



## Vandal Resistant

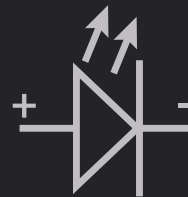
Manufactured from solid stainless steel the vandal resistant range of push button switches and pilot lamps can withstand severe abuse.

The IP65 rated units are available in several sizes and lighting options, with the integrated LED illumination in a variety of colours.



## LED Illumination

Low power consumption and long life make LED's the ideal light source for Pilot Lamps and switches. All IONNIC pilot lamps are available in several colours and are multi-voltage 12-24V.





## Miscellanies

LED Pilot Lamps	150
Vandal Resistant	152
Push Button – Hi-Lux	153
Push Button	154
General	155
Ignition	156
Trafficator	159
Pendant	160
Pressure	162
Custom Engraved Panels	163

# Miscellanies

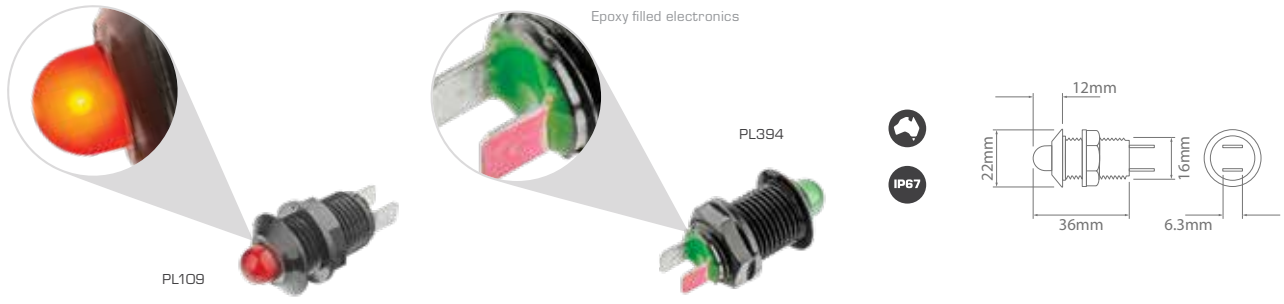
## LED Pilot Lamps



12V  
24V

- LED illumination.
- Flashing models available in Dome series.
- Multi-voltage.
- Ring and centre style illumination.
- Epoxy filled electronics for enhanced moisture & vibration protection.
- Reverse polarity protected.
- Dome models environmentally sealed – IP67.
- Variety of colours.

<b>Voltage :</b>	12–24V
<b>Body :</b>	Polymer
	Vandal Resistant
<b>Light Source :</b>	Stainless Steel
<b>Ingress Protection :</b>	LED
	Dome
<b>Operating Temperature :</b>	IP65 (face only)
<b>Approvals :</b>	IP67
	Dome
	-24°C to 50°C
	Vandal Resistant
	CE, RoHS



### Wide View – Dome

Voltage	Size (mm)	Max. Panel Thickness (mm)	Type	Red	Green	Amber	Blue
12–24	17	29	Continuous	<b>PL109</b>	<b>PL110</b>	<b>PL111</b>	<b>PL112</b>
12–24	17	29	Flashing	<b>PL393</b>	<b>PL403</b>	<b>PL394</b>	—

LRO1 Load resistor maybe required when used as an alternator warning light.



### Wide View

Voltage	Size (mm)	Max. Panel Thickness (mm)	Red	Green	Amber	Blue	White
12–24	16	9	<b>BA16DS-RED</b>	<b>BA16DS-GRN</b>	<b>BA16DS-AMB</b>	<b>BA16DS-BLU</b>	<b>BA16DS-WHT</b>

LRO1 Load resistor maybe required when used as an alternator warning light.



## Vandal Resistant

Voltage	Size (mm)	Max. Panel Thickness (mm)	Red		Green		Amber		Blue	
			Ring	Centre	Ring	Centre	Ring	Centre	Ring	Centre
12-24	12	7	—	P12-CR	—	P12-CG	—	P12-CA	—	P12-CB
12-24	19	7	P19-RR	P19-CR	P19-RG	P19-CG	P19-RA	P19-CA	P19-RB	P19-CB

LRO1 Load resistor maybe required when used as an alternator warning light.



## Accessories – Load Resistor

Part No.	Description
LR01	Pre-wired 5W load resistor



# Miscellanies

Vandal Resistant

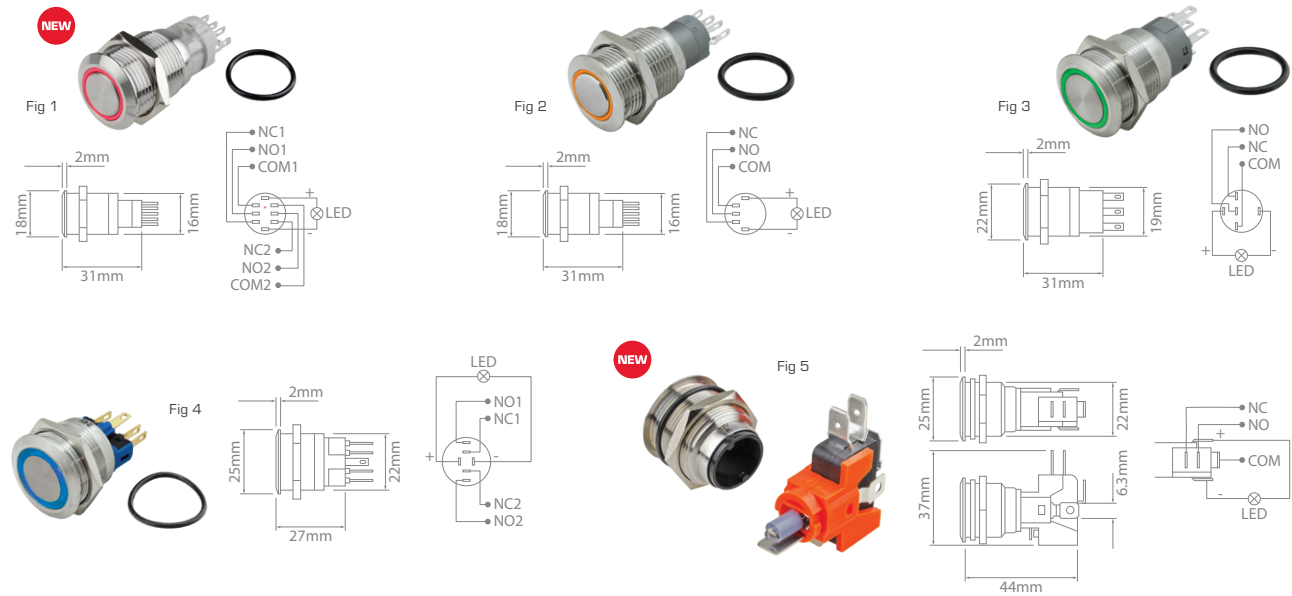


- Vandal resistant momentary or latching switches.
- LED illumination.
- Highly impact resistant.
- Illuminates in a variety of colours.
- Environmentally sealed – IP65 (face only).



Contacts :  
 Body :  
 Ingress Protection :  
 Approvals :

Silver Alloy  
 Stainless Steel  
 IP65 (face only)  
 CE, RoHS



## Vandal Resistant Switches

Size (mm)	Voltage	Current Rating (A)	Max. Panel Thickness (mm)	Function	Contact Type	Fig	Red	Green	Amber	Blue
16	12-24	2	10	Momentary	N/O & N/C*	1	<b>L16-RR-DC</b> <span style="color:red">NEW</span>	—	—	—
16	12-24	2	10	Momentary	N/O & N/C	2	<b>L16-RR</b>	<b>L16-RG</b>	<b>L16-RA</b>	<b>L16-RB</b>
19	12-24	2	10	Momentary	N/O & N/C	3	<b>L19-RR</b>	<b>L19-RG</b>	<b>L19-RA</b>	<b>L19-RB</b>
22	12-24	2	8	Momentary	D/M & D/B	4	<b>L22-RR</b>	<b>L22-RG</b>	<b>L22-RA</b>	<b>L22-RB</b>
22	12	20	13	Latching	N/O & N/C	5	<b>L22HD-RL12V</b> <span style="color:red">NEW</span>	—	—	—
22	24	20	13	Latching	N/O & N/C	5	<b>L22HD-RL24V</b> <span style="color:red">NEW</span>	—	—	—
22	12	20	13	Momentary	N/O & N/C	5	<b>L22HD-RM12V</b> <span style="color:red">NEW</span>	—	—	—
22	24	20	13	Momentary	N/O & N/C	5	<b>L22HD-RM24V</b> <span style="color:red">NEW</span>	—	—	—

\*L16-RR-DC is double pole.

## Vandal Resistant – Accessory

Part No.	Description	Suit
L16-PLUG	Push on plug with 15cm fly leads	16mm



- Suits 2016 on (N80 models) Toyota Hi-Lux switch cut-outs.
- Connector supplied.
- LED Function & Location illumination.



RHL163-19

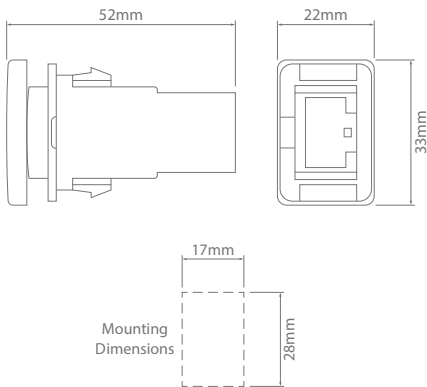


Push Button – Hi-Lux



RHL163-00

**Voltage :** 12V  
**Current Rating :** 3A  
**Actuation :** Single Pole  
**Illumination :** Function + Location



RHL163-19



RHL163-09

## Hi-Lux Series – Normally Open Contact NEW

Action	Wiring Diagram	Illumination	Part No.	Symbol	Text
		Blue	RHL163-00	—	—
		Blue	RHL163-09		DRIVING LIGHT
OFF ON		Blue	RHL163-19		BEACON
		Blue	RHL163-22		WORK LAMP
		Blue	RHL163-79		LIGHTBAR
OFF Mom.ON		Blue	RHL168-78		BATTERY LINK



# Miscellanies

## Push Button

12V  
24V

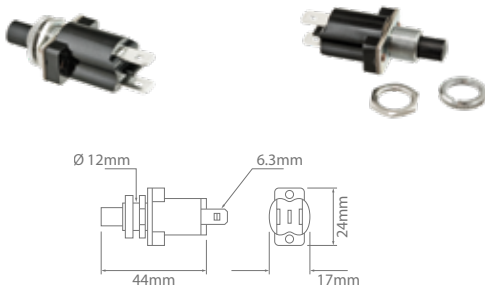


- Heavy & standard duty models available.
- Multi-voltage.
- Blade and screw terminal types available.
- Protective boot on 90030 model.

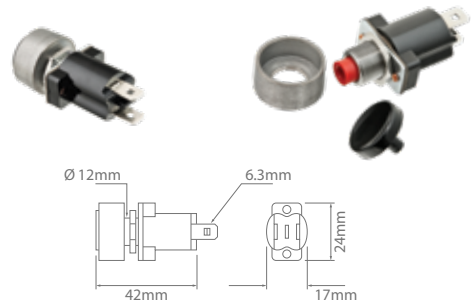
Voltage :  
Circuitry :  
Contacts :  
Body :

12-24V  
SPST  
Silver Alloy  
Polymer  
Die-cast

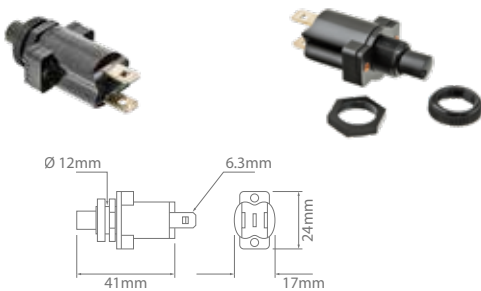
90030



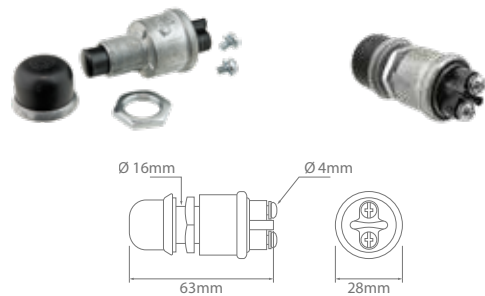
C936



C936/K



C936/D1



90030

### Push Button

Part No.	Current Rating (A) @ 12V	Contact Type	Action	Max. Panel Thickness (mm)	Terminal Type
C936	10	N/O	Off - Mom.On	5	Blade
C936/K	10	N/O	Off - Mom.On	5	Blade
C936/D1	10	N/O	Off - Mom.On	3.5	Blade
90030	35	N/O	Off - Mom.On	8	Screw

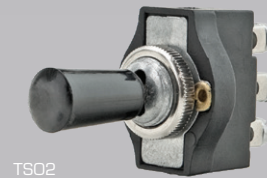
- Heavy & standard duty push-pull switches available.
- PPS-02 supplied with 4 coloured caps.
- PPS-02 can be illuminated, bulb not supplied.



PPS-01



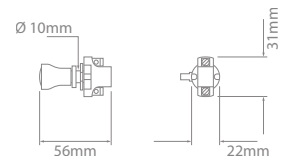
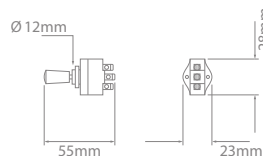
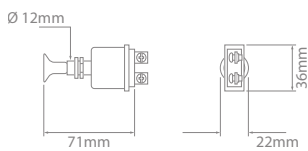
PPS-02



TS02

12V  
24V

Voltage : 12–24V  
 Contacts : Silver Alloy  
 Body : Polymer  
 PPS-01 Die-cast



PPS-01



TS02



PPS-02

## General

Part No.	Description	Voltage	Current Rating (A)	Action	Max. Panel Thickness (mm)
PPS-01	Heavy duty push-pull	12–24	75	Off – On	10
PPS-02	Standard duty push-pull	12–24*	20	Off – On	2.5
TS02	Toggle	12–24	10	On – Off – On	2.5

\*Bulb not included with PPS-02. Bulb type – BA7S.





# Miscellanies

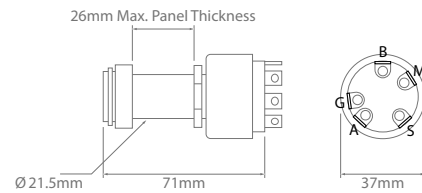
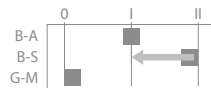
Ignition



- Bosch™ & Lucas™ style heat start switches.
- Die-cast & polymer models available.
- Marine version available – IGS-03.
- Multi-voltage.
- IGS-08 environmentally sealed – IP67.

6V  
36V

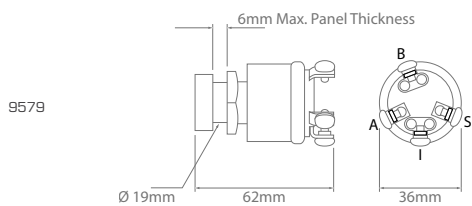
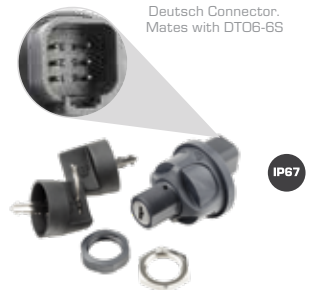
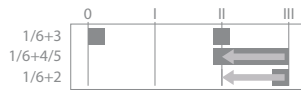
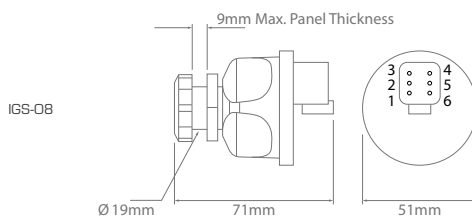
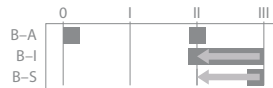
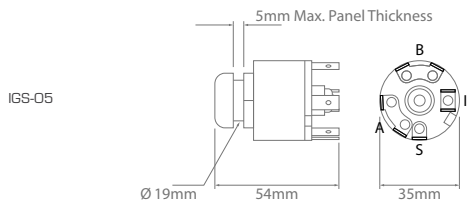
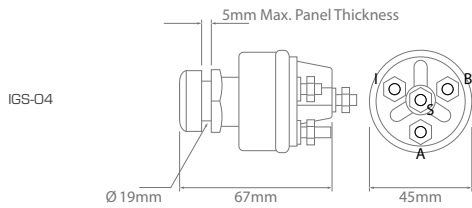
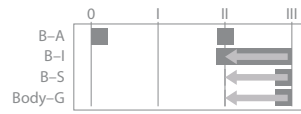
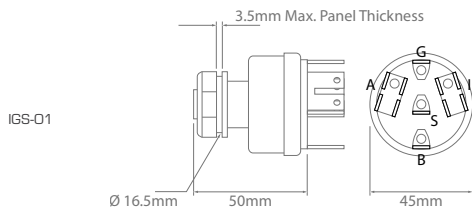
Voltage : 6–36V  
Ingress Protection : IGS-08 IP65  
IP67



## Ignition – Marine

Part No.	Key Positions	Terminal Size (mm)	Terminal Type	Ground	Battery	Terminal ID Magneto	Start	Ignition
IGS-03	Off – Ignition – Start	4	Screw	G	B	M	S	A

Terminals G and M are bridged when key is in "Off" position.



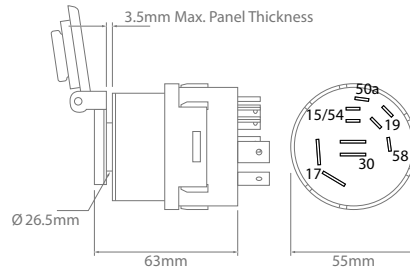
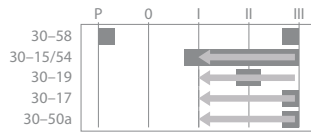
## Ignition – Universal

Part No.	Key Positions	Terminal Size (mm)	Terminal Type	Ground	Terminal ID			
					Ignition	Start	Battery	Accessory
<b>IGS-01</b>	Accessory – Off – Ignition – Start	6.3	Blade	G	I	S	B	A
<b>IGS-04</b>	Accessory – Off – Ignition – Start	5	Stud	—	I	S	B	A
<b>IGS-05</b>	Accessory – Off – Ignition – Start	6.3	Blade	—	I	S	B	A
<b>IGS-08</b>	Accessory – Off – Ignition – Start*	NA	Deutsch	—	4/5	2	1/6	3
<b>9579</b>	Accessory – Off – Ignition – Start	4	Screw	—	I	S	B	A

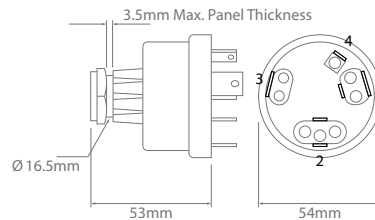
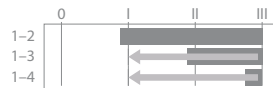
\*To re-engage "Start" position, key must be cycled through off first. This feature prevents the starter motor clashing with running engine.



# Miscellanies



IGS-02



IGS-07

## Ignition – Preheat

Part No.	Key Positions	Terminal Size (mm)	Terminal Type	Terminal ID				
				Start	Preheat	Ignition	Battery	Park
IGS-02	Park – Off – Ignition – Preheat – Start	6.3 & 9.4	Blade	50a, 17	19	15/54	30	58
IGS-07	Off – Ignition – Preheat – Start	6.3 & 9.4	Blade	4	3	2	1	—

"Park" – this key position provides power for use on auxiliary circuits while vehicle is not operating. i.e. external park lights etc.



IGS-02/KEY



IGS-02/BOOT



IGS-07/KEY

## Ignition – Preheat – Accessories

Part No.	Description	Suits
IGS-02/KEY	2 x spare key	IGS-02
IGS-02/BOOT	Protective boot	IGS-02
IGS-07/KEY	2 x spare key	IGS-07

- Die-cast alloy heavy duty.
- Universal mount.
- 900 model features pilot lamp for turn and hazard indication.
- 900 model can be used for 24V applications by changing the pilot bulb.
- 905 features indicator, hazard and dimmer functions.
- 905 includes a 12V change over relay.



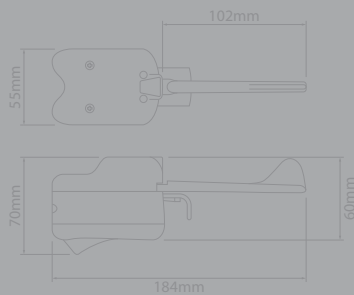
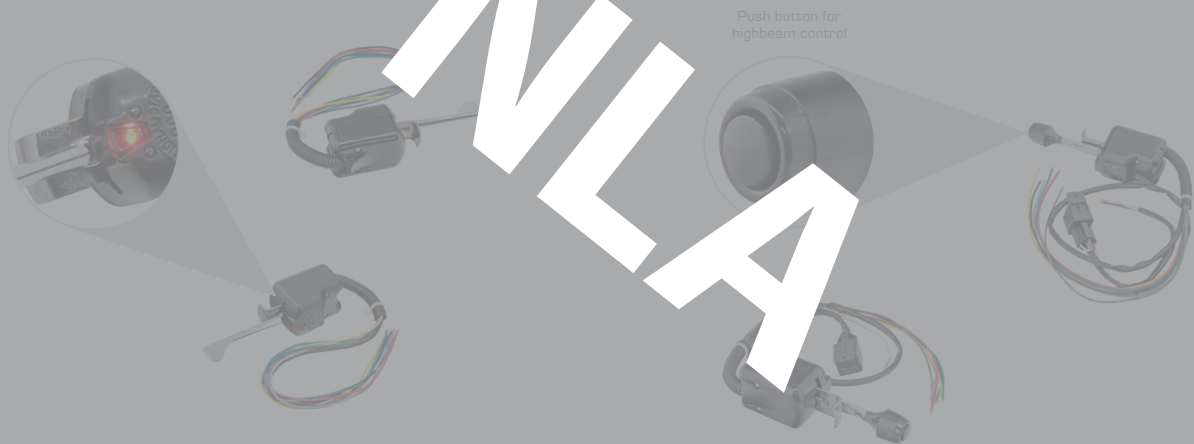
905



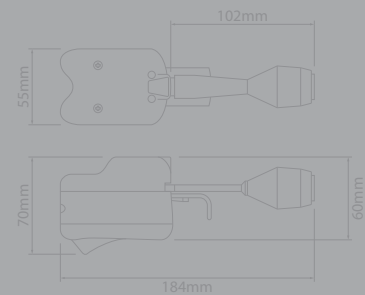
900

Voltage :  
Body :

12-24V  
Die-cast



900



905

## Trafficator

Part No.	Description	Harness Length (mm)
900	Heavy duty. Indicator, Hazard Lights	450
905	Heavy duty. Indicator, Hazard Lights, Dimmer. Includes 12V C/O relay	800

Supplied with adjustable column mounting strap.



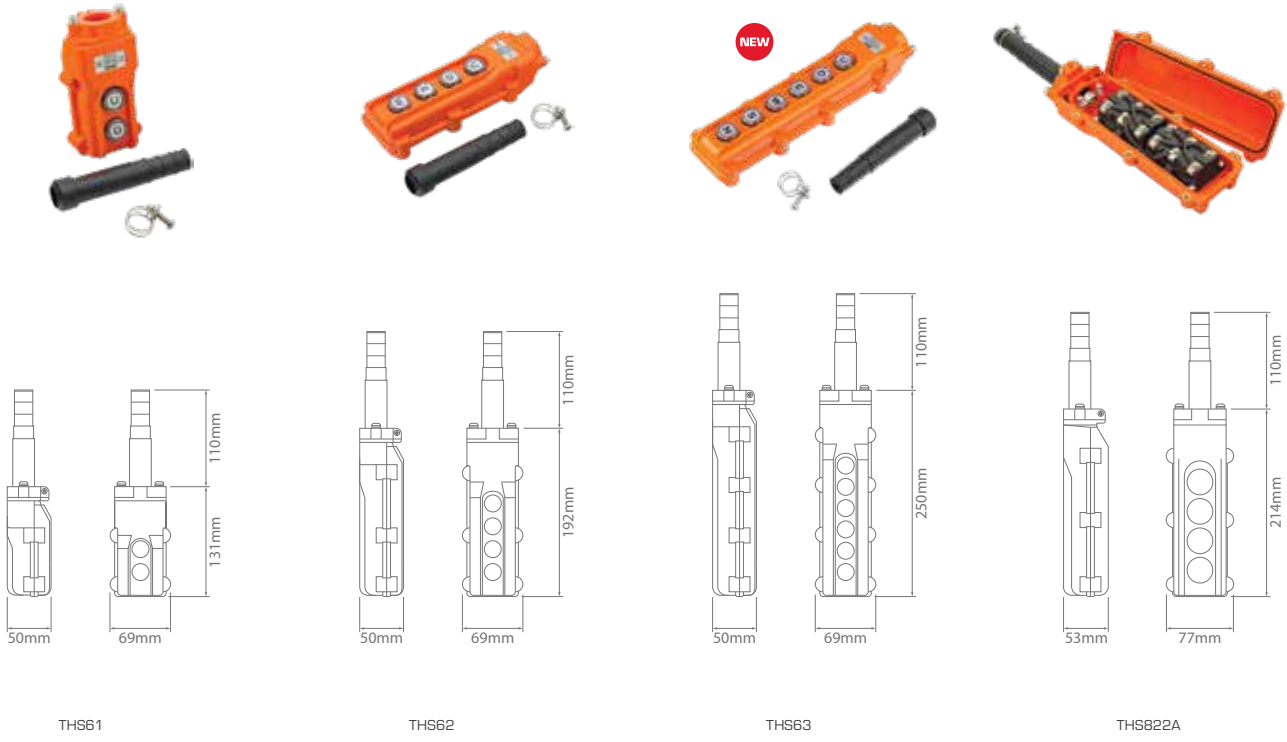
# Miscellanies

Pendant



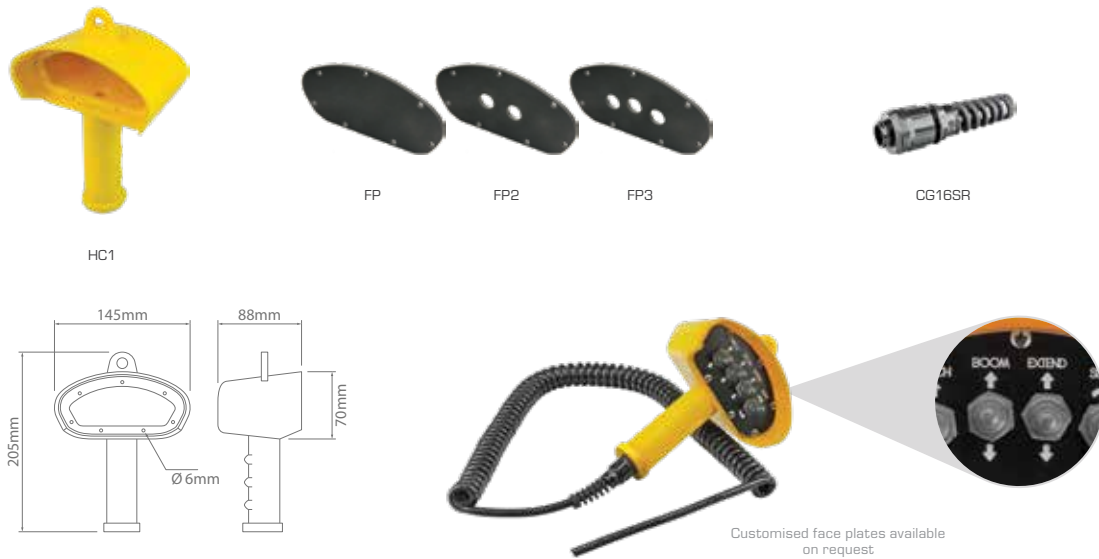
- Waterproof model available – THS822A.
- HC1 Pendant Control configurable to personal requirements.
- Engraved face plate for the HC1 Pendant Control on request.
- Hoist Push Button series used for indirect switching.

Voltage : 12–24V  
 Body : Hoist ABS  
 HC1 Polyurethane



## Hoist Push Button

Part No.	Description	Current Rating [A]
THS61	2 button hoist control – Single Speed. Only for relay solenoid control	5 @ 250V
THS62	4 button hoist control – Single Speed. Only for relay solenoid control	5 @ 250V
THS63 <span style="color:red">NEW</span>	6 button hoist control – Single Speed. Only for relay solenoid control	5 @ 250V
THS822A	Waterproof 4 button hoist control – Single Speed	10 @ 250V



Customised face plates available on request

## Pendant Control

Part No.	Description
<b>HC1</b>	Hand controller body
<b>FP</b>	Face plate – blank
<b>FP2</b>	Face plate – 2 hole. 8mm switch hole
<b>FP3</b>	Face plate – 3 hole. 8mm switch hole
<b>CG16SR</b>	Strain relief adaptor – 5mm to 10mm. IP68

Requires 7 x 8mm screws for face plate.  
Engraved face plates available on request.



## Suzi Coils – Without Plugs

Part No.	No. of Cores	Cores x mm <sup>2</sup>	Working Length (m)	Closed Coil Ø (mm)	Tails Type	Tail Lengths (mm)	Sheathing
<b>RC013</b>	7	7 x 0.5	3	20	2 x Tangent	2 x 200	Polyurethane
<b>RC014</b>	7	7 x 0.5	2	20	2 x Tangent	2 x 200	Polyurethane
<b>RC031</b>	7	7 x 1.5	8	25	2 x Tangent	2 x 200	Polyurethane
<b>RC032</b>	7	1 x 2, 6 x 1	3	28	2 x Tangent	2 x 200	Polyurethane
<b>RC022</b>	7	1 x 6, 6 x 2.5	3	90	Axial & Tangent	1 x 200, 1 x 1000	Hytrek



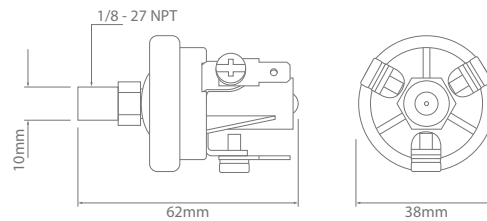


- Compatible with a wide range of substances including air, motor oils, transmission oils, fuels and other similar petroleum based liquids and gases.
- Water compatible model on request.
- Single pole change over.
- Robust, compact design suitable for harsh environments.
- Tolerates high pressure spikes.
- Supplied with 6.3mm blade terminals.

**Voltage :** 6-24V  
**Circuitry :** SPCO  
**Proof Pressure :** 500 psi  
**Current Rating :** 8A @ 12V  
**Terminals :** #8-32 screws & 6.3mm blade  
**Connection :** 1/8 - 27 NPT Male  
**Base :** Brass  
**Body :** Glass Reinforced Polyester  
**Diaphragm :** Polyimide Film  
**Contact :** Silver Alloy, Gold Plated  
**Operating Temperature :** -40°C to 120°C  
**Approvals :** CE, UL



Shown with optional protective boot



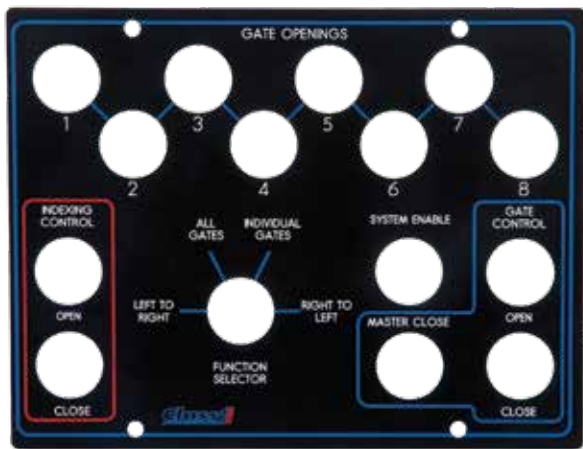
## Pressure

Part No.	Switching Pressure		Maximum Operating Pressure		Burst Pressure	
	psi	kPa	psi	kPa	psi	kPa
PS3-4	4	27	150	1034	750	5171
PS3-10	10	69	150	1034	750	5171
PS3-15	15	103	150	1034	750	5171
PS3-20	20	137	150	1034	750	5171
PS3-30	30	206	250	1723	1250	8618
PS3-40	40	275	250	1723	1250	8618
PS3-50	50	344	250	1723	1250	8618
PS3-60	60	413	250	1723	1250	8618
PS3-BOOT	Protective Boot					

- Front or rear engraving.
- Large range of colour combinations including metallic finishes.
- Materials available for use with backlighting.
- UV Stabilised.
- Ideal for:
  - Safety signage
  - Control panels
  - Product tags
  - Name plates



Engraver Type : Rotary Flat Bed  
 Maximum Size : 500mm x 380mm  
 Materials : Laminated Impact Acrylic  
 UV Stabilised



## Custom Engraving

Custom engraving is available for the creation of control panels and name plates up to a maximum size of 500mm x 380mm.

Choose from a large range of colours with some materials suitable for use with backlighting.

For further information ask your local reseller or enquire on-line at [ionnic.com](http://ionnic.com).

