

KILLARK[®]

HKH Series HAZCON Controls for Harsh and Hazardous Environments



www.hubbell-killark.com



Non-Metallic Din Rail Mount



EXAMPLE CONFIGURATIONS

SIZE 1A



SIZE 1B



SIZE 1C



SIZE 2C

Pilot Lights and Multiple Momentary Push Buttons





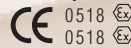
FEATURES

- Control Stations available in various configurations, up to 2 operators wide by 3 operators tall.
- Control Operators include Momentary and Maintained Push Buttons (Standard and Mushroom), Pilot Lights (Standard & Illuminated Pushbutton), and Selector Switches (2-Pos & 3-Pos)
- Ammeters available in 1B & 1C enclosure sizes.
- Explosion-Protected Contact Blocks and Pilot Lights
- Contact Blocks and Pilot Lights can be Din-Rail Mounted (in enclosure) or Panel Mounted (to operator in cover)
- Various entries available in both Metric and Standard NPT
- Gland Plates available for Non-Metallic configurations
- Accessories available for Lock-Out / Tag-Out Purposes
- Gray NC Contacts and White NO Contacts allow for easy identification

MATERIALS

- Non-Metallic Enclosure = Impact Resistant PA6 GRP (Glass Reinforced Plastic) Anti-Static Material, with f1 UV Protection and V-0 Flame Retardant Rating
- Metallic Enclosure = 316 Stainless Steel, available with Standard Internal Flange and Optional External Flange when additional access is required
- Silicone Gasketing on all enclosures and operators
- Stainless Steel External Hardware
- Brass Gland Plates
- Contacts = Silver Alloy with Gold Flashing

ATEX/IECex Certified



II 2 G Ex db eb IIC T6...T4 Gb
II 2 D Ex tb IIIC T6...T4 Db IP66

DEMKO 15 ATEX 1405X

Ex db eb IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db IP66

IECex UL 15.0054X

Ambient Range: -50°C < Ta < 60°C

cULus Certified

Class I, Zone 1, AEx db eb IIC T6...T4 Gb / Ex db eb IIC T6...T4 Gb X

Zone 21, AEx tb IIIC T85°C...T135°C Db IP66 / Ex tb IIIC T85°C...T135°C Db IP66 X

Class I, Division 2, Groups A, B, C, D

Class II, Division 1, Groups E, F, G (Canada Only)

Class II, Division 2, Groups E, F, G

Class III

UL50, 50E, 508, UL60079-0, -1, -7, -31

Type 3, 4, 4X, 12, 13

Ambient Range: -50°C < Ta < 60°C



ELECTRICAL RATING

Contact Blocks (UL)

- 690 VAC = 20A, 50-60 Hz
- 60 VDC = 5A / 110 VDC = 2A / 255 VDC = 1.5A
- 1/2 HP @ 120VAC / 1 HP @ 208/240/277 VAC
- A600/P600 Pilot Duty 350 VAC - Tungsten Lamp

Pilot Lights (UL)

- 12-250 VAC/VDC, 50-60 Hz, 0.6 Watts
- Wire Allowances (UL)
- Wire Range (1 or 2 Wires) = #22 to #12 AWG (Solid and Stranded) / #10 AWG (Stranded)

Contact Blocks (IEC)

- AC690V = 16A, AC-12, 50-60 Hz
- AC230V = 16A, AC-15, 50-60 Hz
- DC60V = 5A, DC-12
- DC125V = 1A, DC-13

Pilot Lights (IEC)

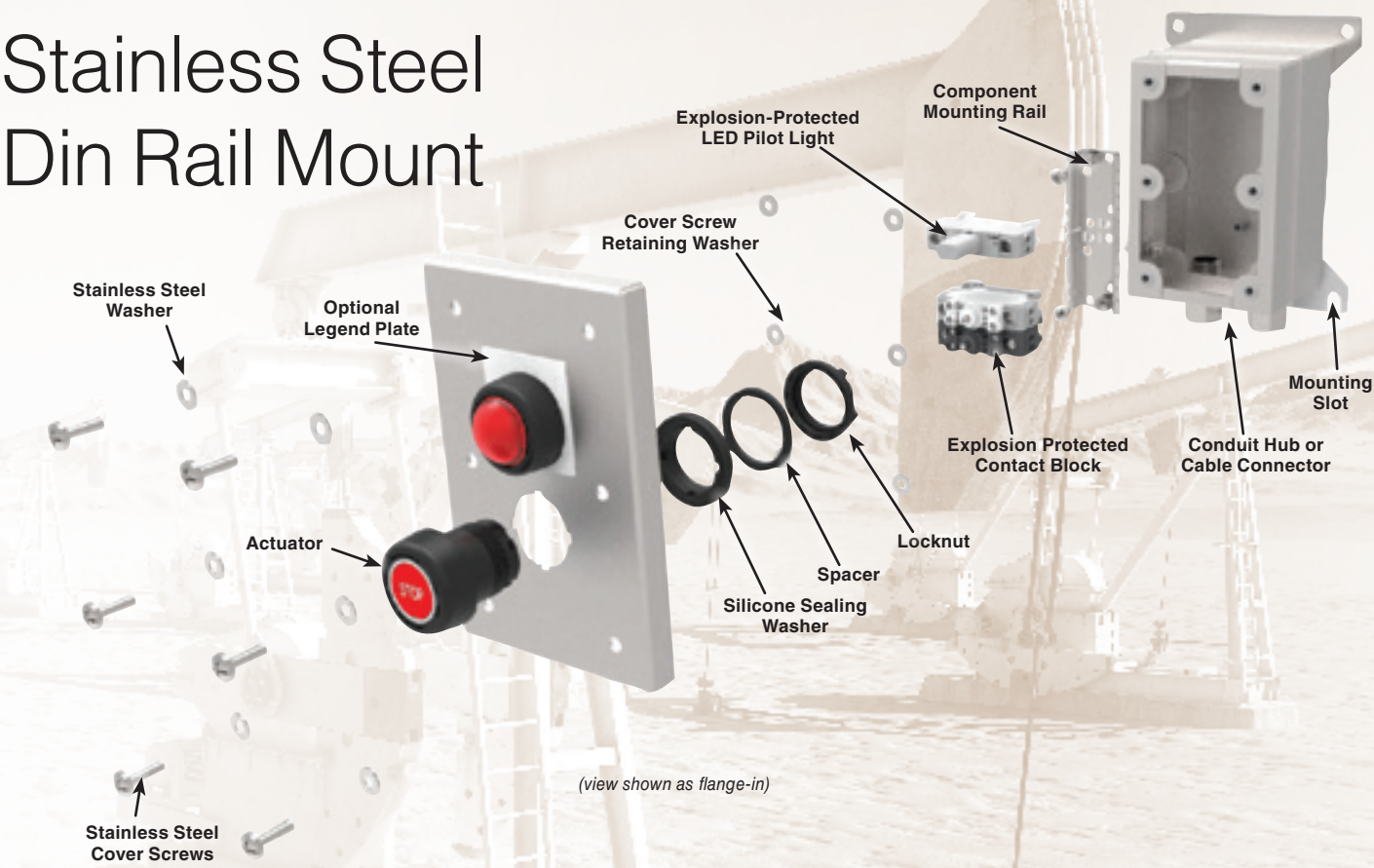
- 12-254 VAC/VDC, 50-60 Hz, 0.6 Watt

Wire Allowances (IEC)

- Wire Range (1 or 2 Wires) = 0.5 to 2.5mm² (Solid and Stranded) / 4.0 mm² (Stranded)



Stainless Steel Din Rail Mount



EXAMPLE CONFIGURATIONS

SIZE 1A



SIZE 1B



SIZE 1C



SIZE 2C



CATALOG LOGIC

HKH		1B	N	D	2		P1	1	A	L1			
BOX SIZE 1A – ONE DEVICE 1B – ONE DEVICE / TWO DEVICE 1C – TWO DEVICE / 3 DEVICE												INTRNAL EXTERNAL EARTHING STUD S – INTERNAL EXTERNAL EARTH STUD - ONE WITH EACH ECP	
MATERIAL N – GRP POLYAMIDE S – 316 STAINLESS STEEL FLANGE IN E – 316 STAINLESS STEEL FLANGE OUT												HUB/GLAND CONSULT FACTORY	
CONTACT/PILOT LIGHT MOUNTING METHOD D – DIN RAIL MOUNT P – PANEL MOUNT												ACCESSORY L1 – LOCKOUT, SST DEPRESSED LOCKOUT, PUSHBUTTON, MOMENTARY L2 – LOCKOUT, PLASTIC COVER, PUSHBUTTON, MUSHROOM, SELECTOR L3 – LOCKOUT, SST BAR LOCKOUT, PUSHBUTTON, DEPRESSED MUSHROOM L4 – LOCKOUT, SST HINGED, PUSHBUTTON, DEPRESSED MUSHROOM L5 – SHROUD, PUSHBUTTON, MUSHROOM L6 – LOCKOUT, SS DEPRESSED DOUBLE PUSHBUTTON, MOMENTARY L7 – LOCKOUT, SS, 2 POSITION SELECTOR L8 – LOCKOUT, SS, 3 POSITION SELECTOR	
ENTRY FOR CABLE 1 – 1/2"NPT HOLE BOTTOM 2 – 3/4"NPT HOLE BOTTOM *3 – 1"NPT HOLE BOTTOM 4 – 1/2" NPT HOLE FEED THRU 5 – 3/4" NPT HOLE FEED THRU *6 – 1" NPT HOLE FEED THRU 7 – 1/2"NPT HOLE TOP 8 – 3/4" NPT HOLE TOP *9 – 1" NPT HOLE TOP A – M20 GLAND HOLE BOTTOM D – 2EA M20 GLAND HOLE BOTTOM G – M25 GLAND HOLE BOTTOM K – 2EA M25 GLAND HOLE BOTTOM			N – M32 GLAND HOLE BOTTOM **R – 1EA M20 TAPPED HOLE BOTTOM **S – 1EA M25 TAPPED HOLE BOTTOM **T – 2EA M20 TAPPED HOLE BOTTOM **U – 2EA M25 TAPPED HOLE BOTTOM **V – 1EA M32 TAPPED HOLE BOTTOM Z – CUSTOM ENTRIES (CONSULT FACTORY)									LEGEND PLATE A – START B – STOP C – POWER ON D – POWER OFF E – EMERGENCY STOP F – PUSH TO TEST G – RAISE H – LOWER J – OPEN K – CLOSE L – FORWARD M – REVERSE N – RESET P – UP Q – DOWN R – ON-OFF S – OFF-ON T – UP-DOWN X – HAND-AUTO Y – OPEN-CLOSE 0 – BLANK 1 – SPECIFY CUSTOM MARKING 2 – RAISE-OFF-LOWER 3 – JOG-OFF-RUN 4 – RUN-OFF-JOG 5 – FWD-OFF-REV 9 – HAND-OFF-AUTO	
BRASS ECP PLATE FOR METRIC ONLY E – WITH BRASS EARTH CONTINUITY PLATE METRIC ONLY													
OPERATOR A – AMMETER BA – ILLUMINATED PUSH BUTTON, AMBER BB – ILLUMINATED PUSH BUTTON, BLUE BC – ILLUMINATED PUSH BUTTON, CLEAR BG – ILLUMINATED PUSH BUTTON, GREEN BR – ILLUMINATED PUSH BUTTON, RED CP – COVER BLANKING PLUG K1 – KEY SELECTOR SWITCH, 2 POS. MAINT. K2 – KEY SELECTOR SWITCH, 2 POS. MOM. RIGHT K3 – KEY SELECTOR SWITCH, 3 POS. MAINT. K4 – KEY SELECTOR SWITCH, 3 POS. MOM. LEFT & RIGHT K5 – KEY SELECTOR SWITCH, 3 POS. MOM. RIGHT K6 – KEY SELECTOR SWITCH, 3 POS. MOM. LEFT LA – AMBER LENS ASSY LB – BLUE LENS ASSY LC – CLEAR LENS ASSY LG – GREEN LENS ASSY LR – RED LENS ASSY M1 – PUSHBUTTON, MUSHROOM MOMENTARY, RED M2 – PUSHBUTTON, MUSHROOM MOMENTARY, GRN M3 – PUSHBUTTON, MUSHROOM MOMENTARY, BLK			M4 – PUSHBUTTON, MUSHROOM PULL RELEASE MAINTAINED, RED M5 – PUSHBUTTON, MUSHROOM PULL RELEASE MAINTAINED, GRN M6 – PUSHBUTTON, MUSHROOM PULL RELEASE MAINTAINED, BLK M7 – PUSHBUTTON, MUSHROOM TWIST RELEASE MAINT, RED M8 – PUSHBUTTON, MUSHROOM KEY MAINT, RED, KEY RELEASE P1 – PUSHBUTTON, MOMENTARY, GS,RS,RO,GI,G,R,B P2 – DOUBLE PUSHBUTTON, MOMENTARY, GS,RS,G0,G1,G,R,B RS – ROCKER SWITCH S1 – SELECTOR SWITCH, 2 POS. MAINT. S2 – SELECTOR SWITCH, 2 POS. MOM. RIGHT S3 – SELECTOR SWITCH, 3 POS. MAINT. S4 – SELECTOR SWITCH, 3 POS. MOM. LEFT & RIGHT S5 – SELECTOR SWITCH, 3 POS. MOM. RIGHT S6 – SELECTOR SWITCH, 3 POS. MOM. LEFT TC – MOMENTARY P.B. 3 CONTACTS V – VOLTMETER (AC)										CONTROL MODULE L – LED LAMP 1 – 1 NO/1 NC 2 – 1 NO 3 – 1 NC 4 – 2NO 5 – 2NC ***6 – 2NO/1NC ***7 – 1NO/2NC ***8 – 3NO ***9 – 3NC
												* Available in Enclosure Material type "S" and "E" only ** Available in Enclosure Material type "N" only ***Available only with operator "TC". Note: Additional options available not shown. Consult factory for modifications not listed.	



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