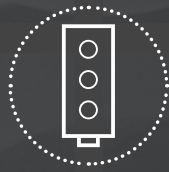


## CONTROL STATIONS

..... *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](http://www.hubbell.com)

[www.harshandhazardous.com](http://www.harshandhazardous.com)

## About Us

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 utilize long life materials allowing ease of installation and a product that you can depend on for years to come.

The company who developed the very first cable gland continues to grow and develop superior cable termination solutions including our full range of cable glands, accessories, cable connectors, junction boxes and now in 2016 our full range of Hazcon control stations.



## Versatility – Reliability - Ease of Use

## 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.

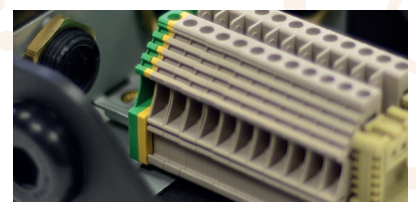
Supported worldwide by an unrivalled network of approved agents and distributors we guarantee easy access to our full product range globally.

## 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
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- 6 Part Number Logic
- 8 Control Stations
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- 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 stainless steel or grade 316L or high impact resistant Glass Reinforced Anti-static Polymer
- 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 12V 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
<b>Certificates</b>	DEMKO 15 ATEX 1405X IECEx UL 15.0054X	UL File E53360
<b>Area Classification</b>	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
<b>IP Rating</b>	IP66	TYPE 3, 4, 4X,12,13
<b>Protection Method</b>	⊕ II 2 G Ex de IIC T6/T5/T4 Gb ⊕ 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 oC...T135 °C IP66 (U.S.) Ex de IIC Gb T6...T4 Ex tb IIIC Db T85 oC...T135 °C IP66 (CAN)
<b>Construction/Test Standards</b>	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
<b>Material</b>	GRP PA6 Glass Reinforced Antistatic Material. Grade 316L Stainless Steel	GRP PA6 Glass Reinforced Antistatic Material. Grade 316L Stainless Steel
<b>Operating Temperature</b>	-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

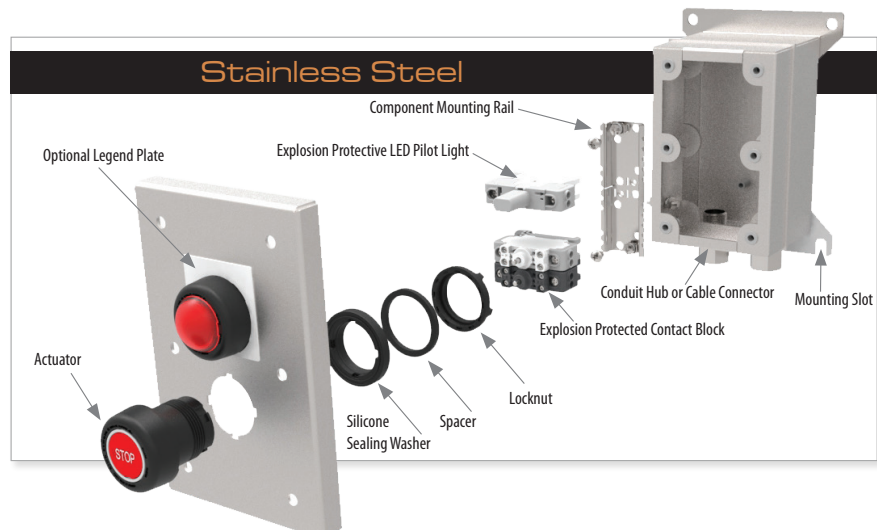
GRP enclosures are easily mounted using just 2 fixing points. The stainless steel enclosure has 4 fixing points, 2 of which are slotted. The enclosures can all be mounted to structures without removing the enclosure lid thus eliminating unnecessary ingress of water, dust and insects.

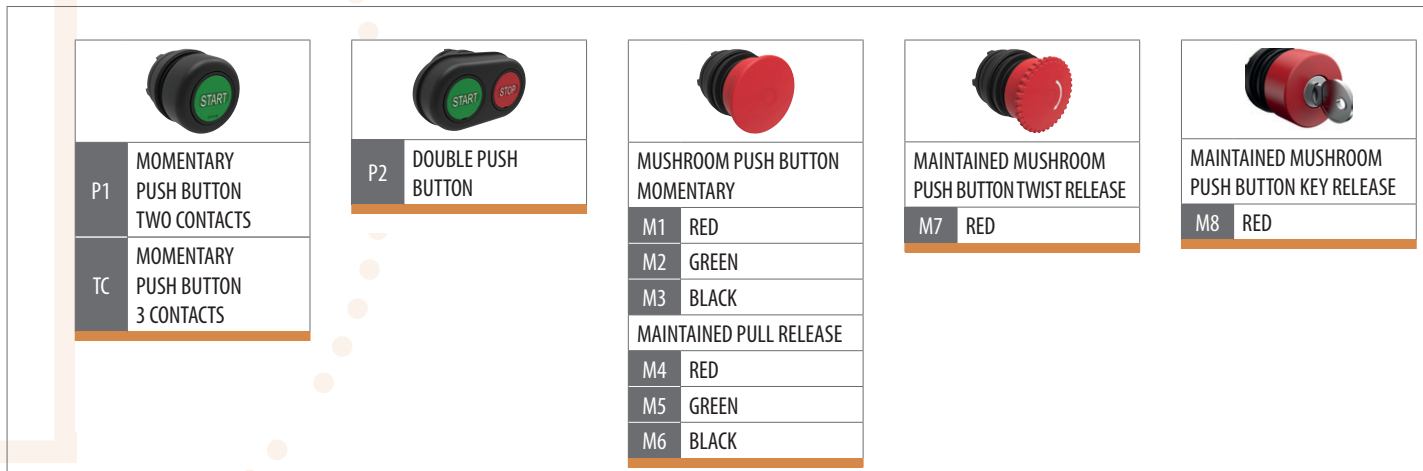
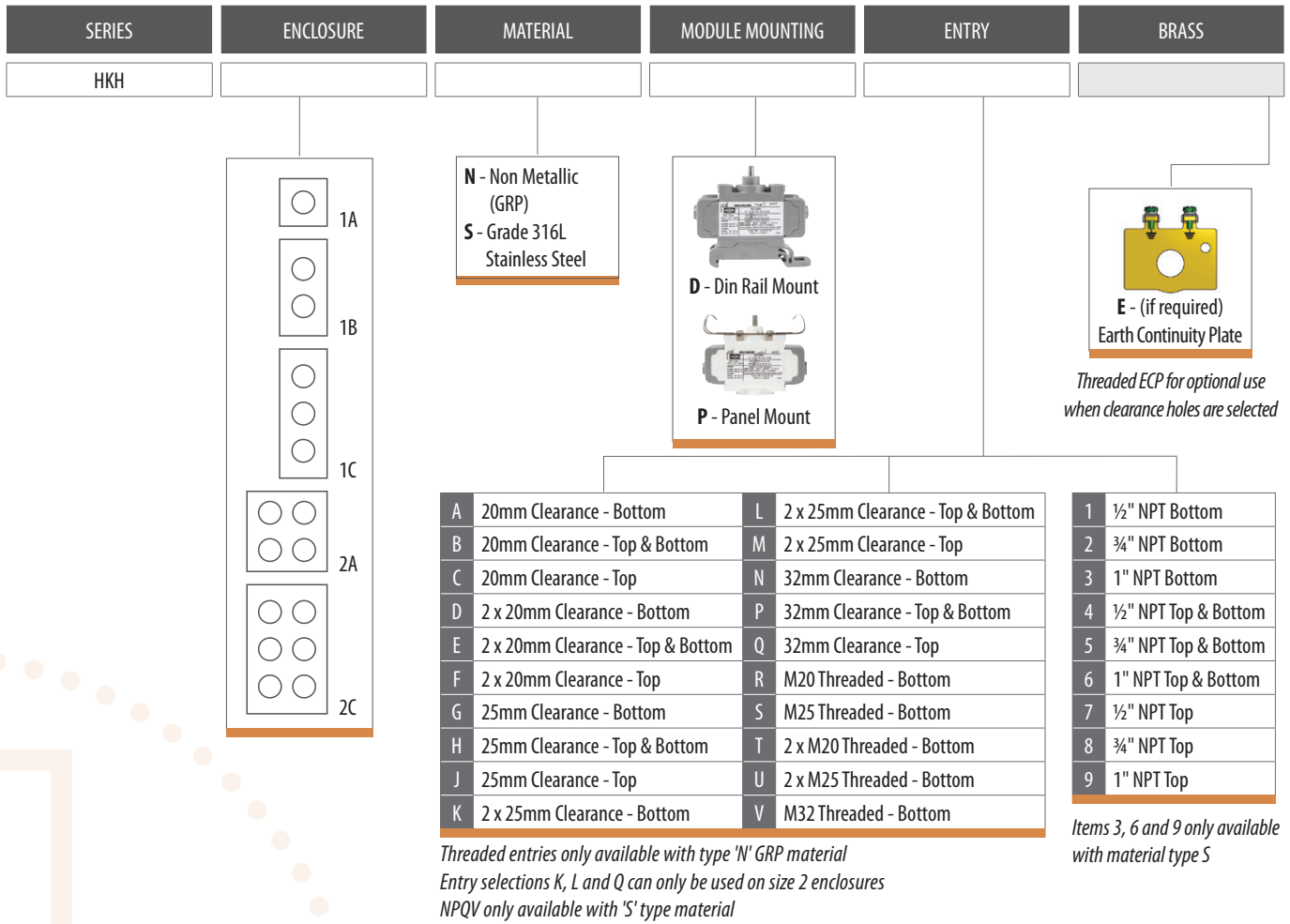
### Cable Entries

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.


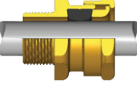










Product Drawings


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  
**HKH SERIES CONTROL STATION**  
 Ser No. 16W1234567  
 CAT. NO. **HKHMOD800005**  
 COUNTRY / DATE CODE **UK/2016** [WWW.HARSHANDHAZARDOUS.COM](http://WWW.HARSHANDHAZARDOUS.COM)

ACTUATOR/INDICATOR	MODULE TYPE	LEGEND	ACTUATOR ACCESSORY	ENTRY ACCESSORY	INT/EXT EARTH	CERTIFICATION																								
						-1																								
	<table border="1"> <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>	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		 <p>L1 STAINLESS STEEL LOCKOUT DEPRESSED PUSHBUTTON</p>	 <p>H* 421 CABLE GLAND</p>	 <p>Optional internal/external earth tag Can be used with or without ECP</p>	<table border="1"> <tr><td>-1</td><td>IECEx/ATEX VERSION (default) EAC INMETRO</td></tr> <tr><td>-2</td><td>cULus ONLY VERSION</td></tr> </table> <p>cULus AND ATEX/IECEx labelling available upon request</p>	-1	IECEx/ATEX VERSION (default) EAC INMETRO	-2	cULus ONLY VERSION
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																													
-1	IECEx/ATEX VERSION (default) EAC INMETRO																													
-2	cULus ONLY VERSION																													
		 <p>L2 PLASTIC COVER LOCKOUT PUSHBUTTON/MUSHROOM/SELECTOR SWITCH</p>	 <p>J* 453/RAC CABLE GLAND</p>																											
		 <p>L3 STAINLESS STEEL BAR PUSHBUTTON LOCKOUT/MUSHROOM DEPRESSED</p>	 <p>U* 453 UNIVERSAL CABLE GLAND <i>See page 23 for gland details</i></p>																											
		 <p>L4 STAINLESS STEEL HINGED LOCKOUT PUSHBUTTON LOCKOUT/MUSHROOM DEPRESSED</p>																												
	<p>Standard operator legends or customer specific marking legends available.</p> <p>FOR DETAILS SEE PAGE 22</p>																													




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 box must be populated. Grey indicates optional.  
For multiple gang control stations repeat highlighted orange entries.




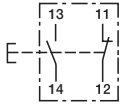
**HKH1ANDRM75E-1**  
Single Gang E-Stop - 1xM20  
2x N/C Contact Blocks

International Approvals

Ex  
EAC  
IECEx  
INMETRO  
CE

### 1A - Momentary Single Push Button




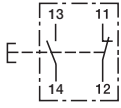


Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
	HKH1ANDAP11-1	HKH1ANDRP11-1	HKH1ASDAP11-1

*Supplied with 7 coloured and marked disc inserts*


### 1A - Momentary Single Push Button - Mushroom

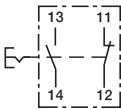




Contact Block	GRP		Stainless steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED Stop	HKH1ANDAM11B-1	HKH1ANDRM11B-1	HKH1ASDAM11B-1
GREEN Start	HKH1ANDAM21A-1	HKH1ANDRM21A-1	HKH1ASDAM21A-1
BLACK Blank	HKH1ANDAM310-1	HKH1ANDRM311-1	HKH1ASDAM310-1


### 1A - Maintained Single Push Pull Button - Mushroom

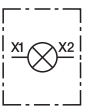




Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED Stop	HKH1ANDAM41B-1	HKH1ANDRM41B-1	HKH1ASDAM41B-1
GREEN Start	HKH1ANDAM51A-1	HKH1ANDRM51A-1	HKH1ASDAM51A-1
BLACK Blank	HKH1ANDAM610-1	HKH1ANDRM611-1	HKH1ASDAM610-1


### 1A - Single Indicator Light

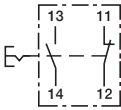




Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamp	M20 Clearance	M20 Threaded	M20 Clearance
RED LED	HKH1ANDALRL0-1	HKH1ANDRLRL0-1	HKH1ASDALRL0-1
GREEN LED	HKH1ANDALGL0-1	HKH1ANDRLGL0-1	HKH1ASDALGL0-1
AMBER LED	HKH1ANDALAL0-1	HKH1ANDRLAL0-1	HKH1ASDALAL0-1
CLEAR LED	HKH1ANDALCL0-1	HKH1ANDRLCL0-1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


### 1A - Maintained Mushroom Head E-Stop

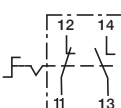




Contact Block	GRP		Stainless Steel
1 N.O/1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
RED E-STOP Pull Release	HKH1ANDAM41E-1	HKH1ANDRM41E-1	HKH1ASDAM41E-1
RED E-STOP Twist Release	HKH1ANDAM71E-1	HKH1ANDRM71E-1	HKH1ASDAM71E-1

### 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

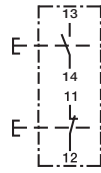
Standard configuration control stations not supplied with ECP. Entry holes on bottom face.

#### DISC INSERTS *Supplied with push button control stations*





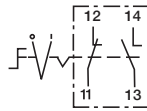
1A - Double Momentary Push Button 1 N.O. Start / 1 N.C Stop



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

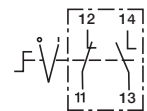


1A - Maintained 2-Position Selector Switch



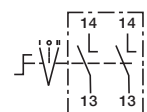
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
OFF/ON LEGEND	HKH1ANDAS11S-1	HKH1ANDRS11S-1	HKH1ASDAS11S-1

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



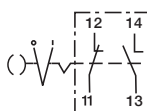
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
BLANK LEGEND	HKH1ANDAS210-1	HKH1ANDRS210-1	HKH1ASDAS210-1

1A - 3 Position Selector Switch



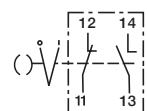
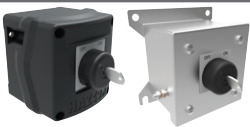
Contact Block	GRP		Stainless Steel
2 N.O	M20 Clearance	M20 Threaded	M20 Clearance
3 Position Maintained (Hand-Off-Auto)	HKH1ANDAS349-1	HKH1ANDRS349-1	HKH1ASDAS349-1
Maintained Centre - Spring L+R (Blank)	HKH1ANDAS440-1	HKH1ANDRS440-1	HKH1ASDAS440-1
2 Position Maintained - Spring R (Blank)	HKH1ANDAS540-1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

1A - Maintained 2-Position Keyed Selector Switch



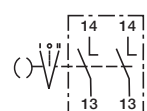
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 Clearance	M20 Threaded	M20 Clearance
OFF/ON LEGEND	HKH1ANDAK11S-1	HKH1ANDRK11S-1	HKH1ASDAK11S-1

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

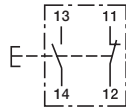
International Approvals







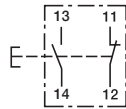
### 1B - Momentary Single Push Button



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

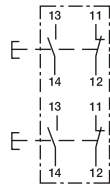
Supplied with 7 coloured and marked disc inserts

### 1B - Momentary Single Push Button - Mushroom



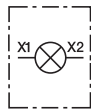
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED Stop	HKH1BNDAM11B-1	HKH1BNDRM11B-1	HKH1BSDAM11B-1
GREEN Start	HKH1BNDAM21A-1	HKH1BNDRM21A-1	HKH1BSDAM21A-1
BLACK Blank	HKH1BNDAM310-1	HKH1BNDRM311-1	HKH1BSDAM310-1

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



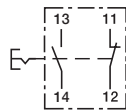
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank	HKH1BNDAP11AP11-1	HKH1BNDRP11AP11-1	HKH1BSDAP11AP11-1

### 1B - Single Indicator Light



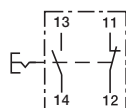
Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED LED	HKH1BNDALRL0-1	HKH1BNDRRL0-1	HKH1BSDALRL0-1
GREEN LED	HKH1BNDALGL0-1	HKH1BNDRGL0-1	HKH1BSDALGL0-1
AMBER LED	HKH1BNDALAL0-1	HKH1BNDRAL0-1	HKH1BSDALAL0-1
CLEAR LED	HKH1BNDALCL0-1	HKH1BNDRCL0-1	HKH1BSDALCL0-1
BLUE LED	HKH1BNDALBL0-1	HKH1BNDRBL0-1	HKH1BSDALBL0-1

### 1B - Maintained Mushroom Head E-Stop



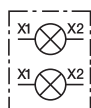
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED E-Stop - Pull Release	HKH1BNDAM41E-1	HKH1BNDRM41E-1	HKH1BSDAM41E-1
RED E-Stop - Twist Release	HKH1BNDAM71E-1	HKH1BNDRM71E-1	HKH1BSDAM71E-1

### 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

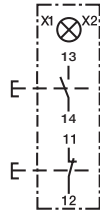
### 1B - Double Indicator Light



Description	GRP		Stainless Steel
12V-254V AC/DC Indicator Lamps	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
RED/GREEN	HKH1BNDALRL0LGL0-1	HKH1BNDRRL0LGL0-1	HKH1BSDALRL0LGL0-1
RED/RED	HKH1BNDALRL0LRL0-1	HKH1BNDRRL0LRL0-1	HKH1BSDALRL0LRL0-1
GREEN/GREEN	HKH1BNDALGL0LGL0-1	HKH1BNDRGL0LGL0-1	HKH1BSDALGL0LGL0-1

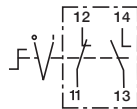


1B - Double Momentary Push Button 1 N.O. Start / 1 N.C Stop & Indicator Light



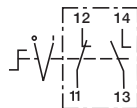
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C. 12V-254V AC/DC Red Indicator Lamp	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
GREEN: Start/(I)/Blank RED: Stop/(O)/Blank Red Indicator Lamp	HKH1BNDALRL0P21-1	HKH1BNDRLRL0P21-1	HKH1BSDALRL0P21-1

1B - Maintained 2-Position Selector Switch



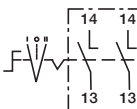
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
OFF/ON LEGEND	HKH1BNDAS11S-1	HKH1BNDRS11S-1	HKH1BSDAS11S-1

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



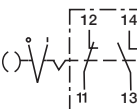
Description	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
BLANK LEGEND	HKH1BNDAS210-1	HKH1BNDRS210-1	HKH1BSDAS210-1

1B - 3 Position Selector Switch



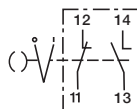
Contact Block	GRP		Stainless Steel
2 N.O	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
3 Position Maintained (Hand-Off-Auto)	HKH1BNDAS349-1	HKH1BNDRS349-1	HKH1BSDAS349-1
Maintained Centre - Spring L+R (Blank)	HKH1BNDAS440-1	HKH1BNDRS440-1	HKH1BSDAS440-1
2 Position Maintained - Spring R (Blank)	HKH1BNDAS540-1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

1B - Maintained 2-Position Keyed Selector Switch



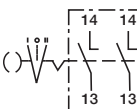
Contact Block	GRP		Stainless Steel
1 N.O./1 N.C	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
OFF/ON LEGEND	HKH1BNDAK11S-1	HKH1BNDRK11S-1	HKH1BSDAK11S-1

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


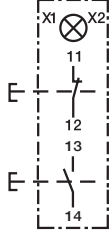
1B - 3 Position Keyed Selector Switch




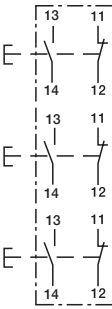
Contact Block	Non GRP		Stainless Steel
2 N.O	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
3 Position Maintained (Hand-Off-Auto)	HKH1BNDAK349-1	HKH1BNDRK349-1	HKH1BSDAK349-1
Maintained Centre - Spring L+R (Blank)	HKH1BNDAK440-1	HKH1BNDRK440-1	HKH1BSDAK440-1
2 Position Maintained - Spring R (Blank)	HKH1BNDAK540-1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

International Approvals  
 EAC  
 IECEx  
 INMETRO  
 CE


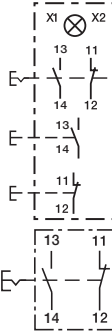
**1C - Red Indicator Light & Two Momentary Push Buttons**

		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  GREEN: Start/(I)/Blank RED: Stop/(O)/Blank BLACK: Blank	M20 CLEARANCE	M20 THREADED	M20 CLEARANCE
		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.

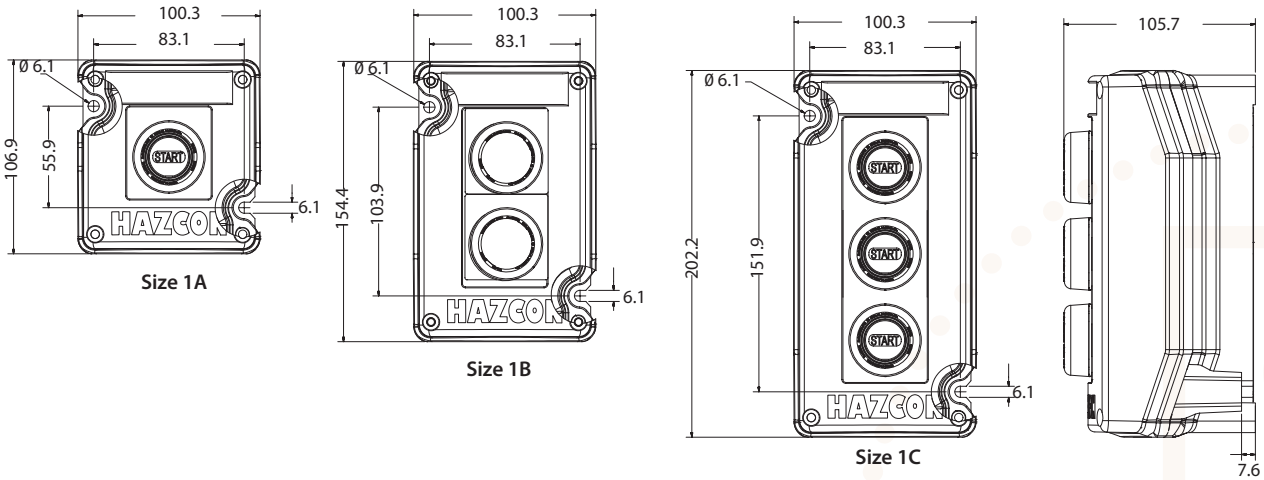
**Voltmeters 72mm**

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





**Size 1 GRP Enclosures**

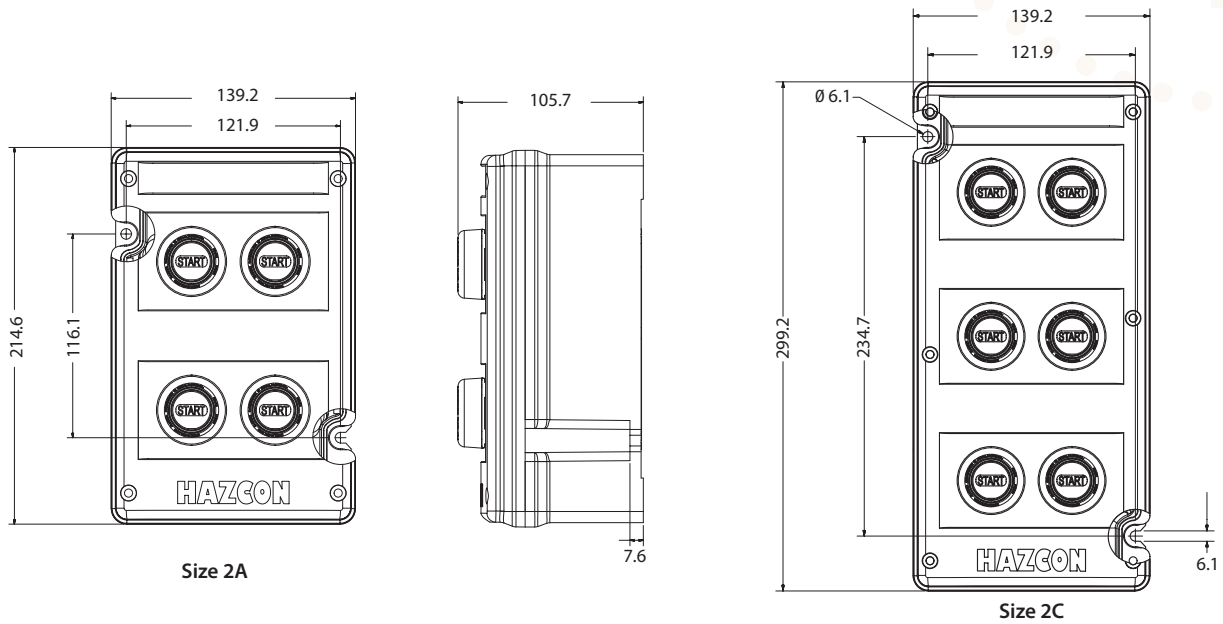


Note:- Mounting hole dimensions moulded into enclosure base.

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	1
Face C (Base)	2	1	-	2	1	1	1	1	1

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

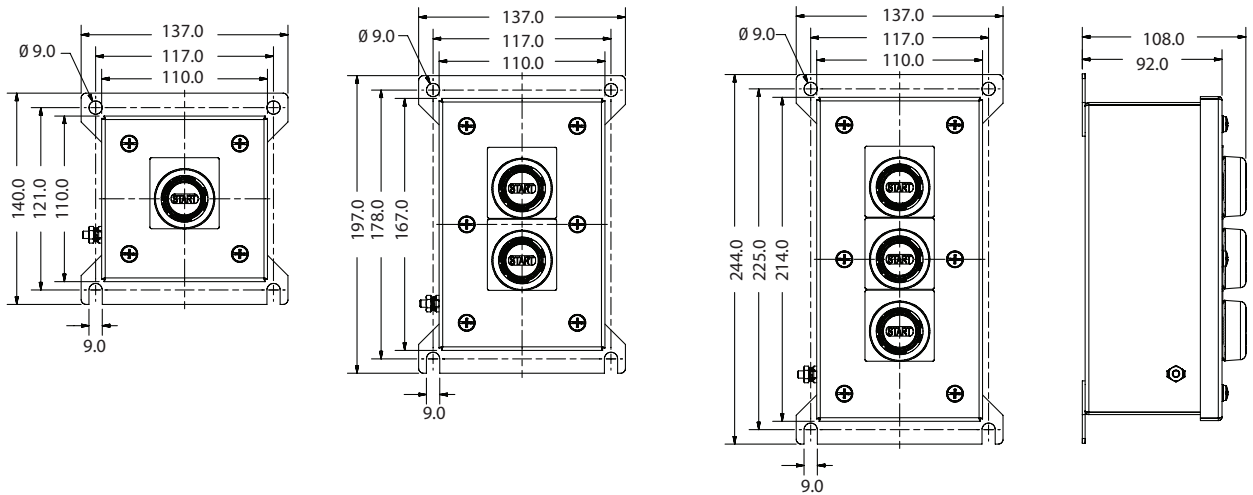
**Size 2 GRP Enclosures**



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	1
Face C (Base)	2*	2*	1	2*	2*	1	1	1	1

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

## Size 1 Stainless Steel Enclosures

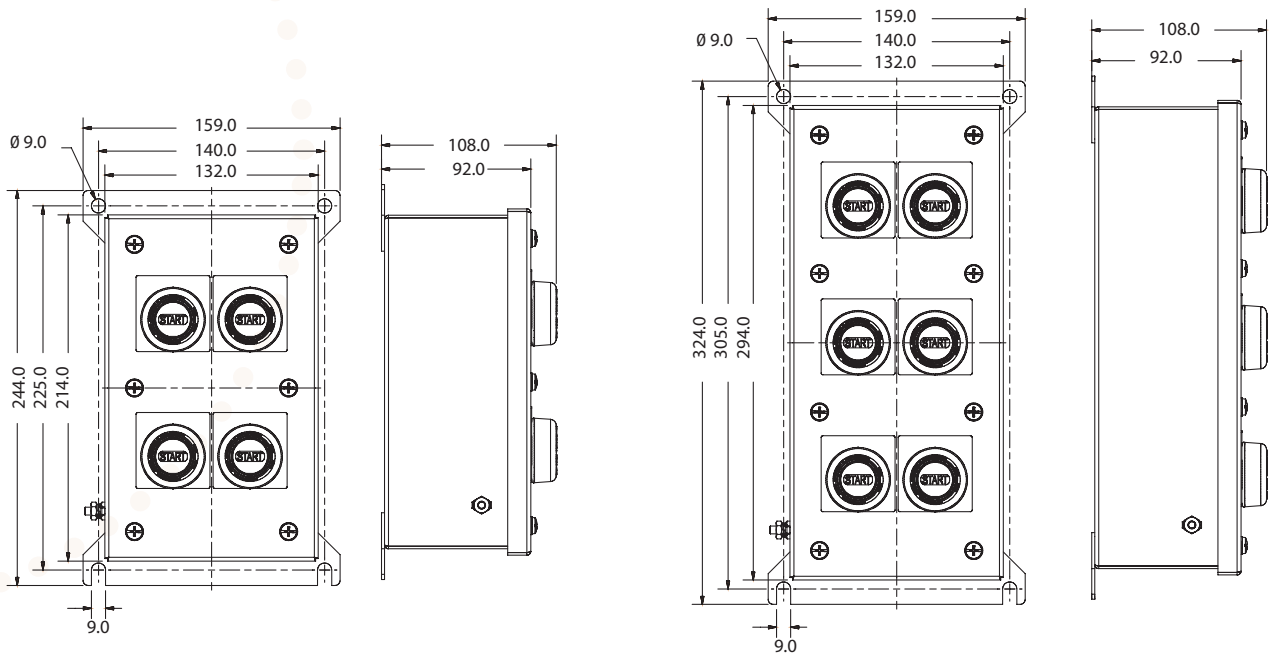


Maximum Quantity of Entries for Size 1 Stainless Steel Enclosures

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

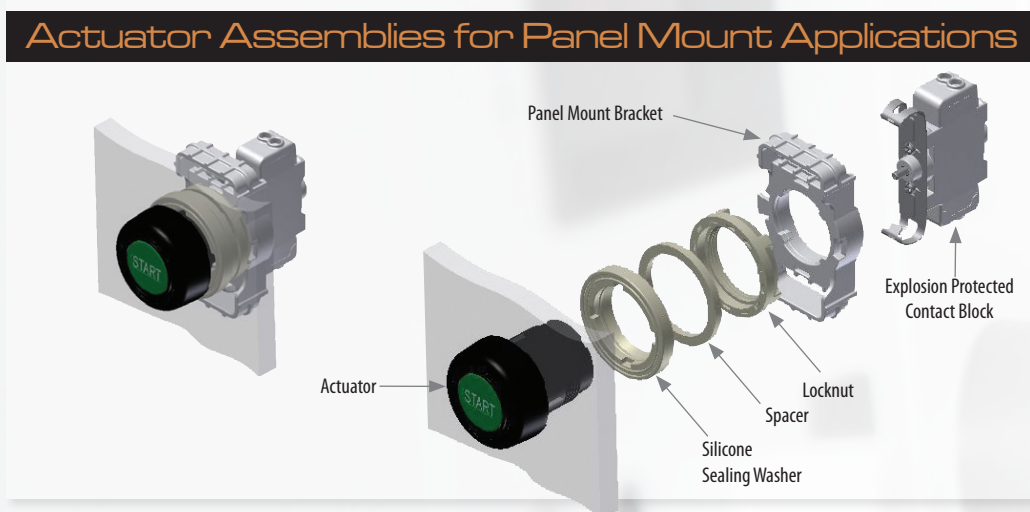
Entry Size	M20	M25	M32	20 mm	25 mm	32 mm	1/2" NPT	3/4" NPT	1" NPT
Face A (Top)	-	-	-	2	2	1	1	1	1
Face C (Base)	-	-	-	2	2	1	1	1	1

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

# CONTROL STATION MODULAR ACCESSORIES


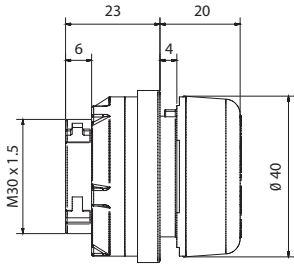

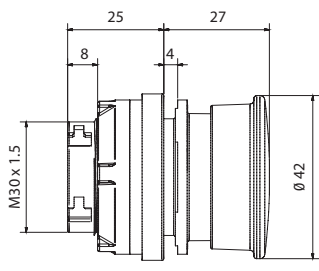

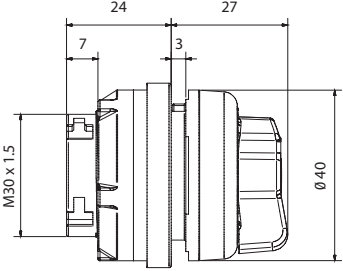

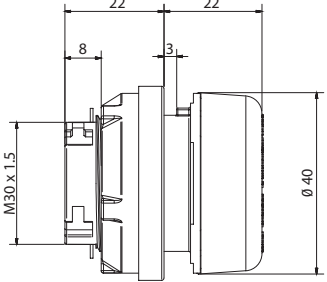

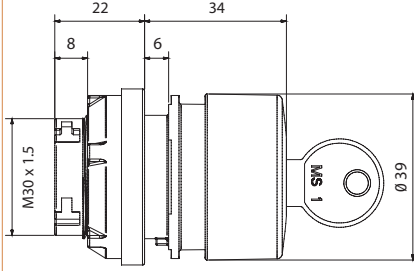
All the Hawke Hazcon Control Station Modular Accessories are certified as individual components and can be supplied to enable customers to build their own control panels. The control modules have ATEX / IECEx/cULus component certification which will assist the end user gaining his own equipment certificate from a Third Party certification body for final assembly.

Operators come complete with IP seals and locknuts. Contact Modules can be supplied with panel mount brackets for lid mounting. Products are supplied with component (U) certification as below.


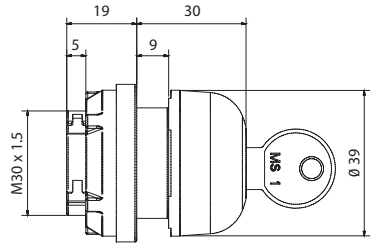

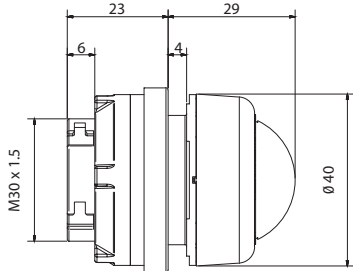

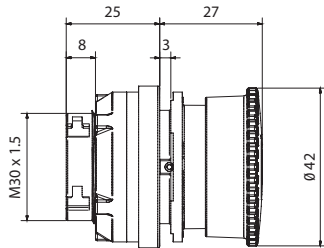

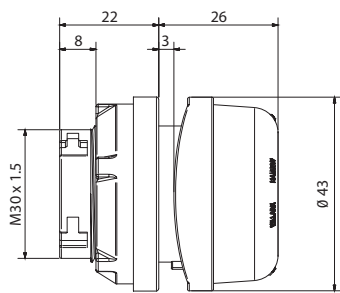

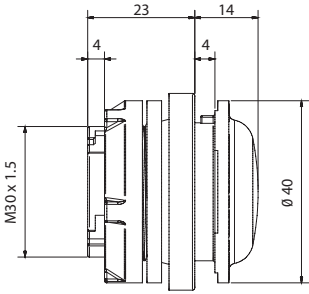


## Actuator Certification

Hazcon	ATEX/IECEX	cULus
<b>Certificates</b>	DEMKO 14 ATEX 1400U UL 14.0104U	E12379, Vol. 1, Sec. 3
<b>Area Classification</b>	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
<b>IP Rating</b>	IP66	NEMA TYPE 3, 4, 4X,12,13
<b>Protection Method</b>	⊕ 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)
<b>Construction/Test Standards</b>	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
<b>Material</b>	Polymeric bodies/lenses	Polymeric bodies/lenses
<b>Operating Temperature</b>	-50°C to 60°C	-50°C to 60°C

Actuator Properties & Panel Mount Installation				
Actuator	Drawing	Description	Part Code	Additional Information
		Momentary Push Button for 2 Contact Blocks	<b>HKHPBMMSS</b>	Actuator supplied with 7 coloured inserts.
		Momentary Push Button for 3 Contact Blocks	<b>HKHPBMMTC</b>	Three contact version only available for din rail mounting.
		Momentary Mushroom Push Button	<b>HKHPBMMMR</b> <b>HKHPBMMMG</b> <b>HKHPBMMMB</b>	Available in Red, Green and Black. (please see final character in part code)
		Maintained Mushroom Push Button with Pull Release	<b>HKHPBPMTR</b> <b>HKHPBPMTG</b> <b>HKHPBPMTB</b>	
		2 Position Rotary Selector Switch	<b>HKH2PSMT*</b> (Maintained) <b>HKH2PSMMR*</b> (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	<b>HKH3PSMTI*</b> (Maintained) <b>HKH3PSMMR*</b> (Momentary R) <b>HKH3PSMML*</b> (Momentary L) <b>HKH3PSMMLR*</b> (Momentary L & R)	
		Momentary Illuminated Push Button with LED Lamp	<b>HKHPBILLMM</b>	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	<b>HKHPBKMTMRH</b> <b>HKHPBKMTMRV</b>	Available with horizontal or vertically orientated contact blocks. Please see last character for selection. Only available in Red.



Actuator Properties & Panel Mount Installation				
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 in the Momentary Push Button section.</i>
		Actuator Stopping Plug	HKHCP	<i>Close up plug supplied in lid if actuator is omitted.</i>

## Panel Mount Actuators

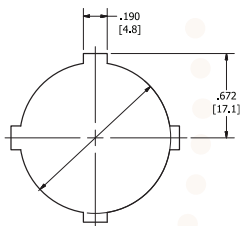
Hazcon actuators are available for installation into end user assemblies with either the Hazcon din rail assembly or the Hazcon panel mount bracket.

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*

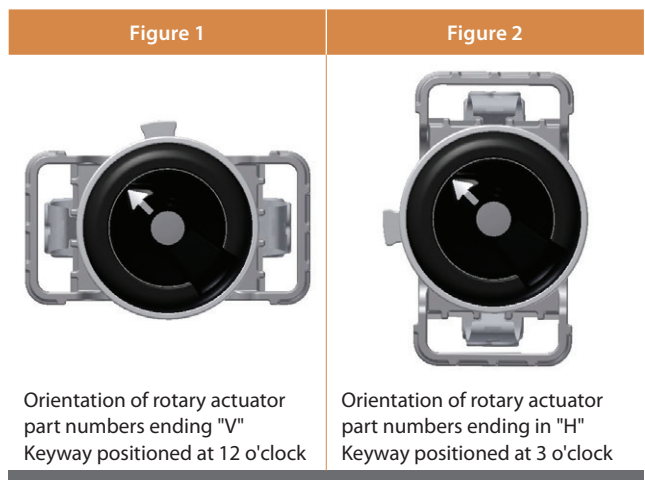
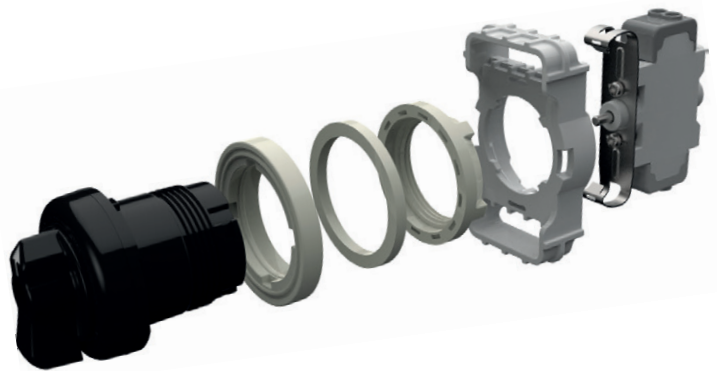
Actuators are intended for mounting into 30.5mm device openings in enclosure covers which have a thickness ranging between 1.02mm and 6.35mm. Intended for use with Hazcon contact modules.



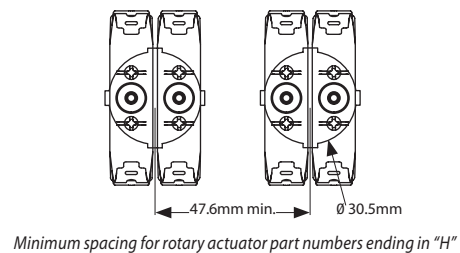
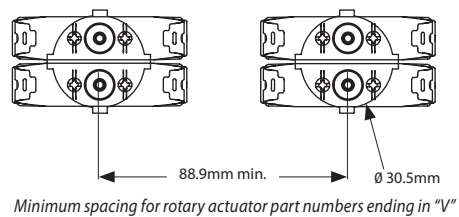
30.5mm Actuator and Lens Hole Detail





### 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 being submitted for full equipment approval to a Third Party certification body.

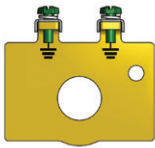
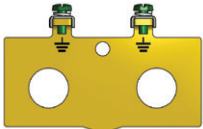


Minimum spacing is required for both horizontal and vertical mounting contact modules:






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
	HKHPBSSMFLO	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 6.60mm
	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.

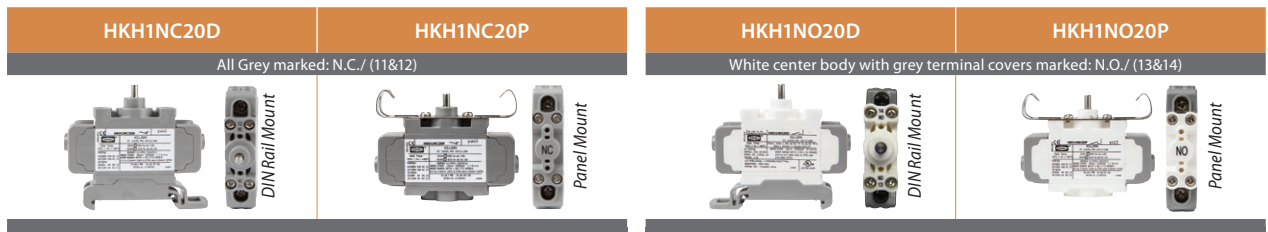
Brass Earth Continuity Plates		
Product	Entry Size/Qty	Part Code
	1 X M20	HKHGP11M20
	2 X M20	HKHGP12M20
	1 X M25	HKHGP11M25
	1 X M32	HKHGP11M32
	2 X M20	HKHGP22M20
	2 X M25	HKHGP22M25
	1 X M32	HKHGP21M32

Brass 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)

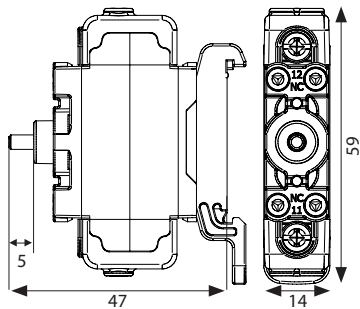
## Factory Sealed Contact Block Modules



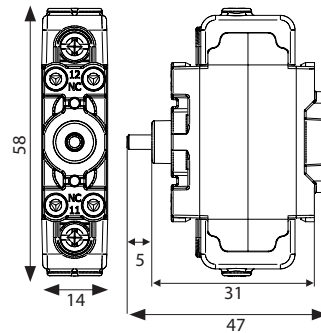
N/C - Normally Closed - Contact block is supplied in CLOSED position

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  
DC125 1A DC-12

\*Din rail mount contact blocks 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 2.5mm<sup>2</sup> (Solid & Stranded)
- 4.0mm<sup>2</sup> (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
<b>Certificates</b>	DEMKO 12 ATEX 1202251U IECEX UL 12.0033U	UL File E12379, Volume 3, Section 1
<b>Area Classification</b>	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
<b>Protection Method</b>	⊕ 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)
<b>Construction/Test Standards</b>	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
<b>Material</b>	Polymeric housing Brass alloy terminals Stainless Steel plunger and bushings	Polymeric housing Brass alloy terminals Stainless Steel plunger and bushings
<b>Operating Temperature</b>	-50°C to 60°C	-50°C to 60°C

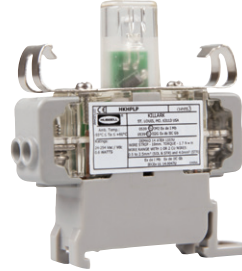


Factory Sealed Indicator Lamp Modules

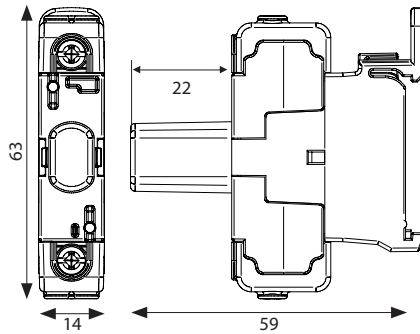
HKHPLD



HKHPLP



LED Rail Mounted Indicator Lamp Module



Features Specifications

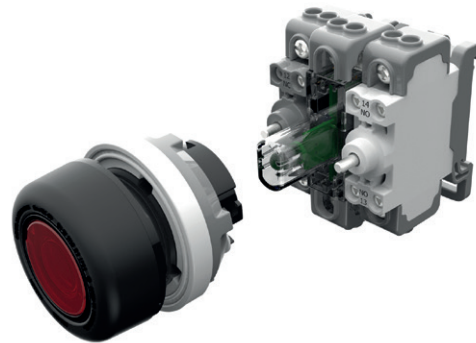
Hazcon Indicator Lamp modules are available for illuminated indication. High ambient temperature range make the module ideally suited for use in harsh or hazardous areas.

Wire Range for 1 or 2 conductors as listed:

- 0.5 to 2.5mm<sup>2</sup> (Solid & Stranded)
- 4.0mm<sup>2</sup> (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 contact blocks 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.

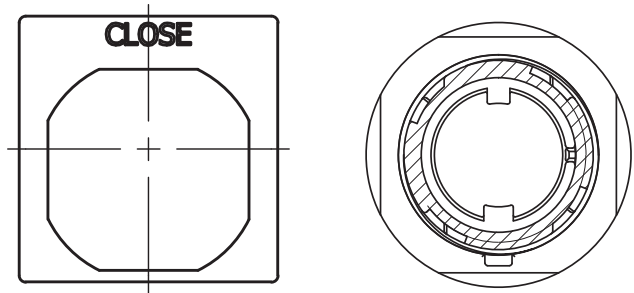
Push buttons are available in a choice of colours. (red, blue, amber, green and clear)

Pilot Light Certification

Hazcon	ATEX/IECEX	cULus
<b>Certificates</b>	DEMKO 14 ATEX 1337U UL 14.0047U	E12379, Volume 1, Section 2
<b>Area Classification</b>	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
<b>Protection Method</b>	⊕ 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)
<b>Construction/Test Standards</b>	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
<b>Material</b>	Polymeric flameproof housing; metallic terminals	Polymeric flameproof housing; metallic terminals
<b>Operating Temperature</b>	-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 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 in to the highlighted section of the part code.

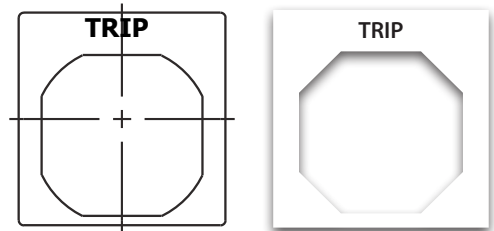
Example: HKH1ANDRP15A-1

A denotes selection of legend.

A - START

### Custom Legend

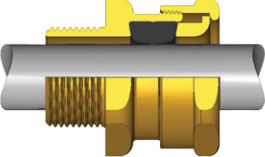
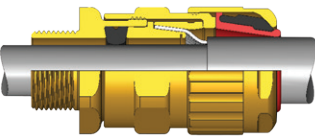
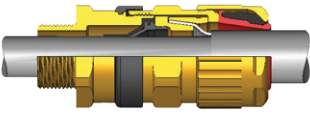
Custom Legends of up to 18 characters can also be supplied, by inserting '1' in the part code and providing a text description of your required legend.



## 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)
<b>501/421</b> 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		
<b>501/453/RAC</b> 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
<b>501/453/UNIV</b> 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 Steel

For further cable gland information go to [www.ehawke.com](http://www.ehawke.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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