	7.5 (190.5)	1 (25.4)	2 (50.8)	2.72 (69.1)	3.75 (95.3)
GLXR27	2 (50.8)	7 (177.8)	5.5 (139.7)	10.5 (266.7)	1 (25.4)	3.5 (88.9)	2.75 (69.9)	5.25 (133.4)
GLXR34	3.5 (88.9)	4 (101.6)	7 (177.8)	7.5 (190.5)	1.75 (44.5)	2 (50.8)	3.5 (88.9)	3.75 (95.3)
GLXR36	3 (76.2)	6 (152.4)	6.5 (165.1)	9.5 (241.3)	1.5 (38.1)	3 (76.2)	3.25 (82.6)	4.75 (120.7)
GLXR47	4 (101.6)	7 (177.8)	7.5 (190.5)	10.5 (266.7)	2 (50.8)	3.5 (88.9)	3.75 (95.3)	5.25 (133.4)
GLXR59	5 (127.0)	9 (228.6)	8.5 (215.9)	12.5 (317.5)	2.5 (63.5)	4.5 (114.3)	4.25 (108.0)	6.25 (158.8)
GLXR99	9 (228.6)	9 (228.6)	12.5 (317.5)	12.5 (317.5)	4.5 (114.3)	4.5 (114.3)	6.25 (158.8)	6.25 (158.8)

All dimension in. (mm)



GLASS LENS COVER



GLXR LAYOUT GUIDE

CATALOG NUMBER	USEABLE COVER AREA		Z = MAXIMUM CENTER LINE OF COVER TO CENTERLINE OF GLASS LENS							
	X	Y	GLXR13	GLXR24	GLXR27	GLXR34	GLXR36	GLXR47	GLXR59	GLXR99
EXBLTC-684	5 (127)	7 (178)	1.25 (32)	N	N	N	N	N	N	N
EXBLTC-686	5 (127)	7 (178)	1.25 (32)	N	N	N	N	N	N	N
EXBLTC-6124	5 (127)	11 (279)	3.25 (83)	R	N	N	N	N	N	N
EXBLTC-6126	5 (127)	11 (279)	3.25 (83)	R	N	N	N	N	N	N
EXB/EXBLTC-886	7 (178)	7 (178)	1.25 (32)	0.75 (19)	N	N	N	N	N	N
EXB/EXBLTC-8104	7 (178)	9 (229)	2.25 (57)	1.75 (44)	N	1 (25)	N	N	N	N
EXB/EXBLTC-8106	7 (178)	9 (229)	2.25 (57)	1.75 (44)	N	1 (25)	N	N	N	N
EXB/EXBLTC-8126	7 (178)	11 (279)	3.25 (83)	2.75 (70)	N	2 (51)	N	N	N	N
EXB/EXBLTC-8128	7 (178)	11 (279)	3.25 (83)	2.75 (70)	N	2 (51)	N	N	N	N
EXBLTC-9116	8 (203)	10 (254)	2.75 (70)	2.25 (57)	N	1.5 (38)	N	N	N	N
EXB/EXBLTC-10106	9 (229)	9 (229)	2.25 (57)	1.75 (44)	N	1 (25)	N	N	N	N
EXB/EXBLTC-10108	9 (229)	9 (229)	2.25 (57)	1.75 (44)	N	1 (25)	N	N	N	N
EXB/EXBLTC-10146	9 (229)	13 (330)	4.25 (108)	3.75 (95)	R	3 (76)	R	R	R	N
EXB/EXBLTC-10148	9 (229)	13 (330)	4.25 (108)	3.75 (95)	R	3 (76)	R	R	R	N
EXB/EXBLTC-12126	10 (254)	10 (254)	2.75 (70)	2.25 (57)	2.25 (57)	1.5 (38)	1.75 (44)	1.25 (32)	N	N
EXB/EXBLTC-12128	10 (254)	10 (254)	2.75 (70)	2.25 (57)	2.25 (57)	1.5 (38)	1.75 (44)	1.25 (32)	N	N
EXB/EXBLTC-12186	10 (254)	16 (406)	5.75 (146)	5.25 (133)	5.25 (133)	4.5 (114)	4.75 (121)	4.25 (108)	N	N
EXB/EXBLTC-12188	10 (254)	16 (406)	5.75 (146)	5.25 (133)	5.25 (133)	4.5 (114)	4.75 (121)	4.25 (108)	N	N
EXB/EXBLTC-12246	10.3 (260)	22.3 (565)	8.88 (226)	8.38 (213)	8.38 (213)	7.63 (194)	7.88 (200)	7.38 (188)	R	N
EXB/EXBLTC-12248	10.3 (260)	22.3 (565)	8.88 (226)	8.38 (213)	8.38 (213)	7.63 (194)	7.88 (200)	7.38 (188)	R	N
EXB-122412	10.3 (260)	22.3 (565)	8.88 (226)	8.38 (213)	8.38 (213)	7.63 (194)	7.88 (200)	7.38 (188)	R	N
EXB-12368	11 (279)	35 (889)	15.25 (387)	14.75 (375)	14.75 (375)	14 (356)	14.25 (362)	13.75 (349)	N	N
EXB-123610	11 (279)	35 (889)	15.25 (387)	14.75 (375)	14.75 (375)	14 (356)	14.25 (362)	13.75 (349)	N	N
EXB-14146	13 (330)	13 (330)	4.25 (108)	3.75 (95)	3.75 (95)	3 (76)	3.25 (83)	2.75 (70)	2.25 (57)	*
EXB/EXBLTC-14148	13 (330)	13 (330)	4.25 (108)	3.75 (95)	3.75 (95)	3 (76)	3.25 (83)	2.75 (70)	2.25 (57)	*
EXB-16166	14 (356)	14 (356)	4.75 (121)	4.25 (108)	4.25 (108)	3.5 (89)	3.75 (95)	3.25 (83)	2.75 (70)	0.75 (19)
EXB/EXBLTC-16168	14 (356)	14 (356)	4.75 (121)	4.25 (108)	4.25 (108)	3.5 (89)	3.75 (95)	3.25 (83)	2.75 (70)	0.75 (19)
EXB/EXBLTC-16248	14 (356)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-162410	14 (356)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-18186	16 (406)	16 (406)	5.75 (146)	5.25 (133)	5.25 (133)	4.5 (114)	4.75 (121)	4.25 (108)	3.75 (95)	1.75 (44)
EXB-18188	16 (406)	16 (406)	5.75 (146)	5.25 (133)	5.25 (133)	4.5 (114)	4.75 (121)	4.25 (108)	3.75 (95)	1.75 (44)
EXB-18248	16 (406)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-182410	16 (406)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-18308	16 (406)	29 (737)	12.25 (311)	11.75 (298)	11.75 (298)	11 (279)	11.25 (286)	9.75 (248)	10.25 (260)	8.25 (210)
EXB-18368	16 (406)	34 (864)	14.75 (375)	14.25 (362)	14.25 (362)	13.5 (343)	13.75 (349)	13.25 (336)	12.75 (324)	10.75 (273)
EXB-183610	16 (406)	34 (864)	14.75 (375)	14.25 (362)	14.25 (362)	13.5 (343)	13.75 (349)	13.25 (336)	12.75 (324)	10.75 (273)
EXB-203611	18.9 (480)	34.9 (886)	15.18 (386)	14.68 (373)	14.68 (373)	13.94 (354)	14.19 (360)	13.68 (348)	13.19 (335)	11.19 (284)
EXB-24248	22 (559)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-242410	22 (559)	22 (559)	8.75 (222)	8.25 (210)	8.25 (210)	7.5 (190)	7.75 (197)	7.25 (184)	6.75 (172)	4.75 (121)
EXB-24308	22 (559)	28 (711)	11.75 (298)	11.25 (286)	11.25 (286)	10.5 (267)	10.75 (273)	10.25 (260)	9.75 (248)	7.75 (197)
EXB-24368	22 (559)	34 (864)	14.75 (375)	14.25 (362)	14.25 (362)	13.5 (343)	13.75 (349)	13.25 (336)	12.75 (324)	10.75 (273)
EXB-243610	22 (559)	34 (864)	14.75 (375)	14.25 (362)	14.25 (362)	13.5 (343)	13.75 (349)	13.25 (336)	12.75 (324)	10.75 (273)

All dimension in. (mm)

Symbols: N = Enclosure will not accommodate this lens size
 R = Rotate lens 90°, consult factory for layout assistance
 * = Indicates center line



ENCLOSURES
B7E SERIES

JUNCTION BOXES



B7E

Empty / Control Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I Zone 1 IIB+H2 Gb

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +40°C

Ta = -50°C to +40°C



File E83969

Certificate LR11716

FEATURES-SPECIFICATIONS

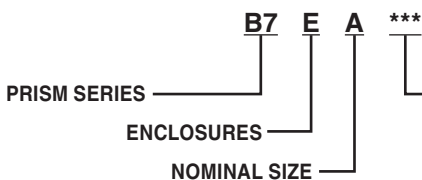
Features

- Copper-free cast aluminum construction – high strength, light in weight, corrosion resistant
- Quick release, captive cover bolts of 316 Grade Stainless Steel. Triple-lead bolts require only 3-½ turns to disengage. Stainless steel (316 grade) for maximum protection from corrosion.
- Nitrile (BUNA-N) “O” ring gasket is located inside bolt circle to prevent water seeping into enclosure
- Mounting lugs are made of ductile aluminum alloy to adjust to irregular mounting surfaces without damaging the enclosure.
- Hinged cover is standard
- Recessed Flange Notches – Flanges are notched to allow for easier cover opening with prying instrument without flange damage
- Conduit openings can be supplied at factory, or can be field installed

Materials

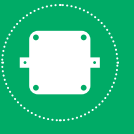
- Enclosure: Copper-free aluminum (less than ¼ of 1%)
- Hinges: Aluminum with stainless steel hardware
- Cover Bolts: 316 stainless steel
- Finish: Aluminum lacquer standard except B7EP and B7EQ which are powder epoxy.

CATALOG LOGIC



SUFFIXES

- SU3B-4X** – Type 4X drain and breather installed Groups BCD
 - SU3B-ATEX** – ATEX IEC Ex drain & breather installed Groups B & Ex d+IIB
 - SU2** – Install hinges
 - SU9** – Special paint
 - SU93** – Do not paint
- Additional suffixes are available*



JUNCTION BOXES

Figure 1

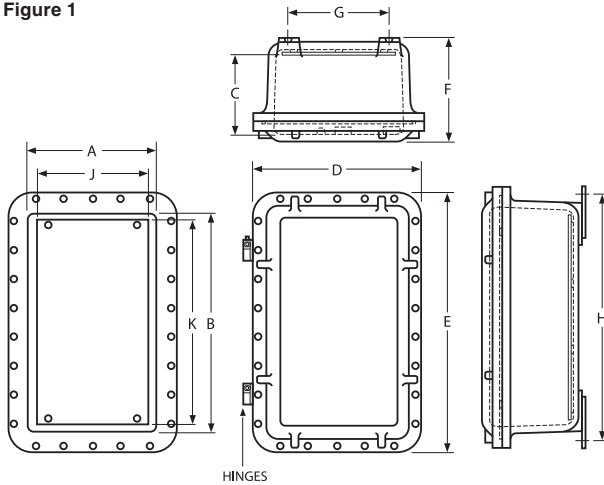
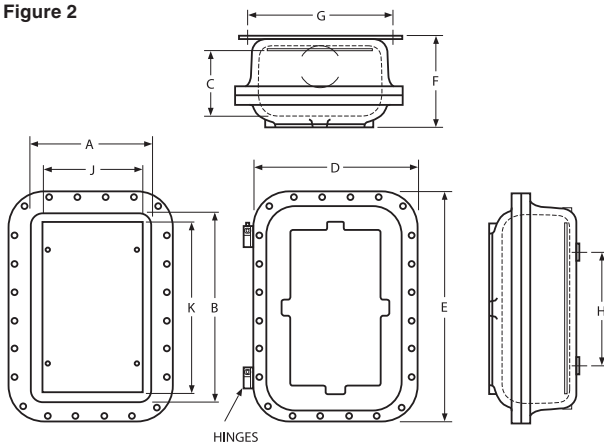


Figure 2



MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3B-QA	cCSAus, ATEX, IEC Ex drain and breather installed Class I Groups C & D & Ex d IIB, Type 4, 4X, IP66
SU3B-4X	UL and CSA drain and breather installed Class I Groups B, TYPE 4, 4X
SU9PEEX	External gray powder coated epoxy paint
SU14	Fungus proof internally
SU9	Special paint- specify
SU93	Do not paint enclosure
TOE PLATE KIT	Door guide plate to assist in aligning and installing cover bolts

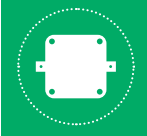
B7E JUNCTION BOXES AND ENCLOSURES			
CATALOG NUMBER	PAN		
	CATALOG NUMBER	WIDTH (J)	LENGTH (K)
B7EA	19919	5"	11-3/4"
B7EB	19920	8-1/4"	16-3/4"
B7EC	18245	6-1/4"	13-3/4"
B7ED	19921	8-3/8"	19-3/8"
B7EE	19923	6-3/8"	20-3/8"
B7EF	18472	11-5/8"	21-1/4"
B7EG	19924	10"	28"
B7EH	19925	15-3/8"	28-3/8"
B7EK	19926	11"	18"
B7EL	19927	11"	27"
B7EM	19928	11"	39"
B7EN	19929	11"	47"
B7EP	—	N/A	N/A
B7EQ	—	N/A	N/A

Internal Mounting Pan Thickness is 1/8" except on B7EJ it is 3/16" thick.

B7E JUNCTION BOXES AND ENCLOSURES												
CATALOG NUMBER	DIMENSIONS								DRAWING FIGURE	MAXIMUM CONDUIT SIZE		MAXIMUM NUMBER OF OPERATORS
	NOMINAL INSIDE			OUTSIDE			MOUNTING			TOP AND BOTTOM	SIDES	
	WIDTH (A)	LENGTH (B)	DEPTH (C)	WIDTH (D)	LENGTH (E)	DEPTH (F)	WIDTH (G)	LENGTH (H)				
B7EA	6-1/2"	13-1/2"	6-11/16"	11"	18"	9-1/8"	3-5/8"	16-3/8"	1	1-1/2"	1"	4 rows of 2 = 8
B7EB	10"	18-1/2"	6-5/8"	14-1/2"	23"	9-1/8"	7"	21-3/8"	1	1-1/2"	1"	7 rows of 3 = 21
B7EC	8"	15-1/2"	6-11/16"	12-1/2"	20"	9-1/8"	5"	18-3/8"	1	1-1/2"	1"	5 rows of 2 = 10
B7ED	10"	21"	6-11/16"	14-1/2"	25-1/2"	9-1/8"	7"	23-7/8"	1	1-1/2"	1"	8 rows of 3 = 24
B7EE	8"	21-3/4"	8-5/16"	12-1/2"	26-1/4"	10-3/4"	5"	24-5/8"	1	2"	2"	8 rows of 2 = 16
B7EF	13"	22-3/4"	8-3/8"	17-7/8"	27-1/4"	11"	10-3/8"	25-5/8"	1	4"	4"	8 rows of 4 = 32
B7EG	12"	29-3/4"	8-7/8"	16-1/2"	34-1/4"	11-1/2"	9"	32-5/8"	1	5"	4"	8 rows of 3 = 24
B7EH	17"	29-3/4"	8-11/16"	21-1/2"	34-1/4"	11-7/8"	14"	32-5/8"	1	5"	4"	9 rows of 5 = 45
B7EK	13"	20"	6-5/8"	17-1/2"	24-3/4"	9-1/2"	15-1/4"	13"	2	3"	1-1/2"	6 rows of 4 = 24
B7EL	13"	29"	6-5/8"	17-1/2"	33-3/8"	9-1/2"	15-1/4"	21"	2	3"	1-1/2"	9 rows of 4 = 36
B7EM	13"	41"	6-5/8"	17-1/2"	45-3/8"	9-1/2"	15-1/4"	33"	2	3"	1-1/2"	14 rows of 4 = 56
B7EN	13"	50"	6-5/8"	17-1/2"	54-3/8"	9-1/2"	15-1/4"	42"	2	3"	1-1/2"	17 rows of 4 = 68
B7EP	3-5/8"	5-13/16"	5-1/16"	5-3/4"	8-1/16"	6-5/16"	3-1/8"	8-1/8"	1	1"	1"	1 row of 2 = 2
B7EQ	4-1/4"	9-3/16"	6-5/16"	8-1/8"	13-1/16"	7-13/16"	6-3/8"	7-1/2"	2	1-1/2"	1-1/2"	1 row of 4 = 4

All Conduits must be sealed within 18" when used in Group B Locations.

Operator spacing is 2-1/2" \pm to \pm except on B7EG & B7EH spacing is 3" \pm to \pm . Internal Mounting Pan Thickness is 1/8". Consult Killark for drawing details before layout of cover devices. Maximum number of "G" series control operators permitted in cover, down + across = total.



ENCLOSURES B7E SERIES

CONDUIT OPENING DATA

Instructions

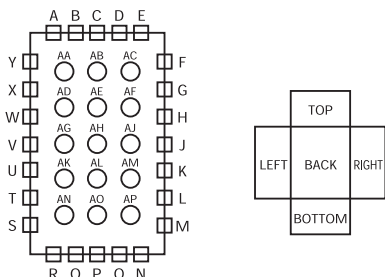
Drilled and tapped conduit openings will be evenly spaced and located in the area indicated on the location chart. Critical conduit opening locations may be indicated by supplying a diagram similar to the one shown at right indicating critical dimensions and locations. Specific conduit openings must be located dimensionally from box centerlines to conduit centerlines and from outside back surface of box to conduit centerline.

Ordering Information:

- Select the letter on location chart which indicates conduit opening position desired.
- Select symbol number from chart which indicates conduit opening type and size.

(3) Combine the conduit location letter, size and type number, and add as a suffix to junction box catalog number.

Example: EXB-12248 N34-C3-J5-PI3-AH4



Drawing indicates position as looking into open face of box with short side (top) up.

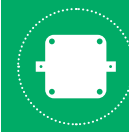
EXB/EXBLT/B7/GR SYMBOL NUMBERS		
CONDUIT SIZE	CONDUIT OPENINGS DRILLED AND TAPPED	UNION
1/2"	1	11
3/4"	2	12
1"	3	13
1-1/4"	4	14
1-1/2"	5	15
2"	6	16
2-1/2"	7	17
3"	8	18
3-1/2"	9	19
4"	0	10
5"	02	—
6"	04	—

Union = GUM series male NPT unions

EXB/EXBLT/B7/GR - MINIMUM CENTER TO CENTER SPACING FOR DRILLED AND TAPPED OPENINGS AND UNION HUBS														
NPT (METRIC)	SPACE CENTERS	1/2" (M16)	3/4" (M20)	1" (M25)	1-1/4" (M32)	1-1/2" (M40)	2" (M50)	2-1/2" (M63)	3" (M75)	3-1/2" (M80)	4" (M100)	5"	6"	
1/2" (M16)	MIN	1.18 (30)	—	—	—	—	—	—	—	—	—	—	—	—
	PRE	1.38 (35)	—	—	—	—	—	—	—	—	—	—	—	—
	GU	1.63 (41)	—	—	—	—	—	—	—	—	—	—	—	—
3/4" (M20)	MIN	1.38 (35)	1.5 (38)	—	—	—	—	—	—	—	—	—	—	—
	PRE	1.5 (38)	1.63 (41)	—	—	—	—	—	—	—	—	—	—	—
	GU	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—	—	—
1" (M25)	MIN	1.5 (38)	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—	—
	PRE	1.75 (44)	1.88 (48)	2 (108)	—	—	—	—	—	—	—	—	—	—
	GU	1.88 (48)	2 (108)	2.13 (54)	—	—	—	—	—	—	—	—	—	—
1-1/4" (M32)	MIN	1.69 (43)	1.94 (49)	2.06 (52)	2.31 (59)	—	—	—	—	—	—	—	—	—
	PRE	1.94 (49)	2.06 (52)	2.25 (57)	2.5 (64)	—	—	—	—	—	—	—	—	—
	GU	2.06 (52)	2.25 (57)	2.31 (59)	2.5 (64)	—	—	—	—	—	—	—	—	—
1-1/2" (M40)	MIN	1.94 (49)	2.06 (52)	2.19 (56)	2.5 (64)	2.63 (67)	—	—	—	—	—	—	—	—
	PRE	2.13 (54)	2.25 (57)	2.38 (60)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—	—
	GU	2.19 (56)	2.28 (58)	2.44 (62)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—	—
2" (M50)	MIN	2.25 (57)	2.38 (60)	2.56 (65)	2.81 (71)	2.94 (75)	3.19 (81)	—	—	—	—	—	—	—
	PRE	2.38 (60)	2.5 (64)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—	—
	GU	2.5 (64)	2.59 (66)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—	—
2-1/2" (M63)	MIN	2.44 (62)	2.56 (65)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	—	—	—	—	—	—
	PRE	2.63 (67)	2.75 (70)	3 (76)	3.25 (82)	3.38 (86)	3.63 (92)	4 (102)	—	—	—	—	—	—
	GU	3.13 (97)	3.22 (82)	3.38 (86)	3.56 (90)	3.69 (94)	4 (102)	4.63 (117)	—	—	—	—	—	—
3" (M75)	MIN	2.81 (71)	2.94 (75)	3.06 (78)	3.31 (84)	3.44 (87)	3.75 (95)	4 (102)	4.31 (110)	—	—	—	—	—
	PRE	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	3.75 (95)	4 (102)	4.38 (111)	4.75 (121)	—	—	—	—	—
	GU	3.56 (90)	3.66 (93)	3.81 (97)	4 (102)	4.13 (105)	4.44 (113)	5.06 (129)	5.5 (140)	—	—	—	—	—
3-1/2" (M80)	MIN	3.13 (97)	3.25 (82)	3.38 (86)	3.63 (92)	3.75 (95)	4.06 (103)	4.31 (110)	4.63 (117)	4.94 (125)	—	—	—	—
	PRE	3.38 (86)	3.5 (89)	3.63 (92)	3.88 (98)	4 (102)	4.38 (111)	4.63 (117)	5 (127)	5.38 (136)	—	—	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	—	—	—	—
4" (M100)	MIN	3.44 (87)	3.56 (90)	3.69 (94)	3.94 (100)	4.06 (103)	4.38 (111)	4.63 (117)	4.94 (125)	5.25 (133)	5.56 (141)	—	—	—
	PRE	3.75 (95)	3.88 (98)	4 (102)	4.25 (108)	4.38 (111)	4.75 (121)	5 (127)	5.75 (146)	5.63 (143)	6 (152)	—	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	6.38 (162)	—	—	—
5"	MIN	4.13 (105)	4.25 (108)	4.38 (111)	4.63 (117)	4.75 (121)	5 (127)	5.25 (133)	5.56 (141)	5.88 (149)	6.19 (157)	6.19 (157)	—	—
	PRE	4.38 (111)	4.5 (114)	4.63 (117)	4.88 (124)	5 (127)	5.38 (136)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7.25 (184)	—	—
6"	MIN	4.75 (121)	4.88 (124)	5 (127)	5.25 (133)	5.38 (136)	5.63 (143)	5.88 (149)	6.19 (157)	6.5 (165)	6.81 (173)	7.44 (190)	8.13 (206)	—
	PRE	5 (127)	5.13 (130)	5.25 (133)	5.5 (140)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7 (178)	7.25 (184)	8 (203)	8.63 (220)	—
LOCKNUT O.D.		1.25 (32)	1.13 (29)	1.69 (43)	2.19 (56)	2.44 (62)	3 (76)	3.44 (87)	4.19 (106)	4.81 (122)	5.38 (136)	6.69 (170)	7.94 (202)	—
CONDUIT BUSHING		1 (25)	1.25 (32)	1.5 (38)	1.88 (48)	2.13 (54)	2.63 (67)	3.19 (81)	3.88 (98)	4.44 (113)	5 (127)	6.25 (159)	7.38 (187)	—
CONDUIT O.D.			1.06 (27)	1.38 (35)	1.69 (43)	1.94 (49)	2.38 (60)	2.88 (73)	3.5 (89)	4 (102)	4.5 (114)	5.56 (141)	6.63 (168)	—

All dimension in. (mm)

MIN: The minimum space required to provide enough clearance over locknuts and bushings.
 PRE: The preferred more liberal center to center spacing of openings. To be used whenever possible.
 GU: The required spacing between openings using GUM Series male NPT unions.



JUNCTION BOXES



B7EP



B7EQ

B7E

Empty / Control Enclosure

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I Zone 1 IIB+H2 Gb

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +40°C

Ta = -50°C to +40°C



File E83969

Certificate LR11716

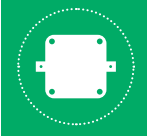
FEATURES-SPECIFICATIONS

Features

- Compact size enclosures for application flexibility
- Type 4, 4X rated – providing protection from hose directed water and corrosion
- Fewer cover bolts reduce installation and maintenance time
- Removable ductile mounting lugs adjust to irregular mounting surfaces
- See Controls section for “G Series” control operators and accessories
- Use ‘long style’ operators

Materials

- Enclosures: Copper-free aluminum (less than 1/10 of 1% copper content)
- Cover Bolts: 316 stainless steel
- O-ring Gasket: Silicone
- Finish: Grey Powder Polyester painted exterior, electrostatically applied.



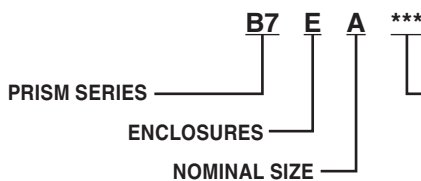
ENCLOSURES

B7EP, B7EQ SERIES

JUNCTION BOXES

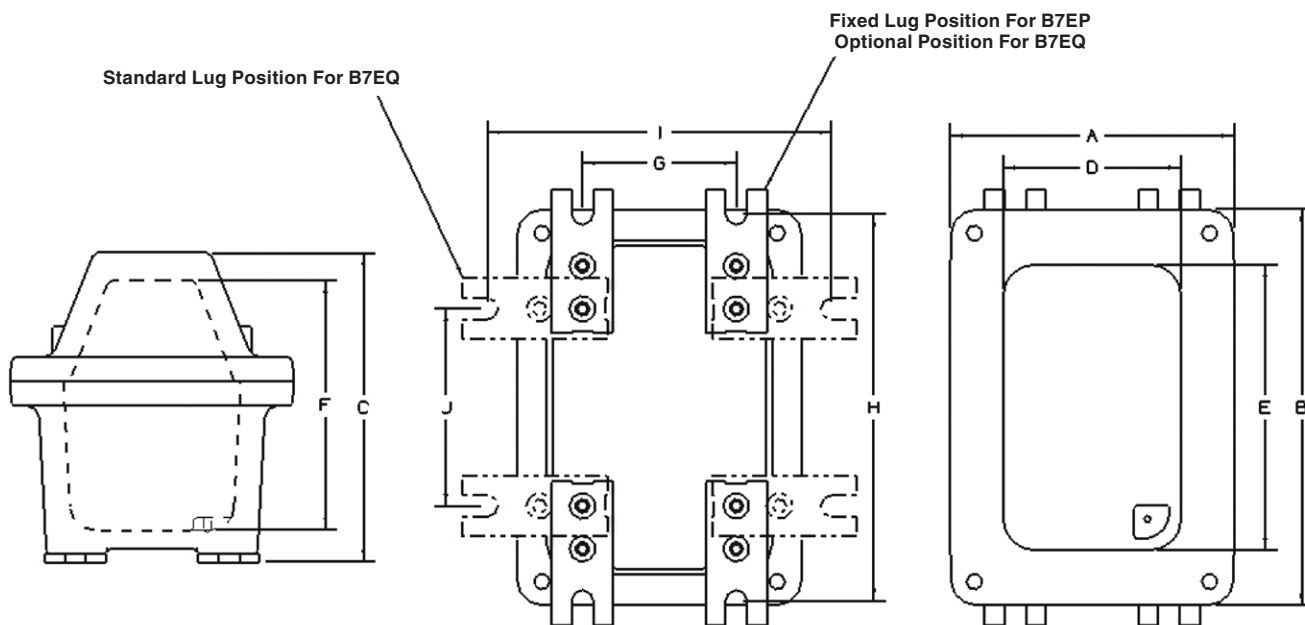
MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
SU-2	HINGE-12L INSTALLED
SU3B4X	Drain and Breather installed (Class 1, Div. 1 & 2, Group B, C, and D, Type 4x)
SU9	Special paint finish
SU14	Fungus proofing of enclosure

CATALOG LOGIC



SUFFIXES

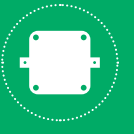
- SU3B-4X – Type 4X drain and breather installed Groups BCD
 - SU3B-ATEX – ATEX IEC Ex drain & breather installed Groups B & Ex d+IIB
 - SU2 – Install hinges
 - SU9 – Special paint
 - SU93 – Do not paint
- Additional suffixes are available*



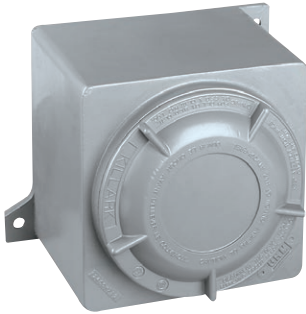
DIMENSIONS

CATALOG NUMBER	EXTERNAL DIMENSIONS			INTERNAL DIMENSIONS			MOUNTING DIMENSIONS				MAX. NO. OPERATORS	OPERATOR SPACING	MAX. SIZE CONDUIT
	A	B	C	D	E	F	G	H	I	J			
B7EP	5.75 (146)	8.06 (205)	6.31 (160)	3.63 (92)	5.81 (148)	5.06 (128)	3.13 (80)	8.13 (206)	N/A	N/A	2	2.5 (64)	1"
B7EQ	8.13 (207)	13.06 (332)	7.81 (198)	4.25 (108)	9.18 (233)	6.93 (176)	2.5 (64)	11.38 (289)	6.38 (162)	7.5 (190)	4	2 (51)	1-1/2"

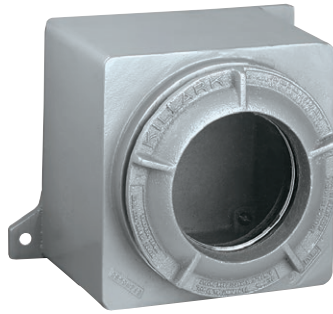
All dimension in. (mm)



THREADED ENCLOSURES



Box with blank cover



Box with lens cover



Box with dome cover



GR Empty Enclosures

NEC / CEC Certifications

Class I, Div. 1 & 2, Groups B, C, & D

Class I Zone 1 IIB+H2 Gb

Class II, Div. 1 & 2, Groups E, F, & G

Class III

Type 3, 4, 4X

Ta = -25°C to +40°C (UL)

Ta = -50°C to +40°C (CSA)



File E83969, File E10514



Certificate LR11716 - 1820607



File 2Y4A5.AE

ATEX / IEC Ex Certificate



II 2 G D CE 2813

Ex d IIC Gb T6 or T5

Ex tD A21 T80°C or T90°C

Service Temperature -20°C to +40°C

PTB ATEX1071U

PTB ATEX1072

IECEX PTB 05.0028U

IECEX PTB 05.002

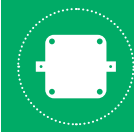
FEATURES-SPECIFICATIONS

Features

- Compact square or rectangular enclosure with threaded screw type cover provide easy access to interior
- Can be shipped in component parts and still maintain third party UL-CSA-FM approvals
- Available in three different cover types: flat blank, lens and dome covers
- Cast mounting lugs are standard on all assemblies
- Available as blank box or can be custom drilled and tapped for conduit openings which may be factory or field installed on the four sides or back wall
- Gaskets are standard on all assemblies and with covers when component part ordering
- Internal ground screw supplied on all boxes
- CEN suffix modification for ATEX/IEC Ex certification includes an external ground screw, cover locking screw, and nameplate displaying certification and area classifications. Feature is only available on complete assemblies and not available when component part ordering.

Materials

- Enclosures:
Copper-free aluminum
(less than 1/10 of 1%)
- Optional Mounting Pans:
Sheet aluminum
- Lens Cover Glass:
Tempered soda lime glass
- Cover Gaskets:
GRB, GRE, GRM, GRK, GRL
70 Durometer NITRILE
GRH, GRHA, GRHC
57 63 Durometer BUNA-N
- Finish: Electrostatically applied gray powder epoxy/polyester on box exterior and cover



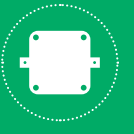
ENCLOSURES
GR SERIES

THREADED ENCLOSURES



For ATEX and IEC Ex Global Certifications Add Suffix "CEN" to the Catalog Logic

GR COMPLETE ASSEMBLIES									
COVER OPENING DIAMETER	NOMINAL EXTERNAL BOX DIMENSIONS WITHOUT COVER			CATALOG NUMBER		VIEWING AREA	CATALOG NUMBER	DEPTH OF DOME	MAXIMUM CONDUIT SIZE
	L	W	D	BOX WITH BLANK COVER	BOX WITH LENS COVER		BOX WITH DOME COVER		
3.906 (99.21)	4.63 (117.60)	4.63 (117.60)	4.15 (105.41)	GRB	GRB-275L	2.75 (70)	2GRB	2 (51)	1-1/2"
							4GRB	4 (102)	
4.34 (110.24)	6.63 (168.40)	5.5 (139.70)	5.25 (133.35)	GRE	GRE-300L	3 (76)	—	—	2"
5.28 (134.11)	6.87 (174.50)	6.87 (174.50)	5.93 (150.62)	GRM	GRM-375L	3.75 (95)	5GRM	5 (127)	2"
7.25 (184.15)	9.87 (250.70)	8.38 (212.85)	6.53 (165.86)	GRK	GRK-537L	5.38 (137)	4GRK	4 (102)	2-1/2"
7.87 (199.90)	10.5 (266.70)	8.87 (225.30)	7.18 (182.37)	GRL	GRL-600L	6 (152)	—	—	2"
9.63 (244.60)	12 (304.80)	11 (279.40)	7.63 (193.80)	GRH	GRH-775L	7.75 (197)	4GRH	4 (102)	3 1/2"
							8GRH	8 (203)	
9.63 (244.60)	12.18 (309.37)	11 (279.40)	11 (279.40)	GRHC	GRHC-775L	7.75 (197)	4GRHC	4 (102)	4"
							8GRHC	8 (203)	
9.63 (244.60)	12 (304.80)	11 (279.40)	16.18 (410.97)	GRHA	GRHA-775L	7.75 (197)	4GRHA	4 (102)	4"
							8GRHA	8 (203)	



THREADED ENCLOSURES



GR COMPONENT PARTS

ENCLOSURE SERIES	CATALOG NUMBER OF COMPONENTS						
	BOX WITHOUT COVER	BLANK COVER	LENS COVER	DOME COVER	GASKET REPLACEMENT	FLAT PAN	DIMENSIONS FOR MTG. PANS
GRB	GRBB	GRB-BC	GL-275	2"- 2GRBD	GRB-RG	6086PAN	3.4 x 3.5 (86 x 89)
				4"- 4GRBD			
GRE	GREB	GRE-BC	GL-300	—	GRE-RG	6074	4 x 4.5 (102 x 114)
GRM	GRMB	GRM-BC	GL-375	5"- 5GRMD	GRM-RG	6064	5 x 5 (127 x 127)
GRK	GRKB	GRK-BC	GL-537	4"- 4GRKD	GRK-RG	6038	5.5 x 7.5 (140 x 191)
GRL	GRLB	GRL-BC	GL-600	—	GRL-RG	6053	6 x 8.5 (152 x 216)
GRH	GRHB	GRH-BC	GL-775	4"- 4GRHD	GRH-RG	6058	8 x 9 (203 x 229)
				8"- 8GRHD			
GRHC	GRHCB	GRH-BC	GL-775	4"- 4GRHD	GRH-RG	6058	8 x 9 (203 x 229)
				8"- 8GRHD			
GRHA	GRHAB	GRH-BC	GL-775	4"- 4GRHD	GRH-RG	6058	8 x 9 (203 x 229)
				8"- 8GRHD			

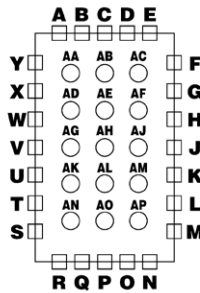
GR MODIFICATIONS

SUFFIX NUMBER	DESCRIPTION
CEN	ATEX and IEC Ex Certifications, IP66
P	Drill, tap and install Mounting Pan
SU-8	Drill and tap only for Mounting Pan
KIT-251	100 amp ground lug
KIT-252	200 amp ground lug
SU3B-QA	cCSAus, ATEX, IEC Ex drain and breather installed Class I Groups C & D and Ex d IIB, Type 4, 4x, IP66
SU3B-4X	UL and CSA drain and breather installed Class I Groups B, Type 4, 4x
SU3B-ATEX	UL CSA, ATEX, IEC Ex drain and breather installed Class I groups B and Ex d IIB, Voids Type 4 and IP66
SU-6	Remove external mounting lugs
SU14	Fungus Proof internally
SU9	Special paint - specify
SU93	Do not paint

EXAMPLE: **GRB-C3-J2-P1=**
GRB enclosure with 1" NPT top center,
3/4" NPT right side center,
1/2" NPT bottom center

Drilled and Tapped Conduit Openings

Boxes are furnished blank for field drilling and tapping of conduit openings. If factory openings are requested submit drawing or select from charts below.



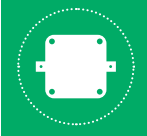
SYMBOL NUMBER

SIZE	SYMBOL
1/2"	1
3/4"	2
1"	3
1-1/4"	4
1-1/2"	5
2"	6
2-1/2"	7
3"	8
3-1/2"	9
4"	10

GR ENCLOSURE VOLUMES

CATALOG NUMBER	VOLUME CU IN (LT)
GRB	45 (0.74)
GRE	105 (1.72)
GRM	180 (2.95)
GRK	305 (5.00)
GRL	405 (6.64)
GRH	615 (10.09)
GRHA	1450 (23.78)
GRHC	985 (16.15)
GRB-275L	40 (0.66)
GRE-300L	95 (1.56)
GRM-375L	170 (2.79)
GRK-537L	280 (4.59)
GRL-600L	380 (6.23)
GRH-775L	570 (9.35)
GRHA-775L	1400 (22.96)
GRHC-775L	940 (15.42)
2GRB	60 (0.98)
4GRB	80 (1.31)
5GRM	250 (4.10)
4GRK	410 (6.72)
4GRH	820 (13.45)
8GRH	1050 (17.22)
4GRHA	1660 (27.22)
8GRHA	1890 (31.00)
4GRHC	1195 (19.60)
8GRHC	1425 (23.37)

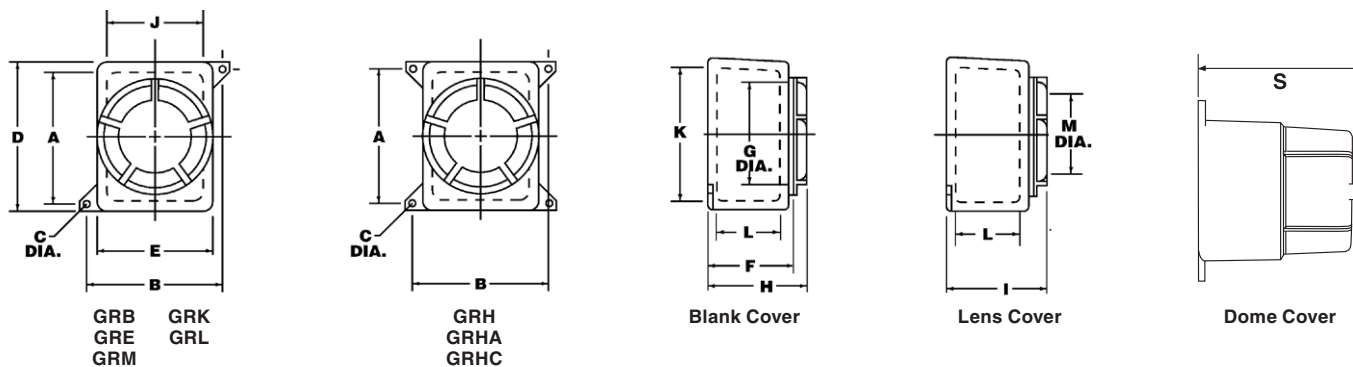
Notes: Replacement covers are supplied with the O-ring gasket. For Group B applications all conduit openings must be sealed within 18" (457mm) from the enclosure wall. For ATEX and IEC Ex applications all conduit and gland openings must be sealed immediately to the enclosure wall.



ENCLOSURES GR SERIES

THREADED ENCLOSURES

DIMENSIONS



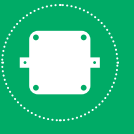
CAT. NO.	MOUNTING DIMENSIONS			EXTERNTAL DIMENSIONS			BLANK COVER		LENS COVER		INTERNAL DIMENSIONS			WEIGHT LBS (KG)
	A	B	C	D	E	F	G*	H	I	M+	J	K	L	
GRB	4 (102)	6 (527)	0.31 (8)	4.63 (118)	4.63 (118)	4.15 (105)	3.91 (99)	4.56 (116)	4.53 (116)	2.75 (70)	3.75 (95)	3.75 (95)	2.68 (68)	5.6 (2.54)
GRE	5.75 (146)	6.5 (165)	0.31 (8)	6.63 (168)	5.5 (149)	5.25 (133)	4.34 (110)	5.75 (146)	5.72 (145)	3 (76)	4.63 (118)	5.75 (146)	3.28 (83)	7.9 (4.4)
GRM	5.87 (149)	8.13 (206)	0.31 (8)	6.87 (174)	6.87 (174)	5.93 (151)	5.28 (134)	6.56 (167)	6.56 (167)	3.75 (95)	6 (527)	6 (527)	4.18 (106)	11.8 (5.4)
GRK	9.13 (232)	9.63 (245)	0.31 (8)	9.87 (251)	8.38 (213)	6.53 (166)	7.25 (184)	7.28 (185)	7.18 (182)	5.38 (137)	7.06 (179)	8.31 (211)	4.13 (105)	23.5 (10.7)
GRL	9.5 (241)	10.5 (267)	0.44 (11)	10.5 (267)	8.87 (225)	7.18 (182)	7.87 (200)	7.97 (202)	7.93 (201)	6 (527)	7.63 (194)	9.13 (234)	4.93 (125)	26.2 (11.9)
GRH	10.75 (273)	12.13 (308)	0.44 (11)	12 (305)	11.63 (295)	7.63 (194)	9.63 (245)	8.38 (213)	8.63 (219)	7.75 (197)	9.5 (241)	10.5 (267)	5 (127)	39.7 (18)
GRHA	8.25 (207)	12.13 (308)	0.44 (11)	12 (305)	11.63 (295)	16.18 (411)	9.63 (245)	16.93 (430)	17.18 (436)	7.75 (197)	9.5 (241)	10.5 (267)	13.56 (344)	70.5 (32)
GRHC	8.25 (207)	12.13 (308)	0.56 (14)	12.18 (309)	11.63 (295)	11 (279)	9.63 (245)	11.75 (298)	12 (305)	7.75 (197)	9.56 (243)	10.63 (270)	8.43 (214)	54.9 (24.9)

Notes: All dimensions in. (mm)

*Box opening diameter

+Viewing lens diameter

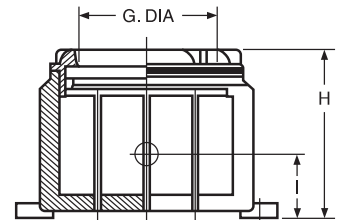
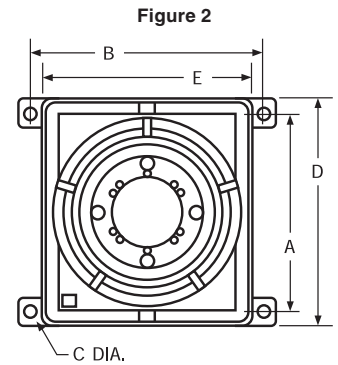
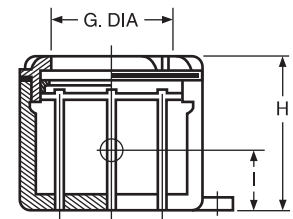
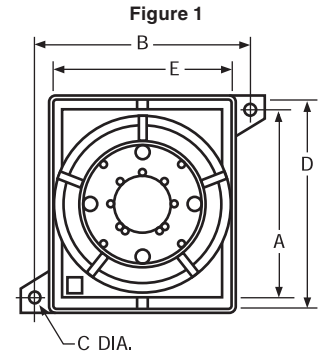
CATALOG NUMBER BASIC BOX W/DOME COVER	S DIM INCHES (MM)
2GRB	7 (177.80)
4GRB	9 (228.60)
5GRM	12.25 (311.15)
4GRK	11.93 (303.02)
4GRH	13 (330.20)
8GRH	17 (431.80)
4GRHA	21.5 (546.10)
8GRHA	25.5 (647.70)
4GRHC	16.31 (414.27)
8GRHC	20.31 (515.88)



INSTRUMENT ENCLOSURES

DIMENSIONS

RECOMMENDED GR ENCLOSURE BASED ON INSTRUMENT MODEL (INSTRUMENTS NOT SUPPLIED)				
CATALOG NUMBER	MANUFACTURER	INSTRUMENT		
		MODEL	SIZE	TYPE
GRM-375L52	Weston	1930 Series	3-1/2"	Rectangular
		301 Series	3"	Rectangular
		301 Series	3-1/2"	Round
GRM-375L52	General Electric	KT w/o reset	3"	Rectangular
		KT w/o reset	3-1/2"	Round
GRM-375L52	Cutler Hammer	R-351	3"	Rectangular
		B-351 w/o reset	3"	Rectangular
		N-351	3-1/2"	Round
GRM-375L52	Simpson	27, 27T, 37, 47, 57, 77 Series	3"	Rectangular
		2100 Series	3-1/2"	Rectangular
		25, 25T, 35, 45, 55 Series	3-1/2"	Round
		55ET	3-1/2"	Round
		75	3-1/2"	Round
		1300 Series	3-1/2"	Rectangular
		3223	3-1/2"	Round
3323	3-1/2"	Rectangular		
GRM-375L52	Cutler Hammer	N-371 Series	4-1/2"	Round
GRK-537L52A	Cutler Hammer	R-371 Series	4"	Rectangular
GRK-537L52A	Simpson	3224	4-1/2"	Round
GRK-537L52A	General Electric	250, 162, 167, 251 Series	3-1/2"	Rectangular
		178 Series	4-1/2"	Rectangular
		171 Series frequency meter	4-1/2"	Rectangular
		236 w/o Reset	3-1/2"	Rectangular
GRK-537L52B	Weston	1940 Series	4-1/2"	Rectangular
GRK-537L52B	General Electric	AB/DB-30 AC ammeter	4-1/2"	Rectangular
		AB/DB-30 AC/DC ammeter	4-1/2"	Rectangular
GRL-600L52B	General Electric	AB/DB-40 AC ammeter	4-1/2"	Rectangular
		DB-40 DC ammeter	4-1/2"	Rectangular
GRK-537L52B	General Electric	DB-40 DC voltmeter	4-1/2"	Rectangular
		171, 250, 251 Series	4-1/2"	Rectangular
GRL-600L52C	Simpson	29, 29T, 39, 49, 59, 79, 1300, 2100 Series	4-1/2"	Rectangular
GRH-775L52B	General Electric	AB/DB-40 AC voltmeter	4-1/2"	Rectangular



GR DIMENSIONS									
CATALOG NUMBER	FIG. NO.	A	B	C	D	E	G	H	I
GRM-375L52	1	5-7/8"	8-1/8"	5/16"	6-7/8"	6-7/8"	3-9/16"	6-13/32"	2-5/8"
GRK-537L52A	1	9-1/8"	9-1/8"	5/16"	9-7/8"	7-7/8"	4-7/8"	6-11/16"	2-1/2"
GRK-537L52B	1	9-1/8"	9-1/8"	5/16"	9-7/8"	7-7/8"	4-7/8"	6-11/16"	2-1/2"
GRL-600L52B	1	9-1/2"	10-1/2"	7/16"	10-1/2"	8-7/8"	5-13/16"	7-17/32"	2-3/4"
GRL-600L52C	1	9-1/2"	10-1/2"	7/16"	10-1/2"	8-7/8"	5-13/16"	7-17/32"	2-3/4"
GRH-775L52B	2	10-3/4"	12-1/8"	7/16"	12"	11"	7-7/16"	8-3/4"	3"



CONDUIT OPENING DATA

Instructions

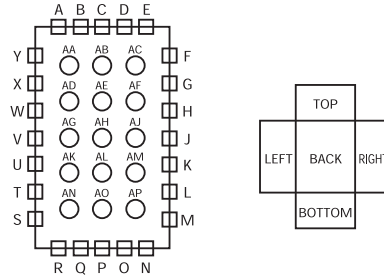
Drilled and tapped conduit openings will be evenly spaced and located in the area indicated on the location chart. Critical conduit opening locations may be indicated by supplying a diagram similar to the one shown at right indicating critical dimensions and locations. Specific conduit openings must be located dimensionally from box centerlines to conduit centerlines and from outside back surface of box to conduit centerline.

Ordering Information:

- (1) Select the letter on location chart which indicates conduit opening position desired.
- (2) Select symbol number from chart which indicates conduit opening type and size.

- (3) Combine the conduit location letter, size and type number, and add as a suffix to junction box catalog number.

Example: EXB-12248 N34-C3-J5-PI3-AH4



Drawing indicates position as looking into open face of box with short side (top) up.

EXB/EXBLT/B7/GR SYMBOL NUMBERS		
CONDUIT SIZE	CONDUIT OPENINGS DRILLED AND TAPPED	UNION
1/2"	1	11
3/4"	2	12
1"	3	13
1-1/4"	4	14
1-1/2"	5	15
2"	6	16
2-1/2"	7	17
3"	8	18
3-1/2"	9	19
4"	0	10
5"	02	—
6"	04	—

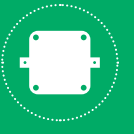
Union = GUM series male NPT unions

EXB/EXBLT/B7/GR - MINIMUM CENTER TO CENTER SPACING FOR DRILLED AND TAPPED OPENINGS AND UNION HUBS

NPT (METRIC)	SPACE CENTERS	1/2" (M16)	3/4" (M20)	1" (M25)	1-1/4" (M32)	1-1/2" (M40)	2" (M50)	2-1/2" (M63)	3" (M75)	3-1/2" (M80)	4" (M100)	5"	6"
1/2" (M16)	MIN	1.18 (30)	—	—	—	—	—	—	—	—	—	—	—
	PRE	1.38 (35)	—	—	—	—	—	—	—	—	—	—	—
	GU	1.63 (41)	—	—	—	—	—	—	—	—	—	—	—
3/4" (M20)	MIN	1.38 (35)	1.5 (38)	—	—	—	—	—	—	—	—	—	—
	PRE	1.5 (38)	1.63 (41)	—	—	—	—	—	—	—	—	—	—
	GU	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—	—
1" (M25)	MIN	1.5 (38)	1.75 (44)	1.81 (46)	—	—	—	—	—	—	—	—	—
	PRE	1.75 (44)	1.88 (48)	2 (108)	—	—	—	—	—	—	—	—	—
	GU	1.88 (48)	2 (108)	2.13 (54)	—	—	—	—	—	—	—	—	—
1-1/4" (M32)	MIN	1.69 (43)	1.94 (49)	2.06 (52)	2.31 (59)	—	—	—	—	—	—	—	—
	PRE	1.94 (49)	2.06 (52)	2.25 (57)	2.5 (64)	—	—	—	—	—	—	—	—
	GU	2.06 (52)	2.25 (57)	2.31 (59)	2.5 (64)	—	—	—	—	—	—	—	—
1-1/2" (M40)	MIN	1.94 (49)	2.06 (52)	2.19 (56)	2.5 (64)	2.63 (67)	—	—	—	—	—	—	—
	PRE	2.13 (54)	2.25 (57)	2.38 (60)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
	GU	2.19 (56)	2.28 (58)	2.44 (62)	2.63 (67)	2.75 (70)	—	—	—	—	—	—	—
2" (M50)	MIN	2.25 (57)	2.38 (60)	2.56 (65)	2.81 (71)	2.94 (75)	3.19 (81)	—	—	—	—	—	—
	PRE	2.38 (60)	2.5 (64)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
	GU	2.5 (64)	2.59 (66)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	—	—	—	—	—	—
2-1/2" (M63)	MIN	2.44 (62)	2.56 (65)	2.75 (70)	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	—	—	—	—	—
	PRE	2.63 (67)	2.75 (70)	3 (76)	3.25 (82)	3.38 (86)	3.63 (92)	4 (102)	—	—	—	—	—
	GU	3.13 (97)	3.22 (82)	3.38 (86)	3.56 (90)	3.69 (94)	4 (102)	4.63 (117)	—	—	—	—	—
3" (M75)	MIN	2.81 (71)	2.94 (75)	3.06 (78)	3.31 (84)	3.44 (87)	3.75 (95)	4 (102)	4.31 (110)	—	—	—	—
	PRE	3 (76)	3.13 (97)	3.38 (86)	3.63 (92)	3.75 (95)	4 (102)	4.38 (111)	4.75 (121)	—	—	—	—
	GU	3.56 (90)	3.66 (93)	3.81 (97)	4 (102)	4.13 (105)	4.44 (113)	5.06 (129)	5.5 (140)	—	—	—	—
3-1/2" (M80)	MIN	3.13 (97)	3.25 (82)	3.38 (86)	3.63 (92)	3.75 (95)	4.06 (103)	4.31 (110)	4.63 (117)	4.94 (125)	—	—	—
	PRE	3.38 (86)	3.5 (89)	3.63 (92)	3.88 (98)	4 (102)	4.38 (111)	4.63 (117)	5 (127)	5.38 (136)	—	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	—	—	—
4" (M100)	MIN	3.44 (87)	3.56 (90)	3.69 (94)	3.94 (100)	4.06 (103)	4.38 (111)	4.63 (117)	4.94 (125)	5.25 (133)	5.56 (141)	—	—
	PRE	3.75 (95)	3.88 (98)	4 (102)	4.25 (108)	4.38 (111)	4.75 (121)	5 (127)	5.75 (146)	6.38 (162)	6 (152)	—	—
	GU	4 (102)	4.09 (104)	4.25 (108)	4.44 (113)	4.56 (116)	4.88 (124)	5.5 (140)	5.94 (151)	6.38 (162)	6.38 (162)	—	—
5"	MIN	4.13 (105)	4.25 (108)	4.38 (111)	4.63 (117)	4.75 (121)	5 (127)	5.25 (133)	5.56 (141)	5.88 (149)	6.19 (157)	6.19 (157)	—
	PRE	4.38 (111)	4.5 (114)	4.63 (117)	4.88 (124)	5 (127)	5.38 (136)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7.25 (184)	—
6"	MIN	4.75 (121)	4.88 (124)	5 (127)	5.25 (133)	5.38 (136)	5.63 (143)	5.88 (149)	6.19 (157)	6.5 (165)	6.81 (173)	7.44 (190)	8.13 (206)
	PRE	5 (127)	5.13 (130)	5.25 (133)	5.5 (140)	5.63 (143)	6 (152)	6.25 (159)	6.63 (168)	7 (178)	7.25 (184)	8 (203)	8.63 (220)
LOCKNUT O.D.		1.25 (32)	1.13 (29)	1.69 (43)	2.19 (56)	2.44 (62)	3 (76)	3.44 (87)	4.19 (106)	4.81 (122)	5.38 (136)	6.69 (170)	7.94 (202)
CONDUIT BUSHING		1 (25)	1.25 (32)	1.5 (38)	1.88 (48)	2.13 (54)	2.63 (67)	3.19 (81)	3.88 (98)	4.44 (113)	5 (127)	6.25 (159)	7.38 (187)
CONDUIT O.D.			1.06 (27)	1.38 (35)	1.69 (43)	1.94 (49)	2.38 (60)	2.88 (73)	3.5 (89)	4 (102)	4.5 (114)	5.56 (141)	6.63 (168)

All dimension in. (mm)

MIN: The minimum space required to provide enough clearance over locknuts and bushings.
 PRE: The preferred more liberal center to center spacing of openings. To be used whenever possible.
 GU: The required spacing between openings using GUM Series male NPT unions.



KB DRAINS / BREATHERS

UL / CSA / ATEX / IEC Ex Certified

See chart below for certifications

DRAINS / BREATHERS

When installed in the top or side wall of the enclosure it acts as a breather. When installed in the bottom of the enclosure the fitting allows moisture to drain out of the enclosure.

Features

Made of 6061 Aluminium or 316 stainless steel with internal nickel plated brass sinter flame arrestor.

Volume

For use in enclosures with a maximum internal volume to 9526 cubic inches (160 liters). See note for additional restriction.



KB1-4X



KB1B



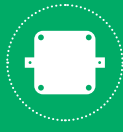
KB1D



KBQA

CAT. NO.	TYPE	BODY MATERIAL	THREAD SIZE	USA	USA SUITABILITY	ENVIRO- MENTAL	CANADA	CANADA SUITABILITY	ENVIRO- MENTAL	IEC Ex / ATEX	IEC Ex ATEX SUITABILITY	ENVIRO- MENTAL
KB1B	Drain	Aluminum	1/2" NPT	UL, FM, CSAus	Class I Groups BCD Class I Zone 1 & 2 IIB+H2	Type 3	CSA	Class I Groups CD Class I Zone 1 & 2 IIB Class II Groups EFG Class III Service Temperature -50°C to +40°C (KBQA = -50°C to +60°C. See note for Group B Applications)	Type 3	N/A	N/A	N/A
KB1D	Drain											
KB1BCEN	Breather											
KB1DCEN	Drain	316 SS	M20	CSAus	Class II Groups EFG Class III Service Temperature -25°C to +40°C (KBQA see note for Group B Applications)	Type 3, 4 & 4X			CSA/ SIRA	Ex db IIB+H2 Gb Ex db IIB Gb Ex tb IIIC Db Ambient Temperature -50°C to +60°C (KBQA = -60°C to +200°C. See note for IIB+H2 limitation)	IP44	
KB1DSS6CEN	Drain											
KBM20BCEN	Breather											
KBM20DCEN	Drain	Aluminum	1/2" NPT	CSAus								
KBM20BSS6CEN	Breather											
KBM20DSS6CEN	Drain											
KBQAAL0050*	Drain / Breather	316 SS										IP66
KBQAS60050*	Drain / Breather	Aluminum										
KB1-4X	Drain / Breather	Aluminum	1/2" NPT	UL, CSAus								
KB1-4XS6	Drain / Breather	316 SS								N/A	N/A	N/A

*The KBQA is for use in Class I Group B and Ex db IIB+H2 areas for enclosures with maximum volumes of 1709 in³ (28 liters). In larger enclosures the KBQA is suitable for Class I Group C and Ex db IIB areas.



ENCLOSURES

KB FLAME ARRESTORS/EXH BREAKER HANDLES

KB FLAME ARRESTORS

FEATURES-SPECIFICATIONS

Connects gas analysis equipment and electro pneumatic device pipe or tubing system through the wall of an explosion-proof enclosure.

BODY MATERIAL: 6061-T6 series aluminum provided as standard. Optional stainless steel.

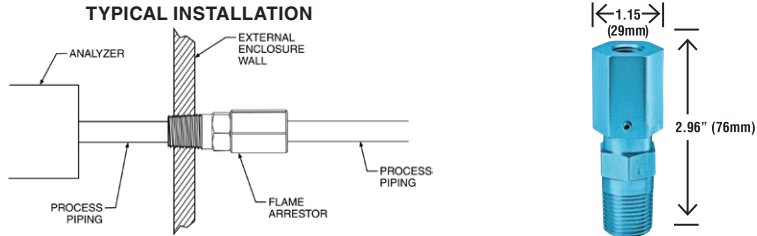


Specifications

Air flow = 83 + 15 / -25 SCFH at 5PSI
 Pressure drop = 1.3 PSI at 100 PSI
 Maximum flow pressure = 800 PSI
 Volume = For use in enclosures with a maximum internal volume of 9526 cubic inches or 160 liters.

CAT. NO.	EXTERNAL THREAD	INTERNAL THREAD	BODY MATERIAL	USA	USA SUITABILITY	ENVIRONMENTAL	CANADA	CANADA SUITABILITY	ENVIRONMENTAL	IEC Ex / ATEX	IEC Ex ATEX SUITABILITY	ENVIRONMENTAL
KB1FA25	1/2" NPT	1/4" NPT	Aluminum	CSAus	Class I Groups BCD Class I Zone 1 & 2 IIB+H2 Class II Groups EFG Class III Service Temperature -25°C to +40°C	Type 3, 4, 4X	CSA	Class I Groups CD Class I Zone 1 & 2 IIB Class II Groups EFG Class III Service Temperature -50°C to +40°C	Type 3, 4, 4X	CSA / SIRA	Ex db IIB+H2 Gb Ex tb IIIC Db Ambient Temperature -50°C to +60°C	IP66
KB1FAM16	1/2" NPT	M16				Type 3			Type 3			
KBM20FA25	M20	1/4" NPT				Type 3, 4, 4X			Type 3, 4, 4X			
KBM20FAM16	M20	M16				Type 3			Type 3			
KB1FA25SS6	1/2" NPT	1/4" NPT	316 SS	CSAus	Class I Groups BCD Class I Zone 1 & 2 IIB+H2 Class II Groups EFG Class III Service Temperature -25°C to +40°C	Type 3, 4, 4X	CSA	Class I Groups CD Class I Zone 1 & 2 IIB Class II Groups EFG Class III Service Temperature -50°C to +40°C	Type 3, 4, 4X	CSA / SIRA	Ex db IIB+H2 Gb Ex tb IIIC Db Ambient Temperature -50°C to +60°C	IP66
KB1FAM16SS6	1/2" NPT	M16				Type 3			Type 3			
KBM20FA25SS6	M20	1/4" NPT				Type 3			Type 3			
KBM20FAM16SS6	M20	M16				Type 3			Type 3			

TYPICAL INSTALLATION



EXH SERIES CIRCUIT BREAKER HANDLES

FEATURES

EXH Series circuit breaker handles are for use with the following Series of Killark enclosures: EXB, B7E and EXBLT.

- Used to activate circuit breakers and motor circuit protectors from front cover
- Factory or field installed in a 3/4" NPSM opening for EXH1 and EXH2 and a 1-1/4" NPSM for EXH3
- Has provision for Lock-On and Lock-Off with up to three padlocks
- External handle mechanism with through-the-enclosure shaft and internal toggle mechanism and breaker pan

Materials

- Copper-free aluminum with 316 stainless steel shaft and screens
- O-ring: 70 durometer nitrile



EXH Handle

EXH

Handle Assemble

NEC / CEC Certifications

- Class I, Div. 1 & 2, Groups B, C, & D
- Class I Zone 1 IIB+H2 Gb
- Class II, Div. 1 & 2, Groups E, F, & G
- Class III
- Type 3, 4, 4X
- Ta = -25°C to +40°C (UL)
- Ta = -50°C to +40°C (CSA)
- File 150827
- Certificate LR11714



EXH CIRCUIT BREAKER HANDLE WITH SHAFT AND PAN						
CATALOG NUMBER			BREAKER MANUFACTURER	BREAKER FRAMES TO OPERATE	MAX. AMPS	
6" DEEP BOX	8" DEEP BOX	10" DEEP BOX				
EXH1A6	EXH1A8	EXH1A10	GE	TEB-TED-THED-TEL	150	
			ITE/Siemens	ED2-ED4-ED6-HED4-HED6	125	
			Square D	FAL-FHL-FCL	100	
N/A	EXH1B8	EXH1B10	Cutler Hammer	EHD-FDB-FD-HFD-FDC-HMCP	150	
			GE	TFJ-TFK-TFK-TFL	225	
			Square D	KAL-KHL-KCL	250	
N/A	EXH2C8	EXH2C10	Cutler Hammer	JDB-JD-HJD-JDC	250	
			Cutler Hammer	DK-KDB-KD-HKD-KDC	400	
			GE	TJJ-TJK4-TJK6-THJK4-THJK6	600	
N/A	EXH3D8	EXH3D10	ITE/Siemens	FXD6-FD6-HFD6-CFD6	250	
			ITE/Siemens	JXD2-JXD6-JD6-HJD6-HHJD6-CJD6	400	
			ITE/Siemens	LXD6-LD6-HKD6-HHLD6-CLD6	600	
N/A	N/A	EXH3E10	Square D	LAL-LHL	400	
			Cutler Hammer	LDB-LD-HLD-LDC	600	
			GE	TKM8-THKM8-TKM12-THKM12	1200	
N/A	N/A	EXH3E10	ITE/Siemens	MXD6-MD6-HMXD6-HMD6-CMD6	800	
			ITE/Siemens	NXD6-ND6-HNXD6-HND6-CND6	1200	
			Square D	LCL	600	
			Square D	MAL-MHL	1000	
			Cutler Hammer	ND-HND-NDC	1200	

