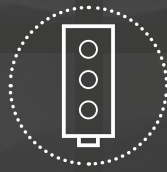


CONTROL STATIONS

..... *For Harsh & Hazardous Environments*





Harsh & Hazardous

Hubbell Harsh & Hazardous

Extreme environments demand superior performance, which is why you will find Hubbell products and systems installed in some of the most arduous and safety critical locations worldwide.

The Hubbell Harsh & Hazardous group combines dedicated, market leading brands within the Hubbell portfolio to provide a complete package for companies operating in some of the toughest environments on the planet.

We are committed to providing quality products and services that will meet and exceed your expectations. Our principal activities include the design and manufacture of rugged and hard wearing products. These include telephones and communication products, lighting, control gear and electrical connection products, all designed to operate primarily in extreme outdoor, hazardous and corrosive areas.

Our Brands

All of our brands are long established and well respected businesses within each of their industries, our primary industry sectors include:

Oil & Gas, Petrochemical, Industrial, Marine, Military, Transport and Commercial.



Corporate Information

Hubbell Incorporated HQ is based in Connecticut, U.S.A. and you can find out more information about the Hubbell Group on our corporate website at www.hubbell.com

www.harshandhazardous.com

60 Years of Excellence

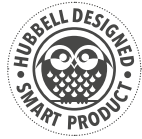
For customers who demand quality, reliability and above all, safety, Hawke International is the market leading brand you can trust. For 60 years Hawke International has provided peace of mind to end users, contractors and installers.

Superior products, unmatched engineering excellence and a guarantee of quality far beyond the point of supply, we partner you in your drive for operational excellence.

Smarter Products

Having gained credibility worldwide for testing under extreme conditions, safety and reliability continue to be Hawke's primary objectives. Our superior, feature rich, product designs utilise long life materials allowing ease of installation and a product that you can depend on for years to come. Our uniquely designed "Smart Products" offer important saving qualities and relevant product literature will now carry our stamp of endorsement. Look out for these great customer focused products.

Voice of the customer reflected in smart design.



- Installation Saving
- Cost Saving
- Energy Saving

Hawke developed the very first cable gland in 1957. We continue to grow and develop superior cable termination solutions including a full range of cable glands, accessories, cable connectors, junction boxes and now in 2016, our full range of Hazcon control stations.

Worldwide

Located in Manchester, UK, Hawke International has stocking operations in Houston, USA and Singapore along with direct representation in Australia, Brazil, Dubai, Canada, China, Malaysia and South Korea.

Supported worldwide by an unrivalled network of approved agents and distributors we guarantee easy access to our full product range globally.

A Quality Company

Hawke International's products are designed and manufactured under a quality system not only complying with ISO 9001 but also with the latest international standards. Rigorous and regular in-house testing ensures that every product manufactured meets the highest quality standards expected by today's markets.

CONTENTS

4	Overview
5	Assembly Arrangement
6	Part Number Logic
8	Standard Control Stations
13	Dimensional Data
15	Accessories
16	Actuator Accessories
20	Control Station Modules
22	Legend Plate Application
23	Cable Glands



Hazcon Control Stations

Glass Reinforced Polymer (GRP) & Stainless Steel Control Stations

The Hazcon control station range is a key addition to the Hubbell Harsh and Hazardous product line. Developed to exceed customer expectations, the range further enhances our connection and control solution based product portfolio.

Applications

- For use in areas designated Zone 1/21, Zone 2/22, where explosive gases and combustible dusts are present, i.e. petrochemical facilities, power plants, chemical sites and petroleum refineries
- Fuel processing or storage plants where potential hazards exist
- Wide range of pushbuttons and 2 or 3 way selector switches, for use in actuation and indication of control systems status in remote environments and maintaining operator safety with immediate action Emergency Stop systems

Features

- Ambient temperature operational range -50°C to +60°C
- Available in 316 L or high impact resistant glass reinforced anti-static polymer (GRP)
- UL flame retardant rating of V-0 on GRP enclosure
- IP66 ingress protection
- Brass earth continuity plates available for metric size cable entries (GRP version)
- 5 enclosure sizes offering 1 - 6 gang operator options
- LED indicator with 5 coloured lenses (amber, red, blue, green or clear)
- Single and double pushbuttons
- Emergency stop button option - pull or twist to release. Key release option also available
- Silicone gasket on operators and enclosures
- Moulded one piece silicone gasket on operators and enclosures
- High switch current contact blocks
- LED's are suitable for multifunction voltages for both AC and DC applications ranging from 12 to 254 volts
- Easy installation onto structures without removing the enclosure lid

Global Certification

One of the design criteria of the Hazcon range was to achieve a universal solution that met the testing standards of ATEX/IECEx and UL. Certified by Demko to the ATEX standards and UL to IECEx, Canadian & US standards, the product can be optionally marked cULus for use in both America and Canada. ATEX/IECEx labeled products are also marked EAC and Inmetro, making the product suitable for installation in Brazil, Russia, Belarus and Kazakhstan.



IEC Ex



EAC



Complies with RoHS, WEEE, ATEX, EMC and Low Voltage directives.

Hazcon Certification

	ATEX/IECEx	cULus
Certificates	DEMKO 15 ATEX 1405X IECEx UL 15.0054X	UL File E53360
Area Classification	Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22, Gas Groups IIA, IIB and IIC	Class I Div 2 Grp A,B,C,D Class II Div 1 Grp E,F,G (Canada only) Class II Div 2 Grp E,F,G Class III
IP Rating	IP66	TYPE 3, 4, 4X,12,13
Protection Method	Ex II 2 G Ex de IIC T6/T5/T4 Gb Ex II 2 D Ex tb IIIC T85°C/T135°C Db	Class I, Zone 1 AEx de IIC Gb T6...T4 Zone 21 AEx tb IIIC Db T85 °C...T135 °C IP66 (U.S.) Ex de IIC Gb T6...T4 Ex tb IIIC Db T85 °C...T135 °C IP66 (CAN)
Construction/Test Standards	EN 60079-0:2012+A11:2013; EN 60079-1:2007; EN 60079-7:2007; EN 60079-31:2014 IEC 60079-0:2011; IEC 60079-1:2007-04; IEC 60079-31:2013; IEC 60079-7:2006-07	UL50, UL50E, UL508, UL/CSA60079-0, -1, -7, -31
Material	GRP PA6 Glass Reinforced Antistatic Material. Grade 316L Stainless Steel	GRP PA6 Glass Reinforced Antistatic Material. Grade 316L Stainless Steel
Operating Temperature	-50°C to 60°C	-50°C to 60°C



Product Overview

Range

The Hazcon range is available in 5 enclosure sizes depending on quantity of actuators required:

1A (1 actuator) 1B (up to 2 actuators) & 1C (up to 3 actuators)
2A (up to 4 actuators) & 2C (up to 6 actuators).

Options

Designed to accept either din rail mount, or panel mount contact blocks, there is a complete range of options available including pushbuttons, selector switches and ammeters. Contact block modules are individual and uniquely colour coded for ease of use: N/C = Grey, N/O = White.

The full range of actuators and indicators are also available for Panel Mount applications.

IP and NEMA

IP66 and NEMA 4X ratings. Operator gaskets are fixed on the internal side of the lid assemblies, ensuring an IP66 rating.

Mounting

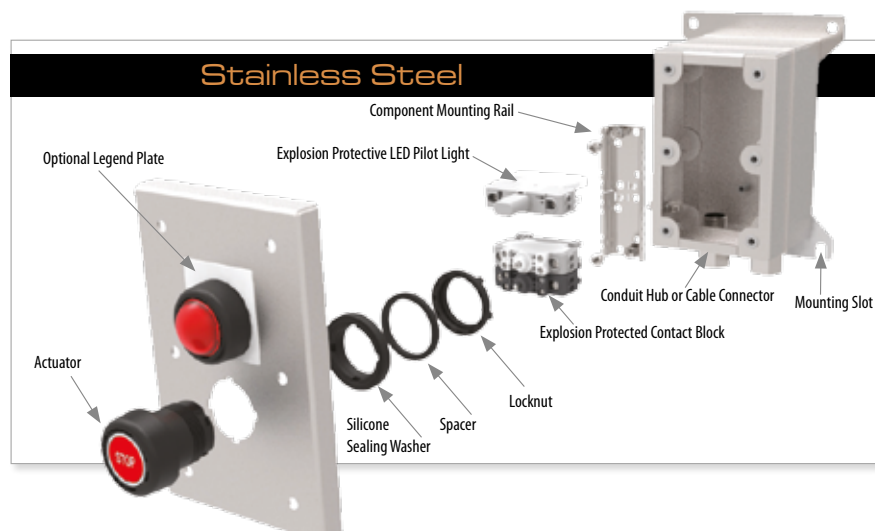
GRP enclosures are easily mounted using just 2 fixing points. The stainless steel enclosure has 4 fixing points, 2 of which are slotted. The enclosures can all be mounted to structures without removing the enclosure lid thus eliminating unnecessary ingress of water, dust and insects.

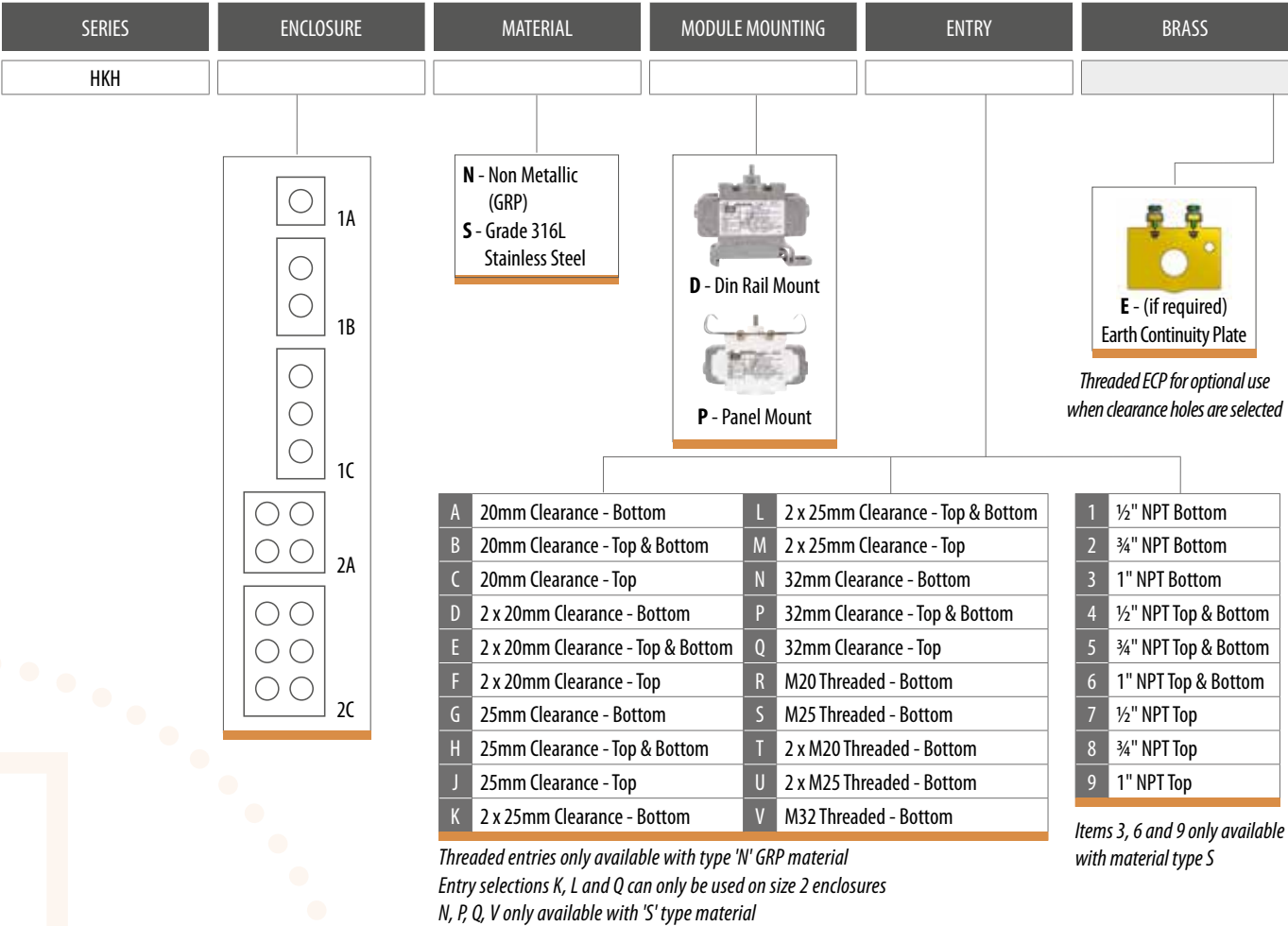
Cable Entries

For size 1 & size 2 enclosures - 20 mm to 32 mm on Face C (bottom). For through wired requirements cable entries can be added to Face A (top) of the boxes. NPT entries are also available for use with approved adaptors.

Impact

Tested to the latest ATEX/IECEx standards, all operators and enclosures have passed high impact tests at and beyond the high and low temperature ranges stated.





MATERIAL

N - Non Metallic (GRP)

S - Grade 316L Stainless Steel

MODULE MOUNTING

D - Din Rail Mount

P - Panel Mount

ENTRY

A	20mm Clearance - Bottom	L	2 x 25mm Clearance - Top & Bottom
B	20mm Clearance - Top & Bottom	M	2 x 25mm Clearance - Top
C	20mm Clearance - Top	N	32mm Clearance - Bottom
D	2 x 20mm Clearance - Bottom	P	32mm Clearance - Top & Bottom
E	2 x 20mm Clearance - Top & Bottom	Q	32mm Clearance - Top
F	2 x 20mm Clearance - Top	R	M20 Threaded - Bottom
G	25mm Clearance - Bottom	S	M25 Threaded - Bottom
H	25mm Clearance - Top & Bottom	T	2 x M20 Threaded - Bottom
J	25mm Clearance - Top	U	2 x M25 Threaded - Bottom
K	2 x 25mm Clearance - Bottom	V	M32 Threaded - Bottom

Threaded entries only available with type 'N' GRP material

Entry selections K, L and Q can only be used on size 2 enclosures

N, P, Q, V only available with 'S' type material

BRASS

E - (if required) Earth Continuity Plate

Threaded ECP for optional use when clearance holes are selected

P1

MOMENTARY PUSH BUTTON TWO CONTACTS

TC

MOMENTARY PUSH BUTTON 3 CONTACTS

P2

DOUBLE PUSH BUTTON

M1

RED

M2

GREEN

M3

BLACK

M4

RED

M5

GREEN

M6

BLACK

M7

RED

M8

RED

Product Drawings

Hazcon control stations are identified by unique drawing numbers. Once ordered the catalogue string is converted to a drawing for customer confirmation. This drawing number appears on the product label i.e. HKH1ANDRM75E-1 becomes HKHMOD800005

HAWKE

International

ASHTON UNDER LYNE, OL7 0NA, UK

Ser No. 16W1234567

CAT. NO.

HKHMOD800005









COUNTRY / DATE CODE

UK/2016

WWW.HARSHANDHAZARDOUS.COM

6


HAWKE International


ACTUATOR/INDICATOR	MODULE TYPE	LEGEND	ACTUATOR ACCESSORY	ENTRY ACCESSORY	INT/EXT EARTH	CERTIFICATION																		
						-1																		
<table><tr><td>L</td><td>LED LAMP</td></tr><tr><td>1</td><td>1 NO / 1 NC</td></tr><tr><td>2</td><td>1 NO</td></tr><tr><td>3</td><td>1 NC</td></tr><tr><td>4</td><td>2 NO</td></tr><tr><td>5</td><td>2 NC</td></tr><tr><td>6</td><td>2 NO / 1 NC</td></tr><tr><td>7</td><td>1 NO / 2 NC</td></tr><tr><td>8</td><td>3 NO</td></tr><tr><td>9</td><td>3 NC</td></tr></table> <p>Items 6, 7, 8 and 9 only for use with operator 'TC'</p> <div><p>Standard operator legends or customer specific marking legends available.</p><p>FOR DETAILS SEE PAGE 22</p></div>	L	LED LAMP	1	1 NO / 1 NC	2	1 NO	3	1 NC	4	2 NO	5	2 NC	6	2 NO / 1 NC	7	1 NO / 2 NC	8	3 NO	9	3 NC		<div><div>L1</div><div></div><div>STAINLESS STEEL LOCKOUT DEPRESSED PUSHBUTTON</div></div> <div><div>L2</div><div></div><div>PLASTIC COVER LOCKOUT PUSHBUTTON/MUSHROOM/ SELECTOR SWITCH</div></div> <div><div>L3</div><div></div><div>STAINLESS STEEL BAR PUSHBUTTON LOCKOUT/ MUSHROOM DEPRESSED</div></div> <div><div>L4</div><div></div><div>STAINLESS STEEL HINGED LOCKOUT PUSHBUTTON LOCKOUT/MUSHROOM DEPRESSED</div></div>	<div><div>H*</div><div></div><div>421 CABLE GLAND</div></div> <div><div>J*</div><div></div><div>453/RAC CABLE GLAND</div></div> <div><div>U*</div><div></div><div>453 UNIVERSAL CABLE GLAND</div></div> <p><i>* See page 23 for gland details</i></p>	<div></div> <p><i>Optional internal/external earth tag Can be used with or without ECP</i></p> <div><div>-1</div><div>IECEx/ATEX VERSION (default) EAC INMETRO</div></div> <div><div>-2</div><div>cULus ONLY VERSION</div></div> <p><i>cULus AND ATEX/IECEx labelling available upon request</i></p>
L	LED LAMP																							
1	1 NO / 1 NC																							
2	1 NO																							
3	1 NC																							
4	2 NO																							
5	2 NC																							
6	2 NO / 1 NC																							
7	1 NO / 2 NC																							
8	3 NO																							
9	3 NC																							


LAMP LENS
LR RED
LG GREEN
LA AMBER
LC CLEAR
LB BLUE


ILLUMINATED PUSH BUTTON
BR RED
BG GREEN
BA AMBER
BC CLEAR
BB BLUE

1 indicator / 2 contacts


SELECTOR SWITCH
S1 2 POS. MAINTAINED
S2 2 POS. MOM RIGHT
S3 3 POS. MAINTAINED
S4 3 POS. MOMENTARY LEFT & RIGHT
S5 3 POS. MOM RIGHT
S6 3 POS. MOM LEFT


KEY SELECTOR SWITCH
K1 2 POS. MAINTAINED
K2 2 POS. MOM RIGHT
K3 3 POS. MAINTAINED
K4 3 POS. MOMENTARY LEFT & RIGHT
K5 3 POS. MOM RIGHT
K6 3 POS. MOM LEFT


CP COVER BLANK PLUG

ORDER EXAMPLE

SERIES	ENCLOSURE	MATERIAL	MODULE MOUNTING	ENTRY	ECP	ACTUATOR	MODULE TYPE	LEGEND	ACTUATOR ACCESSORY	ENTRY ACCESSORY	INT/EXT	CERTIFICATION
HKH	1A	N	D	R		M7	5	E				-1

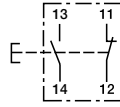
White and orange boxes must be populated.

Repeat entries in orange boxes for multiple gang control stations. Grey boxes indicate optional entries.



HKH1ANDRM75E-1
Single Gang E-Stop - 1xM20
2x N/C Contact Blocks

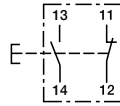
1A - Momentary Single Push Button



Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
	HKH1ANDAP11-1	HKH1ANDRP11-1	HKH1ASDAP11-1

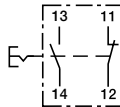
Supplied with 7 coloured and marked disc inserts

1A - Momentary Single Push Button - Mushroom



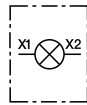
Contact Block	GRP		Stainless steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED Stop	HKH1ANDAM11B-1	HKH1ANDRM11B-1	HKH1ASDAM11B-1
GREEN Start	HKH1ANDAM21A-1	HKH1ANDRM21A-1	HKH1ASDAM21A-1
BLACK Blank	HKH1ANDAM310-1	HKH1ANDRM311-1	HKH1ASDAM310-1

1A - Maintained Single Push Pull Button - Mushroom



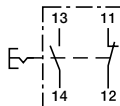
Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED Stop	HKH1ANDAM41B-1	HKH1ANDRM41B-1	HKH1ASDAM41B-1
GREEN Start	HKH1ANDAM51A-1	HKH1ANDRM51A-1	HKH1ASDAM51A-1
BLACK Blank	HKH1ANDAM610-1	HKH1ANDRM611-1	HKH1ASDAM610-1

1A - Single Indicator Light



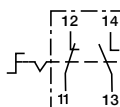
Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamp	M20 Clearance	M20 Threaded	M20 Clearance
RED LED	HKH1ANDALRL0-1	HKH1ANDRLRL0-1	HKH1ASDALRL0-1
GREEN LED	HKH1ANDALGL0-1	HKH1ANDRLGL0-1	HKH1ASDALGL0-1
AMBER LED	HKH1ANDALAL0-1	HKH1ANDRLAL0-1	HKH1ASDALAL0-1
CLEAR LED	HKH1ANDALCL0-1	HKH1ANDRLCL0-1	HKH1ASDALCL0-1
BLUE LED	HKH1ANDALBL0-1	HKH1ANDRLBL0-1	HKH1ASDALBL0-1

1A - Maintained Mushroom Head E-Stop



Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED E-STOP Pull Release	HKH1ANDAM41E-1	HKH1ANDRM41E-1	HKH1ASDAM41E-1
RED E-STOP Twist Release	HKH1ANDAM71E-1	HKH1ANDRM71E-1	HKH1ASDAM71E-1

1A - Rocker Switch Maintained in 2 Positions



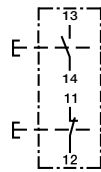
Contact Block	GRP		Stainless Steel
	M20 Clearance	M20 Threaded	M20 Clearance
2 N.O	HKH1ANDARS4-1	HKH1ANDRRS4-1	HKH1ASDARS4-1
1 N.C/1 N.O	HKH1ANDARS1-1	HKH1ANDRRS1-1	HKH1ASDARS1-1

Standard configuration control stations not supplied with ECP. Entry holes on bottom face.

DISC INSERTS Supplied with push button control stations



1A - Double Momentary Push Button 1 N.O. Start / 1 N.C Stop

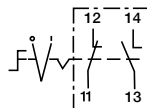


Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank BLACK: Blank	HKH1ANDAP21-1	HKH1ANDRP21-1	HKH1ASDAP21-1



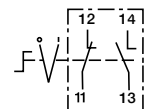
International Approvals

1A - Maintained 2-Position Selector Switch



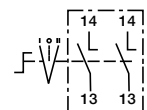
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
OFF/ON LEGEND	HKH1ANDAS11S-1	HKH1ANDRS11S-1	HKH1ASDAS11S-1

1A - 2-Position Selector Switch Spring Return, Momentary Right, Maintained Left



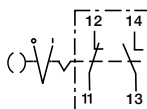
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
BLANK LEGEND	HKH1ANDAS210-1	HKH1ANDRS210-1	HKH1ASDAS210-1

1A - 3 Position Selector Switch



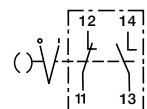
Contact Block	GRP		Stainless Steel
2 N.O	M20 Clearance	M20 Threaded	M20 Clearance
3 Position Maintained (Hand-Off-Auto)	HKH1ANDAS349-1	HKH1ANDRS349-1	HKH1ASDAS349-1
Maintained Centre - Spring L+R (Blank)	HKH1ANDAS440-1	HKH1ANDRS440-1	HKH1ASDAS440-1
2 Position Maintained - Spring R (Blank)	HKH1ANDAS540-1	HKH1ANDRS540-1	HKH1ASDAS540-1
2 Position Maintained - Spring L (Blank)	HKH1ANDAS640-1	HKH1ANDRS640-1	HKH1ASDAS640-1

1A - Maintained 2-Position Keyed Selector Switch



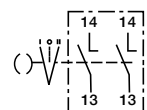
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
OFF/ON LEGEND	HKH1ANDAK11S-1	HKH1ANDRK11S-1	HKH1ASDAK11S-1

1A - 2-Position Keyed Selector Switch Spring Return, Momentary Right, Maintained Left



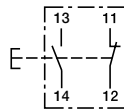
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
BLANK LEGEND	HKH1ANDAK210-1	HKH1ANDRK210-1	HKH1ASDAK210-1

1A - 3 Position Keyed Selector Switch



Contact Block	GRP		Stainless Steel
2 N.O	M20 Clearance	M20 Threaded	M20 Clearance
3 Position Maintained (Hand-Off-Auto)	HKH1ANDAK349-1	HKH1ANDRK349-1	HKH1ASDAK349-1
Maintained Centre - Spring L+R (Blank)	HKH1ANDAK440-1	HKH1ANDRK440-1	HKH1ASDAK440-1
2 Position Maintained - Spring R (Blank)	HKH1ANDAK540-1	HKH1ANDRK540-1	HKH1ASDAK540-1
2 Position Maintained - Spring L (Blank)	HKH1ANDAK640-1	HKH1ANDRK640-1	HKH1ASDAK640-1

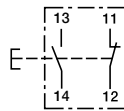
1B - Momentary Single Push Button



Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
BLANK LEGEND	HKH1BNDAP11-1	HKH1BNDRP11-1	HKH1BSDAP11-1

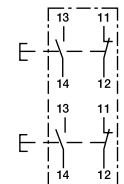
Supplied with 7 coloured and marked disc inserts

1B - Momentary Single Push Button - Mushroom



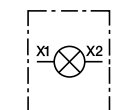
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED Stop	HKH1BNDAM11B-1	HKH1BNDRM11B-1	HKH1BSDAM11B-1
GREEN Start	HKH1BNDAM21A-1	HKH1BNDRM21A-1	HKH1BSDAM21A-1
BLACK Blank	HKH1BNDAM310-1	HKH1BNDRM311-1	HKH1BSDAM310-1

1B - Two Momentary Push Button 1 N.O. Start / 1 N.C Stop



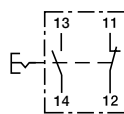
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank	HKH1BNDAP11AP11-1	HKH1BNDRP11AP11-1	HKH1BSDAP11AP11-1

1B - Single Indicator Light



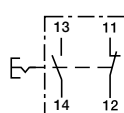
Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED LED	HKH1BNDALRL0-1	HKH1BNDRLRL0-1	HKH1BSDALRL0-1
GREEN LED	HKH1BNDALGL0-1	HKH1BNDRLGL0-1	HKH1BSDALGL0-1
AMBER LED	HKH1BNDALAL0-1	HKH1BNDRLAL0-1	HKH1BSDALAL0-1
CLEAR LED	HKH1BNDALCL0-1	HKH1BNDRLCL0-1	HKH1BSDALCL0-1
BLUE LED	HKH1BNDALBL0-1	HKH1BNDRLBL0-1	HKH1BSDALBL0-1

1B - Maintained Mushroom Head E-Stop



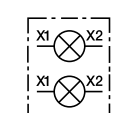
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED E-Stop - Pull Release	HKH1BNDAM41E-1	HKH1BNDRM41E-1	HKH1BSDAM41E-1
RED E-Stop - Twist Release	HKH1BNDAM71E-1	HKH1BNDRM71E-1	HKH1BSDAM71E-1

1B - Maintained Single Push Pull Button - Mushroom



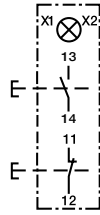
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED Stop	HKH1BNDAM41B-1	HKH1BNDRM41B-1	HKH1BSDAM41B-1
GREEN Start	HKH1BNDAM51A-1	HKH1BNDRM51A-1	HKH1BSDAM51A-1
BLACK Blank	HKH1BNDAM610-1	HKH1BNDRM611-1	HKH1BSDAM610-1

1B - Double Indicator Light



Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamps	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED/GREEN	HKH1BNDALRL0GL0-1	HKH1BNDRLRL0GL0-1	HKH1BSDALRL0GL0-1
RED/RED	HKH1BNDALRL0RL0-1	HKH1BNDRLRL0RL0-1	HKH1BSDALRL0RL0-1
GREEN/GREEN	HKH1BNDALGL0GL0-1	HKH1BNDRLGL0GL0-1	HKH1BSDALGL0GL0-1

1B - Double Momentary Push Button 1 N.O. Start / 1 N.C Stop & Indicator Light

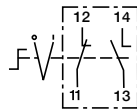


Contact Block	GRP		Stainless Steel
1 N.O./1 N.C. 12V-254V AC/DC Red Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank Red Indicator Lamp	HKH1BNDALRL0P21-1	HKH1BNDRLRL0P21-1	HKH1BSDALRL0P21-1



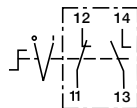
International Approvals

1B - Maintained 2-Position Selector Switch



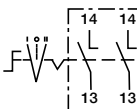
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
OFF/ON LEGEND	HKH1BNDAS11S-1	HKH1BNDRS11S-1	HKH1BSDAS11S-1

1B - 2-Position Selector Switch Spring Return, Momentary Right, Maintained Left



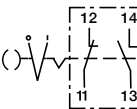
Description	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
BLANK LEGEND	HKH1BNDAS210-1	HKH1BNDRS210-1	HKH1BSDAS210-1

1B - 3 Position Selector Switch



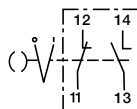
Contact Block	GRP		Stainless Steel
2 N.O	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
3 Position Maintained (Hand-Off-Auto)	HKH1BNDAS349-1	HKH1BNDRS349-1	HKH1BSDAS349-1
Maintained Centre - Spring L+R (Blank)	HKH1BNDAS440-1	HKH1BNDRS440-1	HKH1BSDAS440-1
2 Position Maintained - Spring R (Blank)	HKH1BNDAS540-1	HKH1BNDRS540-1	HKH1BSDAS540-1
2 Position Maintained - Spring L (Blank)	HKH1BNDAS640-1	HKH1BNDRS640-1	HKH1BSDAS640-1

1B - Maintained 2-Position Keyed Selector Switch



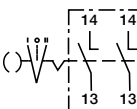
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
OFF/ON LEGEND	HKH1BNDAK11S-1	HKH1BNDRK11S-1	HKH1BSDAK11S-1

1B - 2-Position Keyed Selector Switch Spring Return, Momentary Right, Maintained Left



Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
BLANK LEGEND	HKH1BNDAK210-1	HKH1BNDRK210-1	HKH1BSDAK210-1

1B - 3 Position Keyed Selector Switch



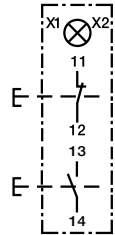
Contact Block	Non GRP		Stainless Steel
2 N.O	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
3 Position Maintained (Hand-Off-Auto)	HKH1BNDAK349-1	HKH1BNDRK349-1	HKH1BSDAK349-1
Maintained Centre - Spring L+R (Blank)	HKH1BNDAK440-1	HKH1BNDRK440-1	HKH1BSDAK440-1
2 Position Maintained - Spring R (Blank)	HKH1BNDAK540-1	HKH1BNDRK540-1	HKH1BSDAK540-1
2 Position Maintained - Spring L (Blank)	HKH1BNDAK640-1	HKH1BNDRK640-1	HKH1BSDAK640-1

International Approvals



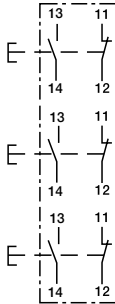



1C - Red Indicator Light & Two Momentary Push Buttons



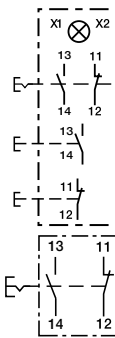
Contact Block	GRP		Stainless Steel
1 N.C. - RED STOP 1 N.O. - GREEN START 12V-254V AC/DC Red Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
BLANK LEGEND	HKHMOD8000015	TBA	HKHMOD8000020

1C - Three Momentary Push Button 1 N.O. Start / 1 N.C Stop



Contact Block	GRP		Stainless Steel
1 N.O./1 N.C x 3	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank BLACK: Blank	HKHMOD8000016	TBA	HKHMOD8000021

1C - Red Indicator Light, Maintained Mushroom Push Button, Double Momentary Push Button



Contact Block	GRP		Stainless Steel
1 N.O./1 N.C x 2 12V-254V AC/DC Red Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED E-Stop - Pull Release	HKHMOD8000017	TBA	HKHMOD8000022
RED E-Stop - Twist Release	HKHMOD8000018	TBA	HKHMOD8000023

Ammeters 1A, 5A, 72mm

Measuring Type	Overload Scale	Measuring Range
DIRECT MEASURING	2	0-1/2A
		0-4/8A
		0-5/10A
		0-10/20A
		0-15/30A
FOR CURRENT TRANSFORMER	5	0-1/5A
		0-2.5/12.5A
		0-5/25A
		0-15/75A
		0-25/125A
		0-40/200A
		0-50/250A
		0-60/300A
		0-75/375A
		0-100/500A
		0-150/750A
		0-200/1000A
		0-250/1250A
		0-300/1500A
		0-400/2000A
		0-500/2500A
		0-600/3000A



Ammeters / Voltmeters

A full range of Direct Measuring or Current Transformer Ammeters and Voltmeters are available.

Hawke Ammeters/Voltmeters will be offered in stainless steel or GRP, in enclosure sizes 1B or 1C. Voltmeter measuring range options will cover from 25Vac to 500Vac.

Direct Measuring Ammeters will be offered with five scale cards from 1 to 15 amps (2 times overload scale) and the Current Transformer option ranges from 1 to 600 amps (five times overload scale). Ammeter/Voltmeter cases are 72mm wide and all come with a red line indicator to provide a clear current set point.

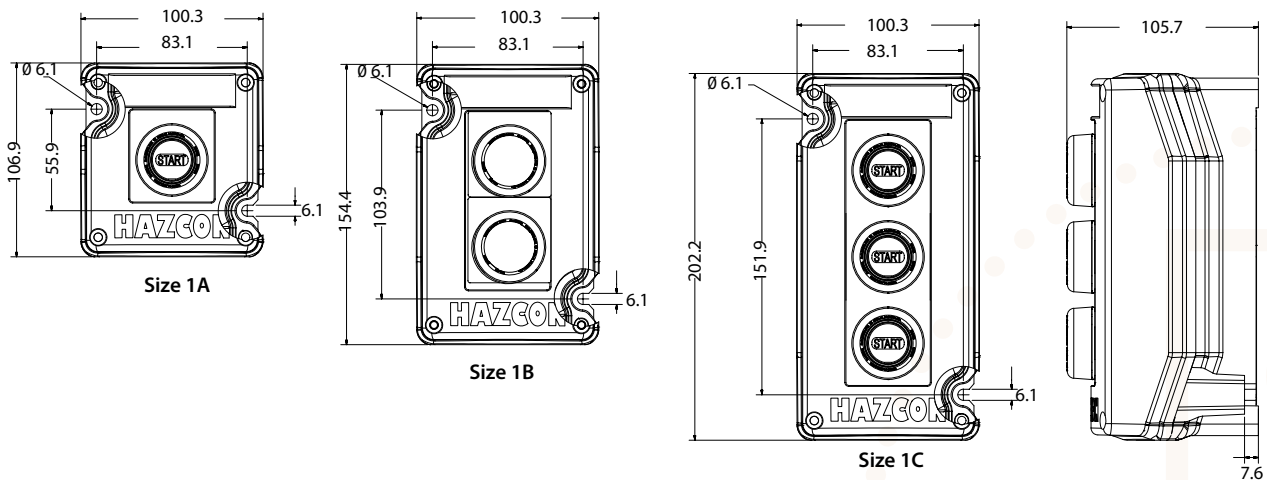
Contact Hawke sales office for more details.



Voltmeters 72mm

Range (AC)
0-25V
0-40V
0-150V
0-250V
0-500V

Size 1 GRP Enclosures

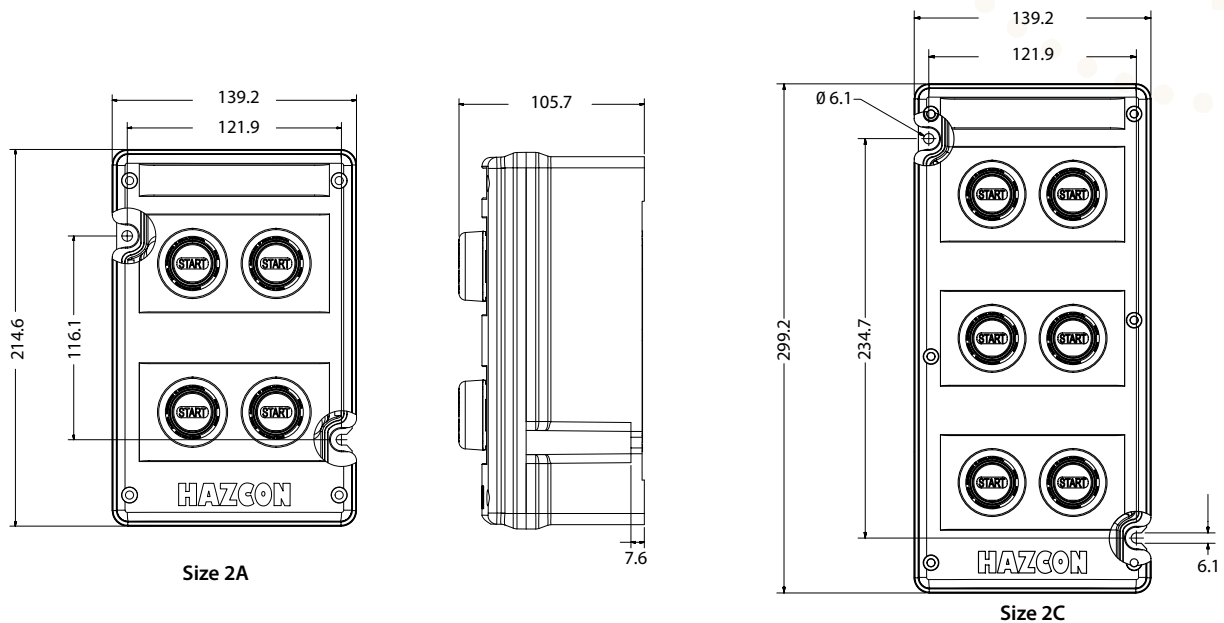


Note:- Mounting hole dimensions moulded into enclosure base.

Maximum Quantity of Entries for Size 1A, 1B and 1C									
Entry Size	M20	M25	M32	20 mm	25 mm	32 mm	1/2" NPT	3/4" NPT	1" NPT
Face A (Top)	-	-	-	2	1	-	1	1	1
Face C (Base)	2	1	-	2	1	-	1	1	1

'M' before number denotes threaded entry. 'mm' after number denotes gland hole (unthreaded) - ECP optional

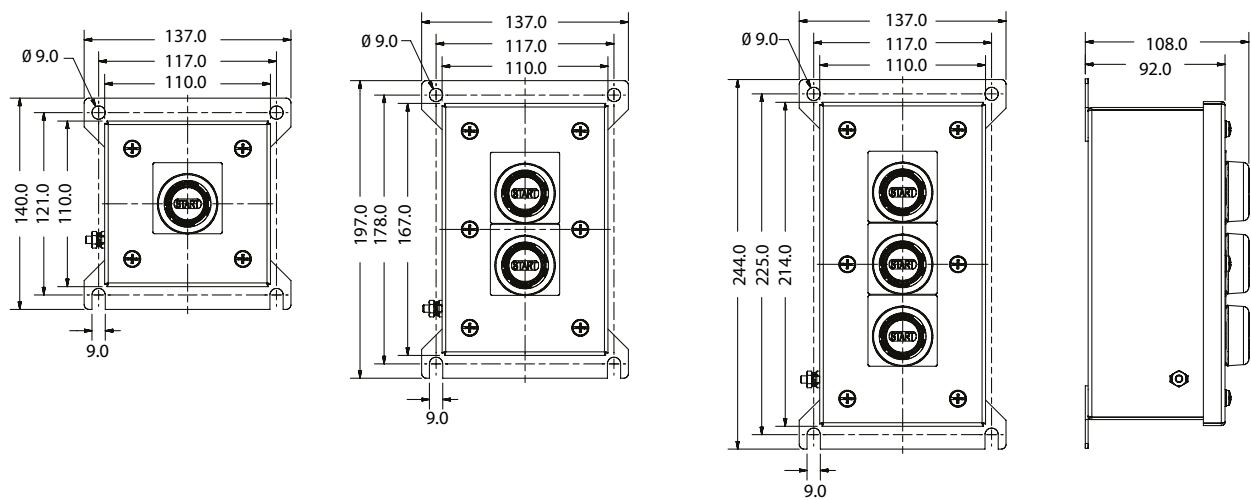
Size 2 GRP Enclosures



Maximum Quantity of Entries for Size 2A and 2C									
Entry Size	M20	M25	M32	20 mm	25 mm	32 mm	1/2" NPT	3/4" NPT	1" NPT
Face A (Top)	1	-	-	2	2	-	1	1	1
Face C (Base)	2	2	-	2	2	-	1	1	1

'M' before number denotes threaded entry. 'mm' after number denotes gland hole (unthreaded) - ECP optional

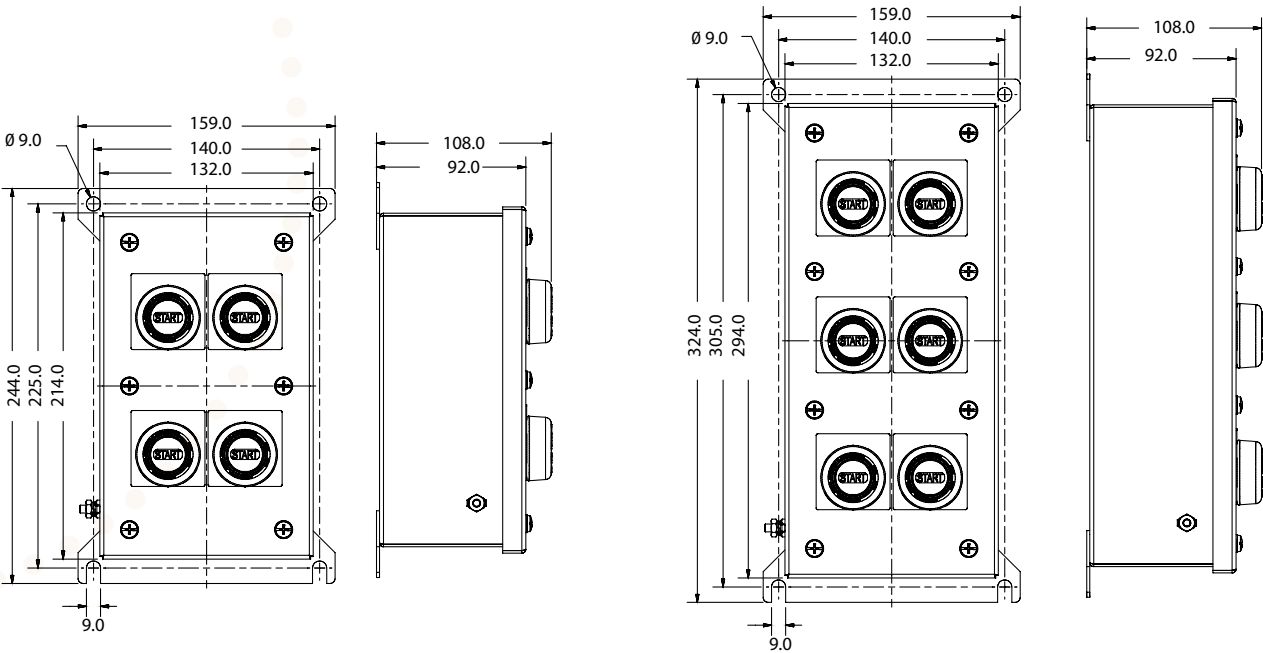
Size 1 Stainless Steel Enclosures



Maximum Quantity of Entries for Size 1 Stainless Steel Enclosures									
Entry Size	M20	M25	M32	20 mm	25 mm	32 mm	1/2" NPT	3/4" NPT	1" NPT
Face A (Top)	-	-	-	2	1	1	1	1	1
Face C (Base)	-	-	-	2	1	1	1	1	1

'M' before number denotes threaded entry. 'mm' after number denotes gland hole (unthreaded) - ECP optional

Size 2 Stainless Steel Enclosures



Maximum Quantity of Entries for Size 2 Stainless Steel Enclosures									
Entry Size	M20	M25	M32	20 mm	25 mm	32 mm	1/2" NPT	3/4" NPT	1" NPT
Face A (Top)	-	-	-	2	2	1	1	1	1
Face C (Base)	-	-	-	2	2	1	1	1	1

'M' before number denotes threaded entry. 'mm' after number denotes gland hole (unthreaded) - ECP optional

Modular Accessories

Applications

Wide range of polymeric pushbuttons, pilot lights and 2 or 3 way selector switches, for use in actuation and indication of control systems status in remote environments and maintaining operator safety with immediate action Emergency Stop systems. Modular accessories are certified components for use on control panels - (U certificate – see table below).

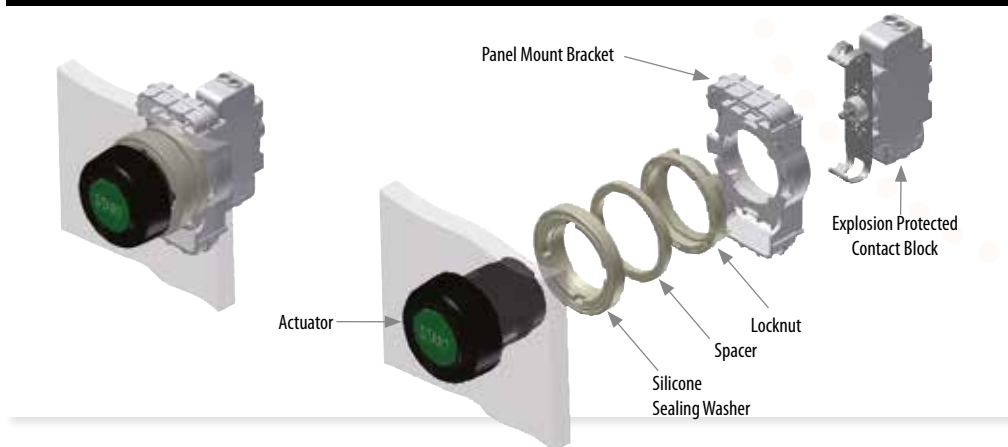
Features

- Ambient temperature operational range -50°C to +60°C
- LED indicator with 5 coloured lenses (amber, red, blue, green or clear)
- Single and double pushbuttons
- Emergency stop button option - pull or twist to release. Key release option also available.
- Moulded one piece silicone gasket on operators
- High switch current contact blocks
- LED's are suitable for multifunction voltages for both AC and DC applications ranging from 12 to 254 volts
- Contact Modules can be supplied with panel mount brackets for lid mounting
- Operators are supplied complete with IP seals and locknuts
- Modular accessories are certified components for use on control panels - (U certificate – see table below)

Global Certification


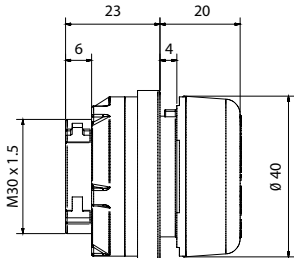

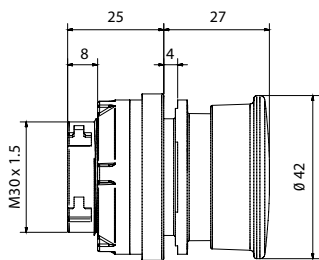

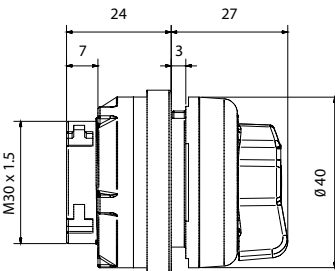

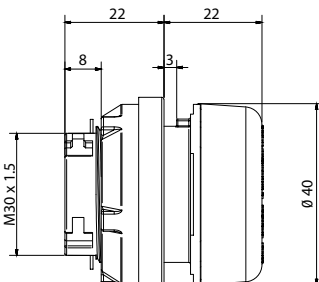

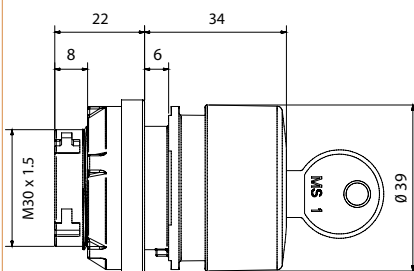
The modular accessories hold ATEX/IECEx/cULus component certification which will assist the end user in gaining third party certification from an approved body for his own assembled piece of equipment.


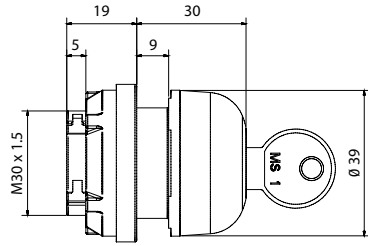

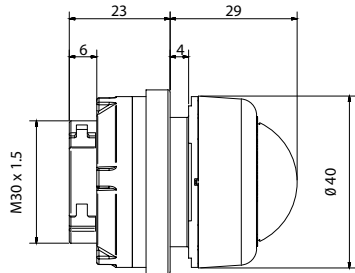

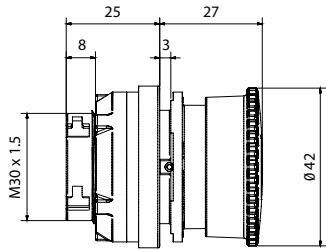

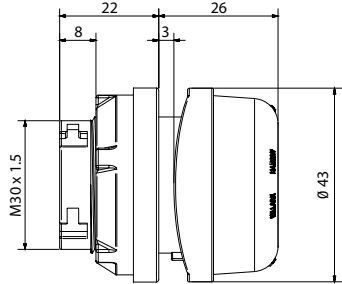

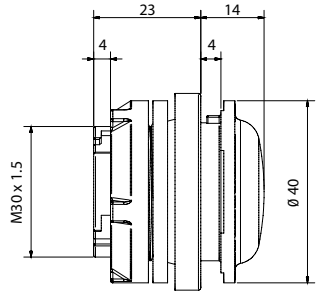
Actuator Assemblies for Panel Mount Applications



Actuator Certification

Hazcon	ATEX/IECEx	cULus
Certificates	DEMKO 14 ATEX 1400U UL 14.0104U	E12379, Vol. 1, Sec. 3
Area Classification	Suitable for use in Zone 1 and Zone 2, Gas Groups IIA, IIB and IIC	Class I, Zone 1 AEx e IIC Gb; Zone 21 Aex tb IIIC Db (US) Class I, Division 2, Groups A, B, C, D Class II, Zone 21 & 22 Class II, Division 1 Groups E, F, G (Canada only) Class II, Division 2 Groups E,F,G Class III
IP Rating	IP66	TYPE 3, 4, 4X, 12, 13
Protection Method	⊕ II 2 G Ex e IIC Gb ⊕ II 2 G Ex tb IIIC Db	AEx e IIC Gb AEx tb IIIC Db (US) Ex e IIC Gb Ex tb IIIC Db (CAN)
Construction/Test Standards	IEC 60079-0:2011; IEC 60079-31:2013; IEC 60079-7:2006-07 EN 60079-0:2012 + A11:2013 EN 60079-7:2007; EN60079-31:2014	UL 60079-0 and CAN/CSA-C22.2 No. 60079-0 UL 60079-7 and CAN/CSA-C22.2 No. 60079-7 UL 60079-31 and CAN/CSA-C22.2 No 60079-31 UL508, UL50, UL50E and CSA C22.2 No. 94.2
Material	Polymeric bodies/lenses	Polymeric bodies/lenses
Operating Temperature	-50°C to 60°C	-50°C to 60°C

Actuator Properties				
Actuator	Drawing	Description	Part Code	Additional Information
		Momentary Push Button for 2 Contact Blocks	HKHPBMMSS	Actuator supplied with 7 coloured inserts as shown on page 8
		Momentary Push Button for 3 Contact Blocks	HKHPBMMTC	Three contact version only available for din rail mounting.
		Momentary Mushroom Push Button	HKHPBMMMR HKHPBMMMG HKHPBMMMB	Available in Red, Green and Black. Please see final character in part code.
		Maintained Mushroom Push Button with Pull Release	HKHPBPMTR HKHPBPMTG HKHPBPMTB	
		2 Position Rotary Selector Switch	HKH2PSMT* (Maintained) HKH2PSMMR* (Momentary R)	* Rotary Selector Switches are available with horizontal or vertically orientated contact blocks. Please add "H" or "V" to the end of the part code to select your option.
		3 Position Rotary Selector Switch	HKH3PSMTI* (Maintained) HKH3PSMMR* (Momentary R) HKH3PSMML* (Momentary L) HKH3PSMMLR* (Momentary L & R)	
		Momentary Illuminated Push Button with LED Lamp	HKHPBILLMM	Supplied with Red, Green, Amber, Clear and Blue transparent lenses. For Din Rail mounting only (not suitable for Panel Mount applications).
		Maintained Mushroom Push Button with Key Release	HKHPBKMTMRH HKHPBKMTMRV	Available with horizontal or vertically orientated contact blocks. Please see last character for selection. Only available in Red.

Actuator Properties				
Actuator	Drawing	Description	Part Code	Additional Information
		2 Position Keyed Rotary Selector Switch	HKH2PSK*	<i>* Rotary selector switches are available with horizontal or vertically orientated contact blocks. Please add "H" or "V" to the end of the part code to select your option.</i>
		3 Position Keyed Rotary Selector Switch	HKH3PSI*	
		Lamp Module Lens Assembly	HKHPLR HKHPLG HKHPLA HKHPLC HKHPLB	<i>Available in Red, Green, Amber, Clear and Blue. Please see final character in part code.</i>
		Maintained Mushroom Push Button with Twist Release	HKHPBTMTMR	<i>Available in Red only.</i>
		Double Momentary Push Button	HKHDBLPBMMGR	<i>Actuator supplied with 7 coloured inserts as shown on page 8.</i>
		Actuator Stopping Plug	HKHCP	<i>Close up plug supplied in lid if actuator is omitted.</i>

Panel Mount Actuators

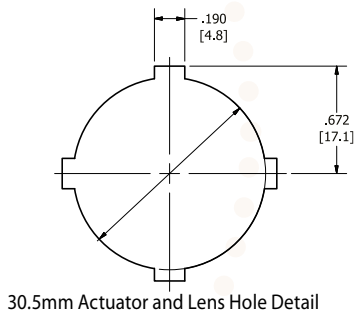
Hazcon actuators are available for installation into end user assemblies with either the Hazcon din rail assembly or the Hazcon panel mount bracket.

The Hazcon panel mount bracket has been designed to enable users to install contact modules in a vertical orientation, or a horizontal one, dependent upon the space available in the enclosure. Actuator part codes ending in 'H' or 'V' enable the user to correctly select the required actuator. The contact module(s) will either lie horizontally or vertically.

A keyway on the actuator ensures it will only fit the bracket in the correct orientation.

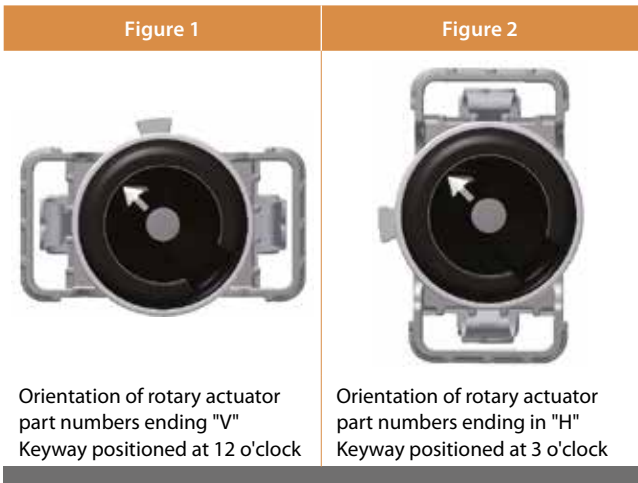
When installing other actuators such as push buttons & pilot lights the keyway must also be positioned in the same location as the rotary actuators. See Fig. 1 and Fig. 2

Actuators are intended for mounting into 30.5mm device openings in enclosure covers which have a thickness ranging between 1.02mm and 6.35mm. Intended for use with Hazcon contact modules.

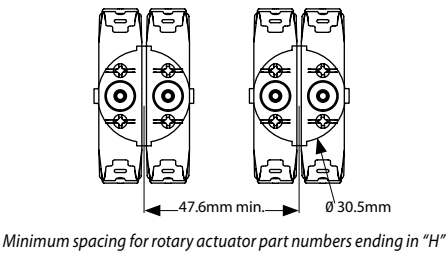
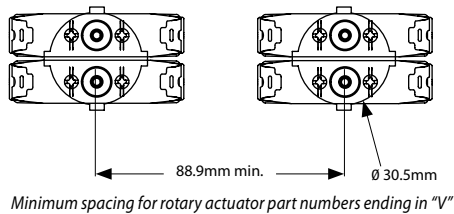






For ATEX / IECEx Applications:

Actuators and lens covers may be installed in a Group I and/or Group II, 'Ex e' increased safety enclosure with a minimum IP54 rating or an 'Ex d/ tb' flameproof/dust ignition proof enclosure with a minimum IP64 rating. The final assembly should be submitted for full equipment approval to a third party certification body.


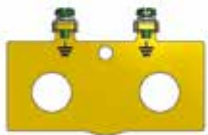


Minimum spacing is required for both horizontal and vertical mounting contact modules:






Lockout Options		
Product	Part Code	Description
	HKHPBMMDHLO	Hinged stainless steel lockout device for standard momentary pushbutton actuators in depressed position. Lockout hole size 6.60mm
	HKHPBSSMFCLO	Plastic flip cover lockout used for momentary push button actuators, selector switches and mushroom push button actuators. Lockout hole size 6.60mm
	HKHPBMBLO	Bar on chain, stainless steel lockout, used for mushroom head push button actuators, in depressed position. Can also be used to provide a shroud for emergency stop buttons to prevent accidental operation. Lockout hole size 8.80mm
	HKHPBMHLO	Hinged stainless steel lockout for mushroom push button actuators in depressed position. Lockout hole size 6.60mm

Lockout devices can be selected for installation into factory built control station. See page 7.

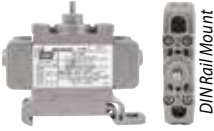
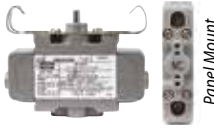


Brass Earth Continuity Plates		
Product	Entry Size/Qty	Part Code
	1 X M20	HKHGP11M20
	2 X M20	HKHGP12M20
	1 X M25	HKHGP11M25
	1 X M32	HKHGP11M32
	2 X M20	HKHGP22M20
	2 X M25	HKHGP22M25
	1 X M32	HKHGP21M32

Brass ECP can be selected for installation into factory built control station. See page 6.

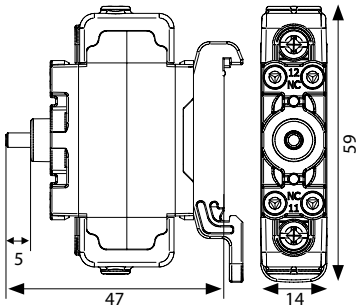
Accessories		
Product	Entry Size/Qty	Part Code
	HKHANTOOL	Use to install actuators and lamp lenses correctly
	HKHPMBRKT	To install contact blocks into panel mount applications*
	HKHCP	Cover plug

* Always select panel mount contact block/indicator (end in P)

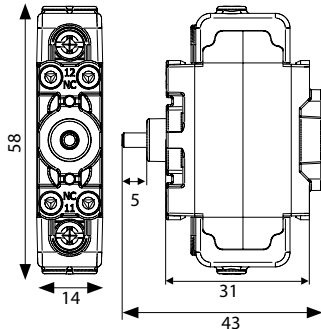
Factory Sealed Contact Block Modules

HKH1NC20D	HKH1NC20P	HKH1NO20D	HKH1NO20P
All grey marked: N.C./ (11&12)		White centre body with grey terminal covers marked: N.O./ (13&14)	
			
N/C - Normally Closed - Contact block is supplied in CLOSED position		N/O - Normally Open - Contact block is supplied in OPEN position	

DIN Rail Mount Contact Block Module



Panel Mount Contact Block Module



Features Specifications

- Hawke Hazcon contact block modules have a switching capacity of 16 Amps
- Offered as individual components, customers can choose between panel mount or din rail* mount fixing style to manufacture self build control panels
- Silver alloy contacts with gold flashing
- Contact blocks are coloured white (N/O) or grey (N/C) for ease of identification
- IEC Electrical Ratings
AC690V 16A AC-12, 50-60Hz
AC230V 16A AC-15, 50-60Hz
DC60V 5A DC-12
DC125V 1A DC-12

*Din rail mount contact block modules must be mounted on Hazcon din rail



Stainless steel terminal screw head for use with the following screwdriver types:

- Slotted
- Phillips



Wire Range for 1 or 2 conductors as listed:

- 0.5 to 2.5mm² (Solid & Stranded)
- 4.0mm² (Stranded)
- Wire Strip 10mm
- Terminal Torque 1.7 Nm

When terminal covers are installed there are no accessible live parts, so contact blocks and pilot lights are IP20 touch safe.

Contact Block Certification

Hazcon	ATEX/IECEX	cULus
Certificates	DEMKO 12 ATEX 1202251U IECEX UL 12.0033U	UL File E12379, Volume 3, Section 1
Area Classification	Suitable for use in Zone 1 and Zone 2, Gas Groups IIA, IIB and IIC	Suitable for use in Zone 1 and Zone 2, Gas Groups IIA, IIB and IIC; Class I, Division 2, Groups A, B, C, D
Protection Method	⊕ I M 2 Ex de I Mb ⊕ II 2 G Ex de IIC Gb	AEx de IIC T4 (US) Ex de IIC T4 X (CAN)
Construction/Test Standards	IEC 60079-0:2011; IEC 60079-1:2007-04; IEC 60079-7:2006-07 EN 60079-0:2012 + A11;2013 EN 60079-1:2007; EN 60079-7:2007	UL 60079-0 and CAN/CSA-C22.2 No. 60079-0:11 UL 60079-1 and CAN/CSA-C22.2 No. 60079-1:11 UL 60079-7 and CAN/CSA C22.2 No. 60079-7:12 UL 508 and CSA C22.2 No. 14-10
Material	Polymeric housing Brass alloy terminals Stainless Steel plunger and bushings	Polymeric housing Brass alloy terminals Stainless Steel plunger and bushings
Operating Temperature	-50°C to 60°C	-50°C to 60°C

Factory Sealed Indicator Lamp Modules

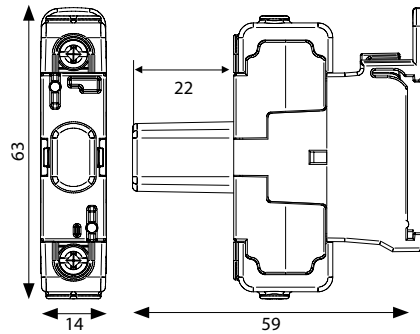
HKHPLD



HKHPLP



LED Rail Mounted Indicator Lamp Module



Features Specifications

Hazcon Indicator Lamp modules are available for illuminated indication. High ambient temperature range make the module ideally suited for use in harsh or hazardous areas. Available as din rail or panel mount*.

Wire Range for 1 or 2 conductors as listed:

- 0.5 to 2.5mm² (Solid & Stranded)
- 4.0mm² (Stranded)
- Wire Strip 10mm
- Terminal Torque 1.7 Nm

- IEC Electrical Ratings
0.6 Watts
12-254 Vac/Vdc
50-60Hz
Approx LED life 50,000 hours

* Din rail mount lamp modules must be mounted on Hazcon din rail



Coupling Indicator Lamp modules with Contact Blocks allows for the use of an illuminated momentary push button, allowing both device operation and status indication.

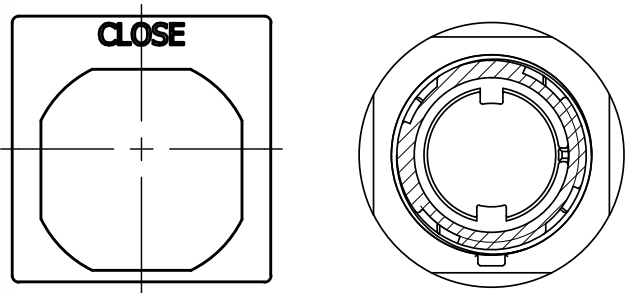
Push buttons are available in a choice of colours. (red, blue, amber, green and clear)

Pilot Light Certification

Hazcon	ATEX/IECEX	cULus
Certificates	DEMKO 14 ATEX 1337U UL 14.0047U	E12379, Volume 1, Section 2
Area Classification	Suitable for use in Zone 1 and Zone 2, Gas Groups IIA, IIB and IIC	Class I, Zone 1 and 2 Class I, Division 2, Groups A, B, C, D
Protection Method	⊕ I M 2 Ex de I Mb ⊕ II 2 G Ex de IIC Gb	AEx de IIC T4 (US) Ex de IIC T5 X (CAN)
Construction/Test Standards	IEC 60079-0:2011; IEC 60079-1:2007-04; IEC 60079-7:2006-07 EN 60079-0:2012 + A11;2013 EN 60079-1:2007; EN 60079-7:2007	UL 60079-0 and CAN/CSA-C22.2 No. 60079-0:11 UL 60079-1 and CAN/CSA-C22.2 No. 60079-1:11 UL 60079-7 and CAN/CSA C22.2 No. 60079-7:12 UL 508 and CSA C22.2 No. 14-10
Material	Polymeric flameproof housing; metallic terminals	Polymeric flameproof housing; metallic terminals
Operating Temperature	-50°C to 60°C	-50°C to 60°C

LEGEND PLATE APPLICATION

Custom made labels or tag numbers can be affixed to the indented part of the Hazcon lid. Label size 16mm by 68.6mm



Actuator Legend Plates

Hawke Hazcon actuators can be fitted with additional legend plates to indicate the actuator's operating function. The Hazcon legend plate is designed to fit in-between the actuator and the enclosure lid.

Please Note: When legend plates are installed on Hazcon GRP enclosures, the legend must be installed so that the four flat sides align with the four flat areas of the lid recess. Failure to do so may impair the controls stations ingress protection and switching operation. Only Hawke Hazcon legend plates are permitted for use.

Legend Plate Ordering

Standard Legends

Legend plates are available with several standard options.

To order a standard legend insert the number/character into the highlighted section of the part code.

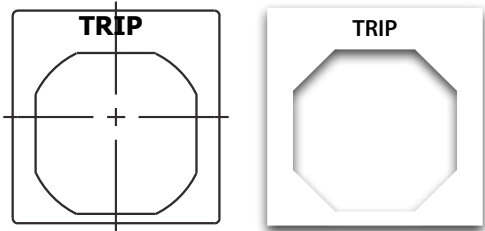
Example: HKH1ANDRP15**A**-1

A denotes selection of legend.

A - START

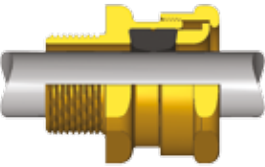
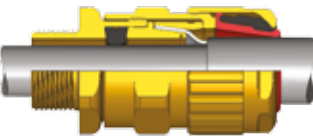

Custom Legend

Custom Legends of up to 18 characters can also be supplied, by inserting '1' in the part code and providing a text description of your required legend.



Title Codes for Ordering							
Code	Legend	Code	Legend	Code	Legend	Code	Legend
A	START	J	OPEN	S	OFF-ON	0	BLANK
B	STOP	K	CLOSE	T	UP-DOWN	1	SPECIFY CUSTOM MARKING
C	POWER ON	L	FORWARD	U	RAISE-LOWER	2	RAISE-OFF-LOWER
D	POWER OFF	M	REVERSE	V	SLOW-FAST	3	JOG-OFF-RUN
E	EMERGENCY STOP	N	RESET	W	FWD-REV	4	RUN-OFF-JOG
F	PUSH TO TEST	P	UP	X	HAND-AUTO	5	FWD-OFF-REV
G	RAISE	Q	DOWN	Y	OPEN-CLOSE	9	HAND-OFF-AUTO
H	LOWER	R	ON-OFF	Z	OFF-REMOTE		

Single/Double Compression Cable Glands - ATEX/IECEx

Gland	Part Number	Suffix for Material	Part Code Selector	Cable Type	Outer Sheath		Inner Sheath	
					Min (mm)	Max (mm)	Min (mm)	Max (mm)
501/421 Single Compression 	501/421/Os/M20	/B	H1	Non-armoured elastomer or plastic insulated cable	3.2	8	Not Applicable	Not Applicable
	501/421/O/M20	/B	H2		6.5	11.9		
	501/421/A/M20	/B	H3		10.0	14.3		
	501/421/B/M25	/B	H4		13.0	20.2		
	501/421/C/M32	/B	H9		19.5	26.5		
	501/421/Os/M20	/NP	H5		3.2	8.0		
	501/421/O/M20	/NP	H6		6.5	11.9		
	501/421/A/M20	/NP	H7		10.0	14.3		
	501/421/B/M25	/NP	H8		13.0	20.2		
	501/421/C/M32	/NP	HE		19.5	26.5		
	501/421/Os/M20	/S	HA		3.2	8.0		
	501/421/O/M20	/S	HB		6.5	11.9		
	501/421/A/M20	/S	HC		10.0	14.3		
	501/421/B/M25	/S	HD		13.0	20.2		
	501/421/C/M32	/S	HF		19.5	26.5		
501/453/RAC Double Compression 	501/453/RAC/Os/M20	/B	J1	Single wire armour/wire braid/steel tape armour/elastomer and plastic insulated cable	5.5	12.0	3.2	8.0
	501/453/RAC/O/M20	/B	J2		9.5	16.0	6.5	11.9
	501/453/RAC/A/M20	/B	J3		12.5	20.5	10.0	14.3
	501/453/RAC/B/M25	/B	J4		16.9	26.0	13.0	20.2
	501/453/RAC/C/M32	/B	J9		22.0	33.0	19.5	26.5
	501/453/RAC/Os/M20	/NP	J5		5.5	12.0	3.2	8.0
	501/453/RAC/O/M20	/NP	J6		9.5	16.0	6.5	11.9
	501/453/RAC/A/M20	/NP	J7		12.5	20.5	10.0	14.3
	501/453/RAC/B/M25	/NP	J8		16.9	26.0	13.0	20.2
	501/453/RAC/C/M32	/NP	JE		22.0	33.0	19.5	26.5
	501/453/RAC/Os/M20	/S	JA		5.5	12.0	3.2	8.0
	501/453/RAC/O/M20	/S	JB		9.5	16.0	6.5	11.9
	501/453/RAC/A/M20	/S	JC		12.5	20.5	10.0	14.3
	501/453/RAC/B/M25	/S	JD		16.9	26.0	13.0	20.2
	501/453/RAC/C/M32	/S	JF		22.0	33.0	19.5	26.5
501/453/UNIV Double Compression for soft bedded cables 	501/453/UNIV/Os/M20	/B	U1	Single wire armour/wire braid/steel tape armour/elastomer and plastic insulated cable. For particular use with cables that exhibit 'cold flow' characteristics.	5.5	12.0	3.5	8.1
	501/453/UNIV/O/M20	/B	U2		9.5	16.0	6.5	11.4
	501/453/UNIV/A/M20	/B	U3		12.5	20.5	8.4	14.3
	501/453/UNIV/B/M25	/B	U4		16.9	26.0	11.1	19.7
	501/453/UNIV/C/M32	/B	U9		22.0	33.0	17.6	26.5
	501/453/UNIV/Os/M20	/NP	U5		5.5	12.0	3.5	8.1
	501/453/UNIV/O/M20	/NP	U6		9.5	16.0	6.5	11.4
	501/453/UNIV/A/M20	/NP	U7		12.5	20.5	8.4	14.3
	501/453/UNIV/B/M25	/NP	U8		16.9	26.0	11.1	19.7
	501/453/UNIV/C/M32	/NP	UE		22.0	33.0	17.6	26.5
	501/453/UNIV/Os/M20	/S	UA		5.5	12.0	3.5	8.1
	501/453/UNIV/O/M20	/S	UB		9.5	16.0	6.5	11.4
	501/453/UNIV/A/M20	/S	UC		12.5	20.5	8.4	14.3
	501/453/UNIV/B/M25	/S	UD		16.9	26.0	11.1	19.7
	501/453/UNIV/C/M32	/S	UF		22.0	33.0	17.6	26.5

Cable Gland Material Codes: **B** Brass **NP** Nickel Plated Brass **S** Stainless SteelFor further cable gland information go to www.ewhake.com

ORDER EXAMPLE

SERIES	ENCLOSURE	MATERIAL	MODULE MOUNTING	ENTRY	ECP	ACTUATOR	MODULE TYPE	LEGEND	ACTUATOR ACCESSORY	ENTRY ACCESSORY	INT/EXT	CERTIFICATION
HKH	1A	N	D	A	E	M7	5	E		J2		-1

White box must be populated. Grey indicates optional.



HKH1ANDAEM75EJ2-1
Single Gang E-Stop - 1xM20
2x N/C Contact Blocks
RAC M20 Cable Gland



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