
miscellaneous



Miscellanies

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Miscellanies



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

Body :	Vandal Resistant	Polymer
Light Source :	LED	Stainless Steel
Ingress Protection :	IP65 (face only)	IP67
Operating Temperature :	Dome	-24°C to 50°C
Approvals :	Vandal Resistant	CE, RoHS



LED Pilot Lamps – Wide View – Dome

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

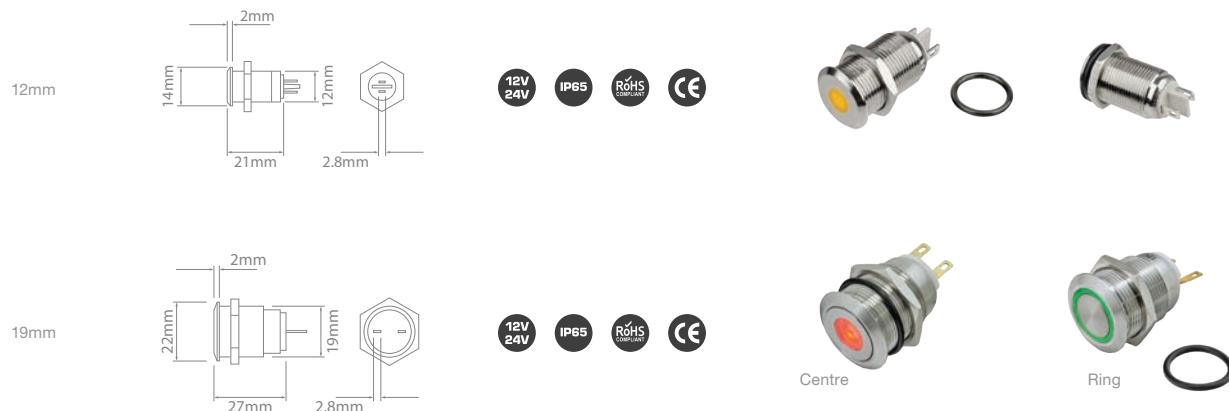
LR01 Load resistor maybe required when used as an alternator warning light.



LED Pilot Lamps – Wide View

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

LR01 Load resistor maybe required when used as an alternator warning light.



LED Pilot Lamps – Vandal Resistant

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

LR01 Load resistor maybe required when used as an alternator warning light.



LED Pilot Lamp – Buzzer NEW

Voltage	Size (mm)	Max. Panel Thickness (mm)	Red	Sound Level (dB)
12-24	16	11	BA16RB	80



LED Pilot Lamps – Load Resistor

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

Miscellanies



IP65 CE RoHS

- Vandal resistant momentary or latching switches.
- Black anodised stainless steel models available.
- Laser etching available for anodised models.
- LED illumination.
- Highly impact resistant.
- Variety of illumination colours available
- Environmentally sealed – IP65 (face only).

Current Rating :

High Current 2A

20A

Contacts :

Silver Alloy

Body :

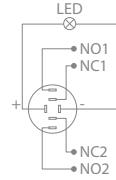
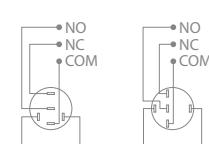
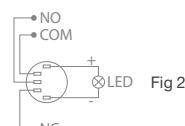
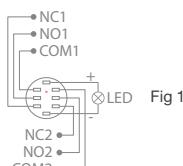
Stainless Steel

Ingress Protection :

IP65 (face only)

CE, RoHS

Approvals :



Vandal Resistant Switches

Size (mm)	Voltage	Max. Panel Thickness (mm)	Function	Contact Type	Fig	Red	Green	Amber	Blue
16	12-24	10	Momentary	N/O & N/C*	1	L16-RR-DC	—	—	—
16	12-24	10	Momentary	N/O & N/C	2	L16-RR	L16-RG	L16-RA	L16-RB
19	12-24	10	Momentary	N/O & N/C	3	L19-RR	L19-RG	L19-RA	L19-RB
19	12-24	10	Momentary	N/O & N/C	4	L19TF-RR	—	—	L19TF-RB
19	12-24	10	Latching	N/O & N/C	4	—	—	—	L19TF-RB-L
22	12-24	8	Momentary	N/O & N/C*	5	L22-RR	—	L22-RA	L22-RB

*Double Pole.



Vandal Resistant Switches – Anodised NEW

Size (mm)	Voltage	Max. Panel Thickness (mm)	Contact Type	Blue Illumination	
19	12-24	10	N/O & N/C	L19TAF-RB	L19TAF-RB-L
22	12-24	10	N/O & N/C	L22TAF-RB	L22TAF-RB-L



Vandal Resistant Switches – High Current

Size (mm)	Max. Panel Thickness (mm)	Function	Contact Type	Red Illumination	
22	13	Latching	N/O & N/C	L22HD-RL12V	L22HD-RL24V
22	13	Momentary	N/O & N/C	L22HD-RM12V	L22HD-RM24V



Vandal Resistant Switches – Accessory

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



Miscellanies



90030



C936

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

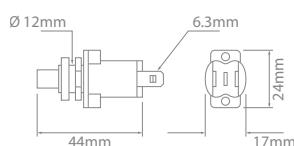


12V
24V

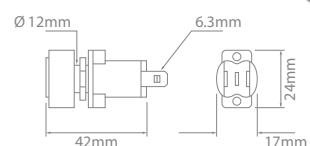
C936/K

Voltage :
Circuitry :
Contacts :
Body :

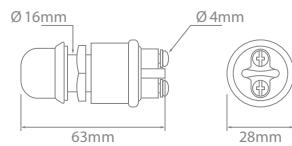
12-24V
SPST
Silver Alloy
Polymer
Die-cast
90030



C936



C936/K



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
90030	35	N/O	Off – Mom.On	8	Screw

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

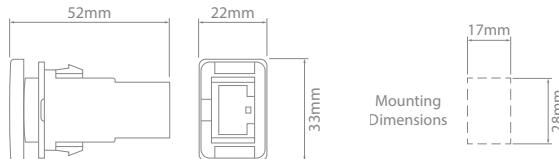


RHL163-19



RHL163-00

Voltage : 12V
 Current Rating : 3A
 Actuation : Single Pole
 Illumination : Blue



RHL163-19



Hi-Lux Series – Normally Open Contact

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



Miscellanies

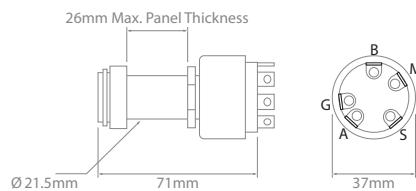
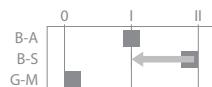
Ignition



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

Voltage :
Ingress Protection :

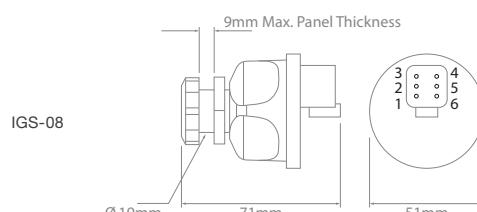
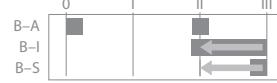
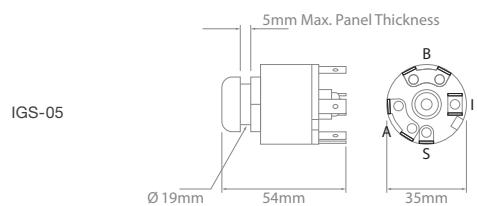
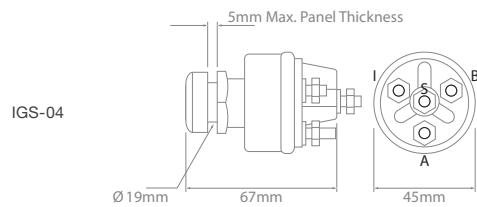
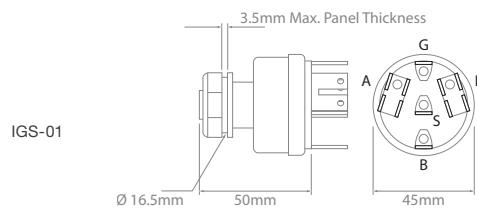
IGS-08
6–36V
IP65
IP67



Ignition – Marine

Part No.	Key Positions	Terminal Size (mm)	Terminal Type	Ground	Battery	Terminal ID	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.



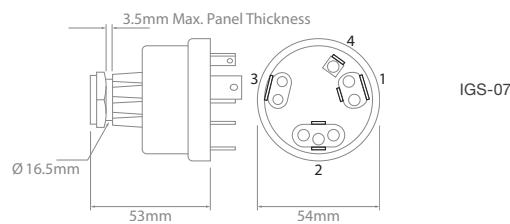
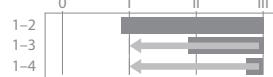
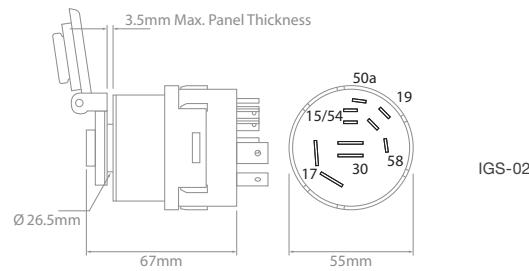
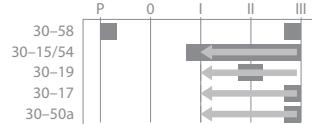
Ignition – Universal

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

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



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Ignition – Preheat

Part No.	Key Positions	Terminal Size (mm)	Terminal Type	Terminal ID				Battery	Park
				Start	Preheat	Ignition			
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	Spare key	IGS-02
IGS-02/BOOT	Protective boot	IGS-02
IGS-07/KEY	Spare key	IGS-07

- Heavy & standard duty push-pull switches available.
- PPS-02 supplied with 4 coloured caps.
- PPS-02 can be illuminated, bulb not supplied.
- S5145 ideal for bonnet & boot alarm applications.



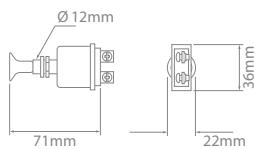
Contacts :
Body :

PPS-02, TS02
PPS-01

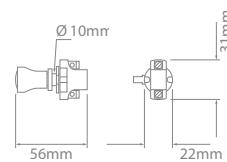
Silver Alloy
Polymer
Die-cast

S5145

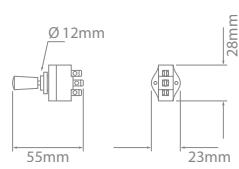
TS02



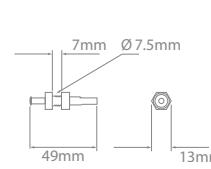
PPS-01



PPS-02



TS02



S5145



General

Part No.	Description	Voltage	Current Rating (A)	Action	Max. Panel Thickness (mm)	Travel Distance (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	—
S5145	Momentary pin switch	12	5	On - Off	7	8

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



Miscellanies

Pendant

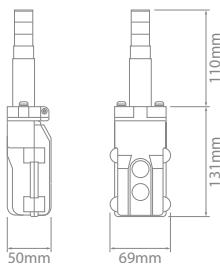


- THS822A environmentally sealed – IP65.
- HC1 Pendant Control configurable to personal requirements.
- Engraved face plate for the HC1 Pendant Control on request.
- Hoist Push Button series used for indirect switching.

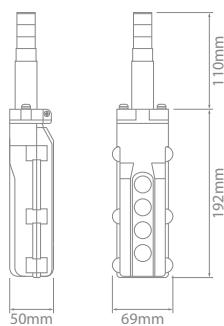
Voltage :
Body :

Hoist
HC1
THS822A

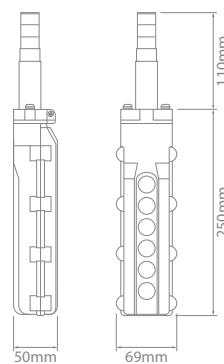
12-24V
ABS
Polyurethane
IP65



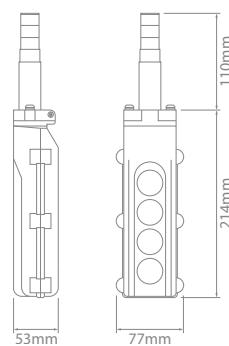
THS61



THS62



THS63



THS822A

Hoist Push Button

Part No.	Description	Current Rating (A) @ 250V
THS61	2 button hoist control – Single Speed. Only for relay solenoid control	5
THS62	4 button hoist control – Single Speed. Only for relay solenoid control	5
THS63	6 button hoist control – Single Speed. Only for relay solenoid control	5
THS822A	Weatherproof 4 button hoist control – Single Speed	10



Pendant Control

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

Requires 7 x 8mm screws for face plate.

Engraved face plates available on request.



Suzi Coils

Part No.	No. of Cores	Cores x mm ²	Plug	Working Length (m)	Closed Coil Ø (mm)	Tails	Tail Lengths (mm)	Sheathing
RC013	7	7 x 0.5	—	3	20	2 x Tangent	2 x 200	Polyurethane
RC014	7	7 x 0.5	—	2	20	2 x Tangent	2 x 200	Polyurethane
RC031	7	7 x 1.5	—	8	25	2 x Tangent	2 x 200	Polyurethane
RC032	7	1 x 2, 6 x 1	—	3	28	2 x Tangent	2 x 200	Polyurethane
RC022	7	7 x 0.75	1 x N12	7.2	29	2 x Tangent	2 x 200	Hytrex



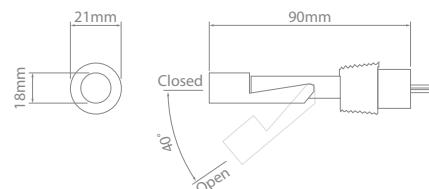
NEW



- Ideal for tank level applications with most commonly used liquids.
- Compact size.
- AC & DC compatible.
- Can be operated as N/C or N/O dependant on fitting orientation.

Current Rating :
 Body :
 Approvals :
 Operating Temperature :

1A
 Nylon
 RoHS
 -20°C to 75°C



Side Mount Level Switch NEW

Part No.	Contact Type	Switching Angle	Mounting Size	Switching Voltage AC/DC	Cable Length (mm)
12-0030	N/O & N/C	40°	1/2" NPT	300	1000

Can operate as N/C or N/O dependant on fitting orientation.

NEW

Tilt Switch

- 15° switching angle.
- Compact size.
- AC & DC compatible.
- Can be operated as N/C or N/O dependant on fitting orientation.
- Environmentally sealed – IP65.



Current Rating : 0.25A
 Body : ABS
 Ingress Protection : IP65
 Approvals : RoHS
 Operating Temperature : -20°C to 70°C

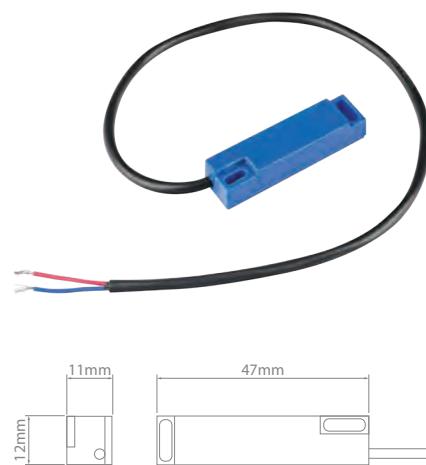
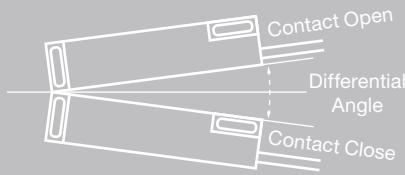


Differential Angle

The tilt switch operates when tilted from the horizontal position. The switch movement required to cause a contact change (e.g. from off to on) is called the differential angle.

It is very important when designing a tilt switch to allow for the differential angle and to understand that, when in the horizontal position, the switch contact may be open or closed.

This switch module operates with the housing in any orientation.



Tilt Switch NEW

Part No.	Contact Type	Max Differential Angle	Switching Voltage AC/DC	Cable Length (mm)
12-1039	N/O & N/C	15°	60	300

Can operate as N/C or N/O dependant on fitting orientation.



Miscellanies

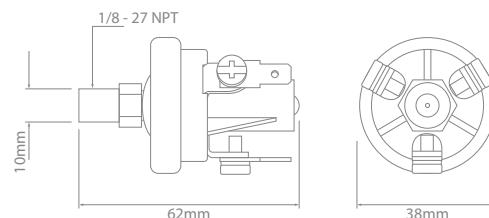


- Compatible with a wide range of substances including air, motor oils, transmission oils, fuels and other similar petroleum based liquids and gases.
- Water compatible model on request.
- Single Pole Change Over.
- Robust, compact design suitable for harsh environments.
- Tolerates high pressure spikes.
- 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 psi	Switching Pressure kPa	Maximum Operating Pressure psi	Maximum Operating Pressure kPa	Burst Pressure psi	Burst Pressure 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					



Laser Engraving

Permanently engrave your company's logo on to almost any surface.

Laser engraving is a process where the laser beam physically removes the surface of the material to expose a cavity that reveals an image at eye level.

- Ideal for applications where the mark must be permanent e.g. anti-counterfeiting, serialisation.
- Mark any shape including text and barcodes.
- Incredible precision.
- Most metals and many non-metal materials.

Applications:



Date Codes & Batch Codes



Promotional Symbols/Icons



Primary GTIN Barcodes



Two Dimensional Codes



IONNIC Services



Engraving

- Large range of colour combinations including metallic finishes.
- Materials available for use with backlighting.
- UV stabilised for interior & exterior use.
- Optional adhesive back.
- Ideal for:
 - Safety signage
 - Control panels
 - Product tags
 - Name plates



ENG-STARTERISO
45 x 20mm



ENG-BATTISO
45 x 20mm



ENG-STARTER
40 x 10mm



ENG-BATTERY
40 x 10mm



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 online at ionnic.com.