# **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.









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IDEM KM /KM-SS Interlock Safety Switches								
Part Number	Price	Body Material	Head Material Weight		Actuator Travel / Force for Positive Opening	Contact Configuration	Dimensions	
KM-203002	\$04p2:	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 1	
KM-203008	\$004p4:	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	1 N.O., 3 N.C. Slow action	Figure 1	
KM-203011	\$004p6:	Die-cast aluminum	Die-cast aluminum	0.92	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 1	
KM-203002-SS	\$004p3:	Die-cast aluminum	316 stainless steel	1.1	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 2	
KM-203011-SS	\$004p7:	Die-cast aluminum	316 stainless steel	1.1	6mm/12N	2 N.O., 2 N.C. Slow action	Figure 2	
KM-SS-204002	\$004p8:	316 stainless steel	316 stainless steel	1.4	6mm/12N	1 N.O., 2 N.C. Slow action	Figure 2	
KM-SS-204011	\$004pa:	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

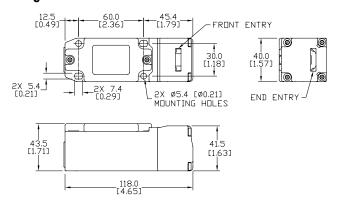
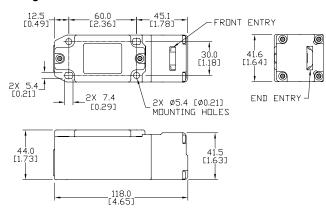


Figure 2



# **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		Use With		Minimum Entry	Weight			
	Price	Description		K-SS/KM/ KM-SS	Radius (mm [in])	(Ib [g])	Drawings	
<u>140106</u>	\$04g#:	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓*		175mm [6.89]	0.07 [31.8]	<u>PDF</u>	
<u>140107</u>	\$;04g!:	40mm mounting hole spacing, 90° stainless steel key/mounting tab	✓**	✓	175mm [6.89]	0.07 [31.8]	<u>PDF</u>	
<u>140108</u>	\$04g?:	20mm mounting hole spacing, straight stainless steel key with plastic stop	<b>√</b>	✓	175mm [6.89]	0.07 [31.8]	<u>PDF</u>	
<u>140109</u>	\$;04g,:	40mm mounting hole spacing, stainless steel key with polyester flexible mounting tab	<b>√</b>	<b>✓</b>	100mm [3.94]	0.10 [45.4]	<u>PDF</u>	
<u>140110</u>	\$04h0:	40mm mounting hole spacing, stainless steel key with black painted aluminum flexible mounting tab	<b>√</b>	<b>✓</b>	100mm [3.94]	0.16 [72.6]	<u>PDF</u>	
<u>140111</u>	\$04h1:	40mm mounting hole spacing, stainless steel key with mirror polished stainless steel flexible mounting tab	<b>√</b>	✓	100mm [3.94]	0.22 [99.8]	<u>PDF</u>	
<u>140130</u>	\$06up:	IDEM lockout actuator, stainless steel, for use with IDEM tongue (key) switches	✓	✓	NA	0.10 [45.4]	<u>PDF</u>	

<sup>\*</sup> For KP and K-15 series with plastic heads

<sup>\*\*</sup> 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









IDEM Interlock Safety Switch Accessories								
Part Number Prio	Drice	Description	Use with:		Weight (lb [g])	Drawings		
	Price Description	KM	GBA-1					
GBA-1-210003	\$004h7:	IDEM gate bolt, left hand version, for use with KM series safety switches. Includes actuating tongue (key).	✓		3.7 [1678]	PDF		
GBA-1-210004	\$004h8:	IDEM gate bolt, right hand version, for use with KM series safety switches. Includes actuating tongue (key).	<b>√</b>		3.7 [1678]	PDF		
GB-210005	\$06uq:	IDEM rear escape handle, for use with GBA-1 and GBL-1 series gate bolts		✓	0.1 [45]	PDF		
GB-210006	\$06us:	IDEM spring loaded catch, for use with GBA-1 and GBL-1 series gate bolts		✓	0.08 [36]	<u>PDF</u>		

#### **Assembly Example**



# **IDEM Interlock Safety Switches Specifications**



Specifications										
	IDIS	INCH/MK1	НС	КМ	KP/K-SS	K-15	GLx			
Safety Classification and Reliability Data										
Switching Reliability (B10 <sub>d</sub> )	2.5 x 106 operations at 100mA load									
ISO 13849-1		Up to PLe depending upon system architecture								
EN 62061			Up to SIL3 o	depending upon syste	em architecture					
Safety Data - Annual Usage			8 cycles per	hour / 24 hours per o	day / 365 days					
Agency Approvals			cULus (E2	258676), CE			cULus (E258676), CE, TUV			
		Elect	rical and Genera	l Specifications						
Conductor Sizes		16-12 AWG (1.5 to 2.5 mm <sup>2</sup> )								
Utilization Category	AC15, A300, 3A									
Thermal Current	10A									
Short Circuit Overload Protection	External 10A Fast Acting recommended									
Rated Insulation Voltage	600VAC 500VAC									
Contact Terminals	Stail	nless steel (Snap action	on plated brass); Max	conductor 1.5 m <sup>2</sup> (ID	OIS), 2.5 m <sup>2</sup> (KM, K/K-15)	; 1 N•m [0.74 lb•ft] to	rque			
Maximum Switching Current			2.5A @24 VDC 6A	@ 120VAC, 3A @ 24	40VDC (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 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 M5 n [1.11 lb•ft] 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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