IDEM KP/K-SS and K-15 Interlock Safety Switches

KP/K-SS and K-15 Series Housing

- Tongue (key) interlock operated
- 180 degree adjustable head
- 4 actuator entry positions
- Three 1/2 in. NPT female conduit openings
- Force guided NC contacts
- 40 mm mounting profile
- Purchase actuating key separately. (See accessories.)

See electrical specifications later in this section.

KP-200002

KP-200002-SS

K-SS-208002

IDEM KP/K-SS Interlock Safety Switches							
Part Number	*Price*	*Body Material*	*Head Material*	*Weight (lbs)*	*Actuator Travel/Force for Positive Opening*	*Contact Configuration*	*Dimensions*
KP-200002	$51.00	Plastic	Plastic	0.7	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 1
KP-200008	$66.00					1 N.O., 3 N.C. Slow action	Figure 1
KP-200011	$66.00					2 N.O., 2 N.C. Slow action	Figure 1
KP-200002-SS	$73.00		316 stainless steel	0.85		1 N.O., 2 N.C. Slow action	Figure 2
KP-200011-SS	$88.00	Plastic	316 stainless steel	0.85	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 2
K-SS-208002	$162.00	316 stainless steel		1.63		1 N.O., 2 N.C. Slow action	Figure 3
K-SS-208011	$175.00	316 stainless steel	316 stainless steel	1.63	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 3

K-15-207002

K-15-207002-SS

IDEM K-15 Interlock Safety Switches							
Part Number	*Price*	*Body Material*	*Head Material*	*Weight (lbs)*	*Actuator Travel / Force for Positive Opening*	*Contact Configuration*	*Dimensions*
K-15-207002	$50.00	Plastic	Plastic	0.66	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 4
K-15-207005	$50.00					3 N.C. Slow action	Figure 4
K-15-207002-SS	$73.00		316 Stainless Steel	0.8		1 N.O., 2 N.C. Slow action	Figure 5
K-15-207005-SS	Retired					3 N.C. Slow action	Figure 5

IDEM KP/K-SS and K-15 Interlock Safety Switches

Dimensions

mm [in]

Figure 1

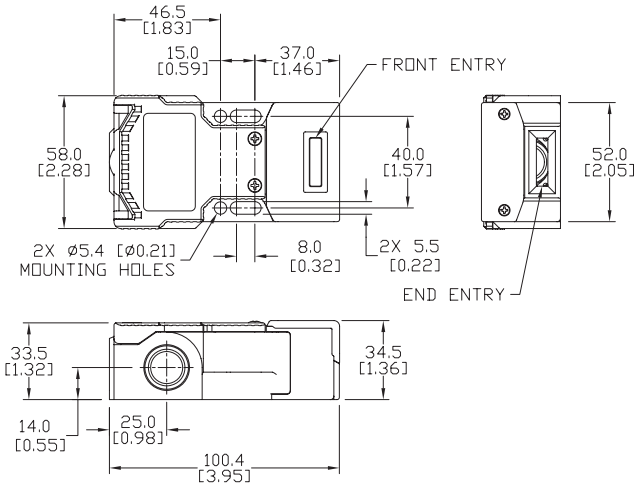


Figure 2

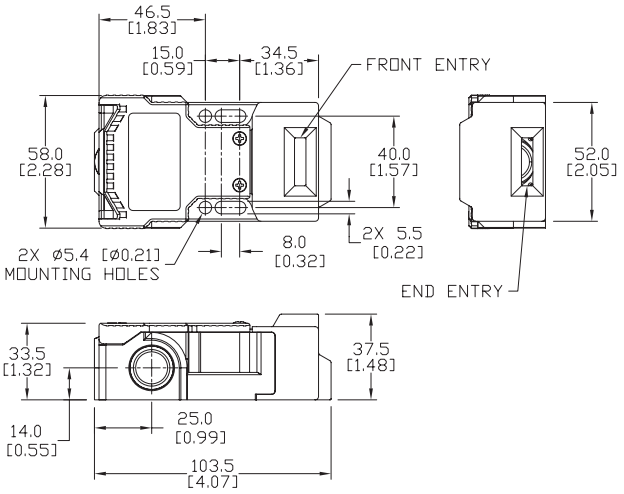


Figure 3

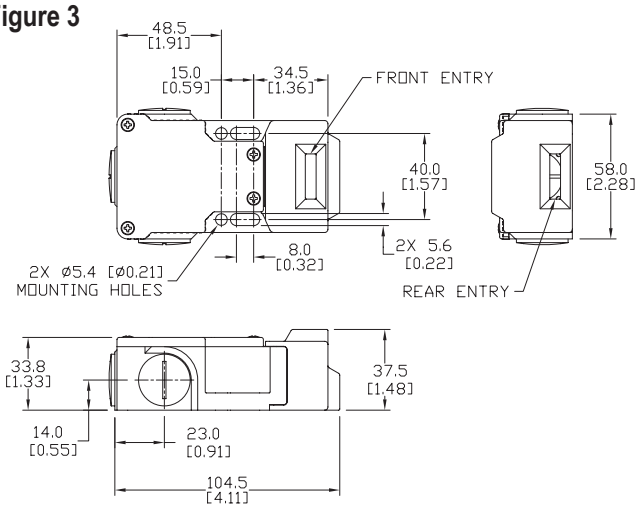


Figure 4

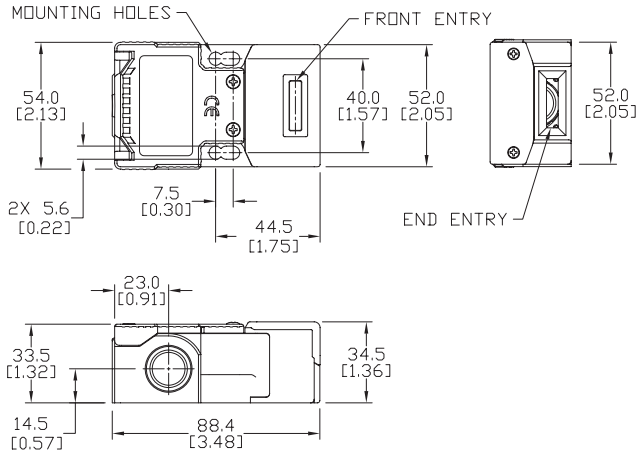
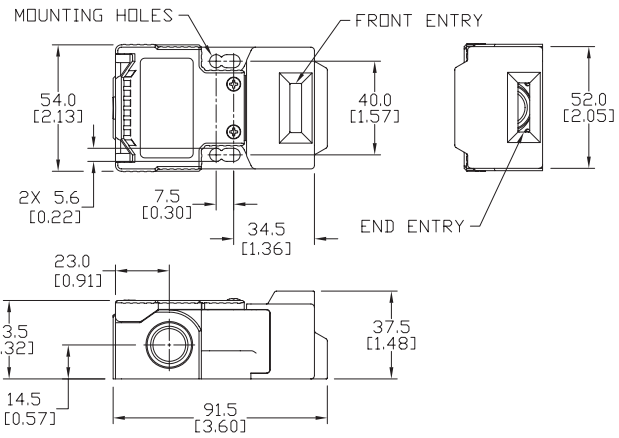


Figure 5



IDEM Interlock Safety Accessories

Actuator Keys For Use With KP/K15 and K-SS/KM/KM-SS

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

140106

140107

140108

140109

140110

140111

140130

IDEM Interlock Safety Switch Actuator Tongue (Keys)							
Part Number	*Price*	*Description*	*Use With*		*Minimum Entry Radius (mm [in])*	*Weight (lb [g])*	*Drawings*
			KP/K-15	*K-SS/KM/ KM-SS*			
140106	$10.50	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓*		175mm [6.89]	0.07 [31.8]	PDF
140107	$11.00	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓**	✓	175mm [6.89]	0.07 [31.8]	PDF
140108	$10.50	20mm mounting hole spacing, straight stainless steel key with plastic stop	✓	✓	175mm [6.89]	0.07 [31.8]	PDF
140109	$19.50	40mm mounting hole spacing, stainless steel key with polyester flexible mounting tab	✓	✓	100mm [3.94]	0.10 [45.4]	PDF
140110	$38.50	40mm mounting hole spacing, stainless steel key with black painted aluminum flexible mounting tab	✓	✓	100mm [3.94]	0.16 [72.6]	PDF
140111	$78.00	40mm mounting hole spacing, stainless steel key with mirror polished stainless steel flexible mounting tab	✓	✓	100mm [3.94]	0.22 [99.8]	PDF
140130	$54.00	IDEM lockout actuator, stainless steel, for use with IDEM tongue (key) switches	✓	✓	NA	0.10 [45.4]	PDF

*** For KP and K-15 series with plastic heads**
**** For KP and K-15 series with stainless steel heads**

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 106 operations at 100mA load						1.5 x 10^6 operations at 100mA 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, 3A						
Thermal Current	10A						
Short Circuit Overload Protection	External 10A Fast Acting recommended						
Rated Insulation Voltage	600VAC			500VAC			
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 @ 120VAC, 3A @ 240VDC (720VA Break)						
Maximum Approach/Withdrawal Speed	600mm/s [23.6 in/s]						NA
Enclosure Protection	IP67 (IP69K on all models with both stainless steel head and body)						
Operating Temperature	-25°C to 80°C [-13°F to 176°F]						
Vibration	IEC 68-2-6, 10Hz to 55Hz + 1Hz						10Hz to 500Hz 0.35 mm [0.014 in]
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 4N•m [2.95 lb•ft]	M4 1.5 N•m [1.11 lb•ft]		M5 4N•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

Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

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