

IDEM IDIS Interlock Safety Switches

IDIS Series Housing

- Tongue (key) (IDIS-1) or lever hinge (IDIS-2) interlock operated
- 90° adjustable head
- One 1/2 in NPT female conduit opening

- 22mm mounting profile
- Standard and compact housings
- Force guided N.C. contacts 
- Purchase actuating key separately (See accessories)

See electrical specifications later in this section.

IDEM IDIS-1 Tongue (Key) Interlock Safety Switches

Part Number	Price	Body Material	Head Material	Weight (lb)	Actuator Travel / Force for Positive Opening	Contact Configuration	Dimensions
IDIS-190051		Plastic	Plastic	0.35	6mm/ 12N	1 N.O., 2 N.C. Slow action	Figure 1
IDIS-190055						3 N.C. Slow action	Figure 1
IDIS-190059						1 N.O., 1 N.C. Snap action	Figure 1

IDIS-190051



IDEM IDIS-2 Hinge Interlock Safety Switches

Part Number	Price	Body Material	Head Material	Weight (lb)	Actuator Rotation / Force for Positive Opening	Contact Configuration	Dimensions
IDIS-192002		Plastic	Plastic	0.35	7° / 0.5N	1 N.O., 2 N.C. Slow action	Figure 2
IDIS-192005						3 N.C. Slow action	Figure 2
IDIS-192008						1 N.O., 1 N.C. Snap action	Figure 2

IDIS-192002



Dimensions

mm [in]

Figure 1

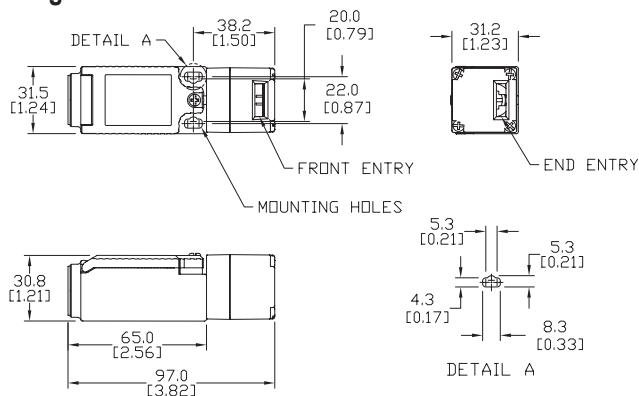
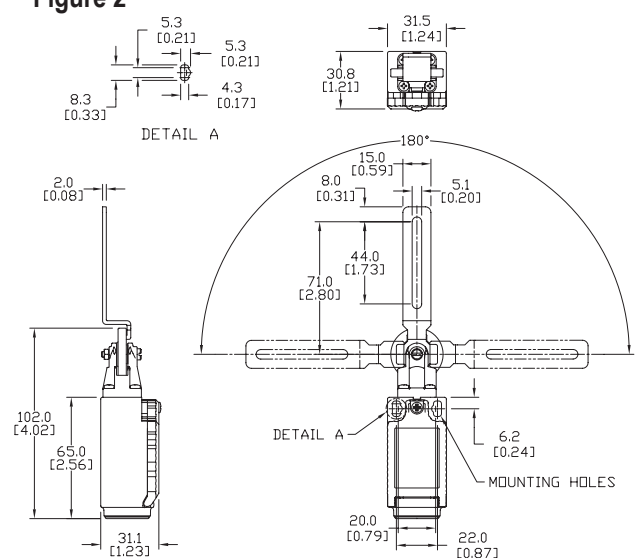


Figure 2



IDEM Interlock Safety Accessories

Actuator Keys For Use With IDIS-1



- All keys are 316 stainless steel
- Flexible key option available

**140103****140104****140105**

IDEM Interlock Safety Switch Actuator Tongue (Keys)

Part Number	Price	Description	Minimum Entry Radius	Weight (lb [g])	Drawings
<u>140103</u>		14.4mm mounting hole spacing, 90° bent stainless steel key/mounting tab	175mm	0.03 [13.6]	<u>PDF</u>
<u>140104</u>		14.4mm mounting hole spacing, straight stainless steel key/mounting tab	175mm	0.03 [13.6]	<u>PDF</u>
<u>140105</u>		40mm mounting hole spacing, stainless steel key with polyester flexible mounting tab	100mm	0.06 [27.2]	<u>PDF</u>

IDEM Interlock Safety Switches Specifications



Specifications							
	IDIS	INCH/MK1	HC	KM	KP/K-SS	K-15	GLx
Safety Classification and Reliability Data							
Switching Reliability (B10 _d)	2.5 x 10 ⁶ operations at 100 mA load						1.5 x 10 ⁶ operations at 100 mA load
ISO 13849-1	Up to PLe depending upon system architecture						
EN 62061	Up to SIL3 depending upon system architecture						
Safety Data—Annual Usage	8 cycles per hour / 24 hours per day / 365 days						
Agency Approvals	cULus (E258676), CE						cULus (E258676), CE, TUV
Electrical and General Specifications							
Conductor Sizes	16-12 AWG (1.5 to 2.5 mm ²)						
Utilization Category	AC15, A300, 3 A						
Thermal Current	10A						
Short Circuit Overload Protection	External 10A Fast Acting recommended						
Rated Insulation Voltage	600 VAC				500 VAC		
Contact Terminals	Stainless steel (Snap action plated brass); Max conductor 1.5 m ² (IDIS), 2.5 m ² (KM, K/K-15); 1 N•m [0.74 lb•ft] torque						
Maximum Switching Current	2.5A @24 VDC 6A @ 120 VAC, 3A @ 240 VDC (720 VA Break)						
Maximum Approach/Withdrawal Speed	600 mm/s [23.6 in/s]						NA
Enclosure Protection	IP67 (IP69K on all models with both stainless steel head and body)						
Operating Temperature	-25 to 80 °C [-13 to 176 °F]						
Vibration	IEC 68-2-6, 10 Hz to 55 Hz + 1 Hz						10 Hz to 500 Hz 0.35mm [0.014in]
Lid Screws/Torque	Plated brass 1 N•m [0.74 lb•ft]	Stainless steel T20 Torx 1 N•m [0.74 lb•ft]	Stainless steel 1 N•m [0.74 lb•ft]				Stainless steel T20 Torx 1.5 N•m [1.11 lb•ft]
Recommended Mounting Screws/ Torque	M4 1.5 N•m [1.11 lb•ft]	M5 4 N•m [2.95 lb•ft]	M4 1.5 N•m [1.11 lb•ft]		M5 4 N•m [2.95 lb•ft]		
Head Screws/Torque	Stainless steel, except snap (plated brass) 1 N•m [0.74 lb•ft]	Stainless steel T20 Torx 1 N•m [0.74 lb•ft]	Stainless steel; 1 N•m [0.74 lb•ft]				

Safety Products



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