

IDEM KM/KM-SS Interlock Safety Switches

KM/KM-SS Series Housing

- Tongue (key) interlock operated
- 90 degree adjustable head
- 8 actuator entry positions
- One 1/2 in. NPT female conduit opening
- Force guided NC contacts 

- 30 mm mounting profile
- Aluminum and 316 stainless steel options available
- Includes one tamper-proof T20 Torx bit
- Purchase actuating key separately. (See accessories)

See electrical specifications later in this section.

KM-203002



KM-203002-SS



KM-SS-204002



IDEM KM /KM-SS Interlock Safety Switches

Part Number	Price	Body Material	Head Material	Weight (lbs)	Actuator Travel / Force for Positive Opening	Contact Configuration	Dimensions
<u>KM-203002</u>	\$85.00	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 1
<u>KM-203008</u>	\$101.00	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	1 N.O., 3 N.C. Slow action	Figure 1
<u>KM-203011</u>	\$101.00	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 1
<u>KM-203002-SS</u>	\$109.00	Die-cast aluminum	316 stainless steel	1.1	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 2
<u>KM-203011-SS</u>	\$124.00	Die-cast aluminum	316 stainless steel	1.1	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 2
<u>KM-SS-204002</u>	\$174.00	316 stainless steel	316 stainless steel	1.4	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 2
<u>KM-SS-204011</u>	\$188.00	316 stainless steel	316 stainless steel	1.4	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 2

Dimensions

mm [in]

Figure 1

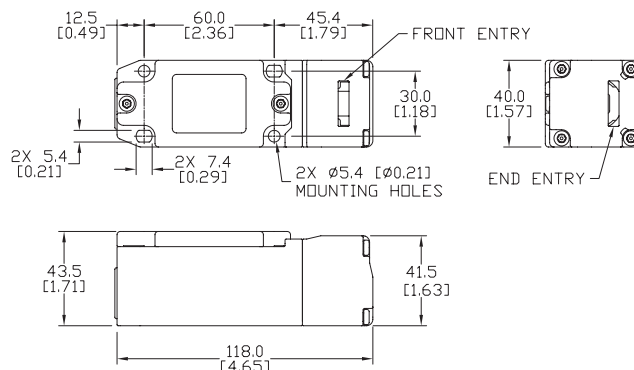
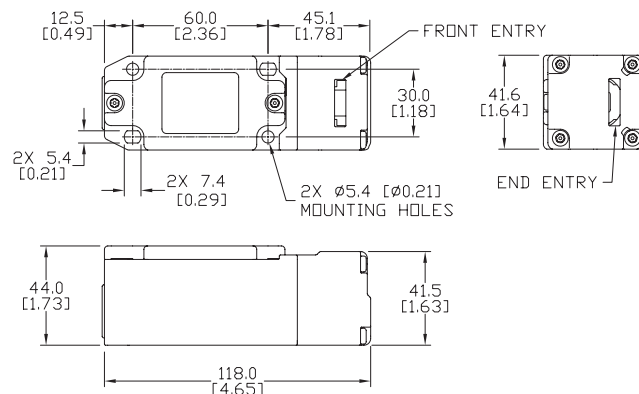


Figure 2



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



IDEM Interlock Safety Switch Actuator Tongue (Keys)

Part Number	Price	Description	Use With		Minimum Entry Radius Radius (mm [in])	Weight (lb [g])	Drawings
			KP/K-15	K-SS/KM/ KM-SS			
<u>140106</u>	\$11.00	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓*		175mm [6.89]	0.07 [31.8]	<u>PDF</u>
<u>140107</u>	\$11.50	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓**	✓	175mm [6.89]	0.07 [31.8]	<u>PDF</u>
<u>140108</u>	\$11.00	20mm mounting hole spacing, straight stainless steel key with plastic stop	✓	✓	175mm [6.89]	0.07 [31.8]	<u>PDF</u>
<u>140109</u>	\$20.00	40mm mounting hole spacing, stainless steel key with polyester flexible mounting tab	✓	✓	100mm [3.94]	0.10 [45.4]	<u>PDF</u>
<u>140110</u>	\$39.50	40mm mounting hole spacing, stainless steel key with black painted aluminum flexible mounting tab	✓	✓	100mm [3.94]	0.16 [72.6]	<u>PDF</u>
<u>140111</u>	\$81.00	40mm mounting hole spacing, stainless steel key with mirror polished stainless steel flexible mounting tab	✓	✓	100mm [3.94]	0.22 [99.8]	<u>PDF</u>
<u>140130</u>	\$55.00	IDEM lockout actuator, stainless steel, for use with IDEM tongue (key) switches	✓	✓	NA	0.10 [45.4]	<u>PDF</u>

* For KP and K-15 series with plastic heads

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

IDEM Interlock Safety Accessories



Accessories

- Gate bolt kits provide a sliding latch and lockout for swinging or sliding doors
- Comes with handle and flat actuator
- Sliding action prevents accidental closure
- Requires four M5 x 45mm mounting hardware (not included)
- Gate bolt kit materials: ABS plastic handle; mild steel yellow plate; aluminum black base; mild steel plated bar (inserts into guide); stainless steel guide and key



GBA-1-210003



GBA-1-210004



GB-210005

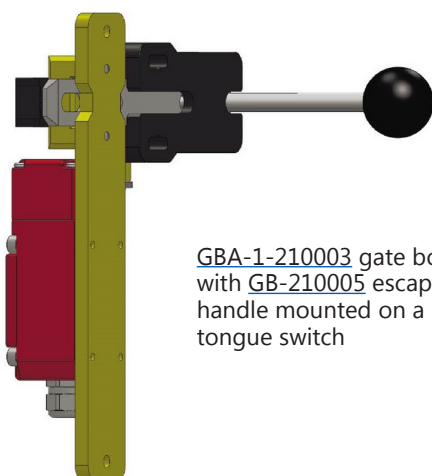


GB-210006

IDEM Interlock Safety Switch Accessories

Part Number	Price	Description	Use with:		Weight (lb [g])	Drawings
			KM	GBA-1		
GBA-1-210003	\$142.00	IDEM gate bolt, left hand version, for use with KM series safety switches. Includes actuating tongue (key).	✓		3.7 [1678]	PDF
GBA-1-210004	\$142.00	IDEM gate bolt, right hand version, for use with KM series safety switches. Includes actuating tongue (key).	✓		3.7 [1678]	PDF
GB-210005	\$20.00	IDEM rear escape handle, for use with GBA-1 and GBL-1 series gate bolts		✓	0.1 [45]	PDF
GB-210006	\$20.00	IDEM spring loaded catch, for use with GBA-1 and GBL-1 series gate bolts		✓	0.08 [36]	PDF

Assembly Example



GBA-1-210003 gate bolt with GB-210005 escape handle mounted on a KM tongue switch

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 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



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