KLP/KLM/KL3-SS Series Housing

- · Solenoid locking, tongue (key) interlock operated
- · Power to unlock
- 90 degree adjustable head
- One (KLP) or three (KLM, KL3-SS) 1/2 in. female NPT conduit opening
- 30mm mounting profile

- Slotted manual release on lid and side (KLP/ KLM) or anti-tamper keyed manual release on lid and side (KL3-SS)
- Includes one tamper-proof T20 Torx bit
- Purchase actuating key and anti-tamper manual release key separately (See Accessories)

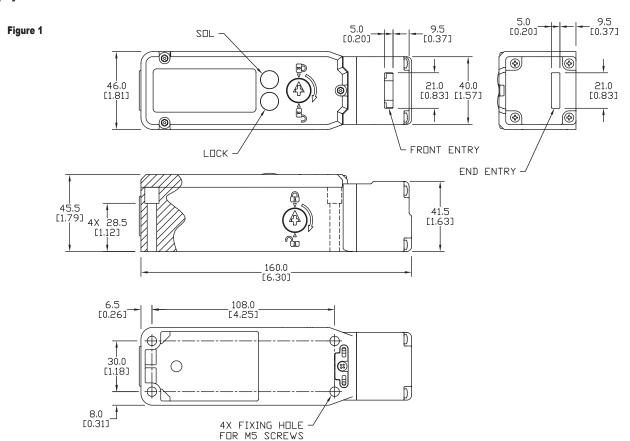
See electrical specifications later in this section.

KLP-201002 KLM-202002 KL3-SS-205002



	IDEM KLP/KLM/KL3-SS Series Solenoid Interlock Safety Switches											
Part Number	Price	Body Material	Head Material	Weight (lbs)	Actuator Travel / Force for Positive Opening	Holding Force	Solenoid Voltage (±10%)	LED	Contact Configuration	Dimensions		
KLP-201002	\$226.00						24 VAC/DC		2 NC safety contacts			
KLP-201005	\$231.00	Polyester plastic	316 stainless steel	1.4	10mm	1800N	110VAC	1 Solenoid Status	(1) selectable output (1 NO auxiliary contact or LED for lock status) 1 NO auxiliary contact for actuator tongue (key) status	Figure 1		
KLM-202002	\$251.00	Die-cast	Die-cast	1.9	10mm	2000N	24 VAC/DC	1	4 NC safety contacts	Figure 2		
KLM-202005	\$256.00	aluminum	aluminum	1.9	TOTTITI	200011	110VAC	Optional	(1) selectable output (1 NO auxiliary contact or LED for lock status)	Figure 2		
KL3-SS-205002	\$580.00	316	316				24 VAC/DC	Lock Status				
KL3-SS-205005	\$587.00	stainless steel	stainless steel	2.9	10mm	2000N	110VAC		1 NO auxiliary contact for actuator tongue (key) status	Figure 3		

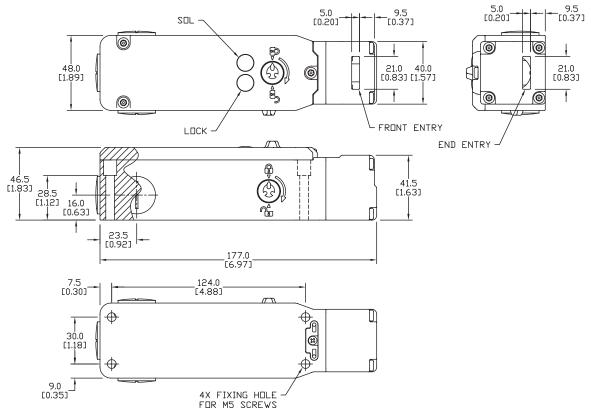
Dimensions



Dimensions

Figure 2 _ 9.5 [0.37] SOL 5.0 [0.20] _ 9.5 [0.37] **(1)** 21.0 40.0 [0.83][1.57] 21.0 [0.83] 46.0 [1.81] LOCK END ENTRY 46.5 [1.83] 4X 28.5 [1.12] 41.5 [1.63] 16.0 [0.63] 176.0 [6.93] 124.0 [4.88] 6.5 [0.26] 30.0 [1.18] Φ 8.0 [0.31] 4X FIXING HOLE FOR M5 SCREWS

Figure 3



KL1-P/KL1-SS Series Housing

- Solenoid locking, tongue (key) interlock operated
- Power to unlock
- 180 degree adjustable head
- One 1/2 in. NPT female conduit opening
- Slotted manual release on lid and side
- 40mm mounting profile
- Purchase actuating key separately (See Accessories)

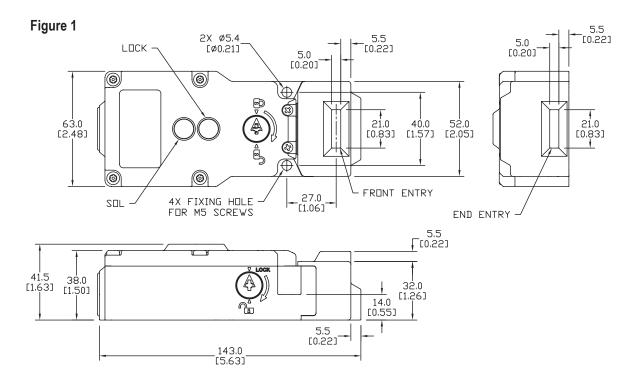
See electrical specifications later in this section.

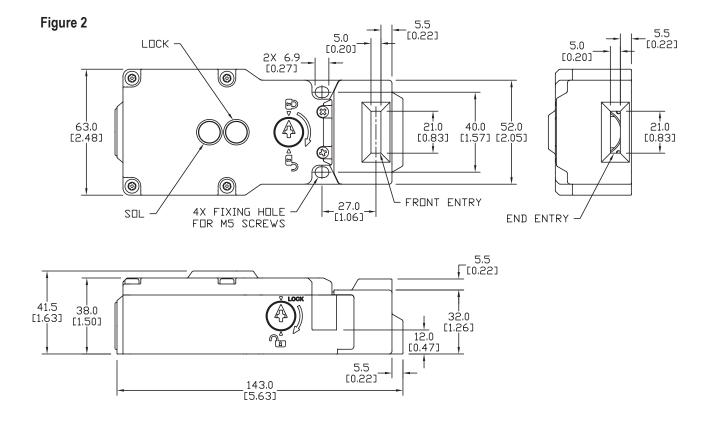


KL1-P-221302 KL1-SS-220002

	IDEM KL1-P/KL1-SS Series Solenoid Interlock Safety Switches										
Part Number	Price	Body Material	Head Material	Weight (lbs)	Actuator Travel / Force for Positive Opening	Holding Force	Solenoid Voltage	LED	Contact Configuration	Dimensions	
KL1-P-221002	\$220.00	Polyester plastic	316 stainless	1.4	10mm	1400N	24 VAC/DC	1 solenoid	2 NC safety contacts	Figure 1	
KL1-P-221005	\$225.00	i diyester plastic	steel 1.3	1.3	TOTHIN		110VAC	status	2 NO auxiliary contacts		
KL1-P-221302	\$220.00	Polyester plastic	316 stainless steel	1.4	10mm	1400N	24 VAC/DC	1 solenoid status 1 optional lock status	2 NC safety contacts 1 NO auxiliary contact for actuator tongue (key) status	5 5 4	
KL1-P-221305	\$225.00			1.3			110VAC			Figure 1	
KL1-SS-220002	\$425.00	040 4 1 1	316	0.5	40	4000N	24 VAC/DC	1 solenoid	2 NC safety contacts 2 NO auxiliary contacts	Ε' 0	
KL1-SS-220005	\$430.00	316 stainless steel	stainless steel	2.5	10mm	1600N	110VAC	status		Figure 2	
KL1-SS-220302	\$425.00	316 stainless steel	316 stainless steel	2.5	10mm	1600N	24 VAC/DC	1 solenoid status 1 optional lock status	2 NC safety contacts 1 NO auxiliary contact for actuator tongue (key) status	Figure 2	

Dimensions





KLTM/KLT-SS Series Housing

- Solenoid locking, tongue (key) interlock operated
- · Power to unlock
- 180 degree adjustable head
- One (KLTM) or three (KLT-SS) 1/2 in. NPT female conduit opening
- 73mm mounting profile

- Slotted manual release on lid and side (KLTM) or antitamper keyed manual release on lid and side (KLT-SS)
- Includes one tamper-proof T20 Torx bit
- Purchase actuating key and anti-tamper manual release key separately (See accessories)

See electrical specifications later in this section.

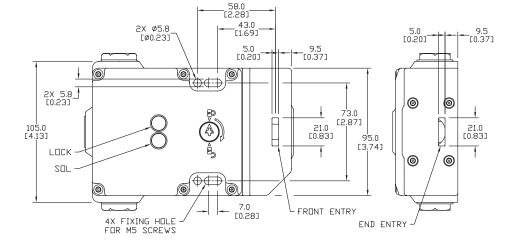




	IDEM KLTM/KLT-SS Series Solenoid Interlock Safety Switches										
Part Number	Price	Body Material	Head Material	Weight (lb)	Actuator Travel for Positive Opening	Holding Force	Solenoid Voltage	LED	Contact Configuration	Dimensions	
KLTM-450002	\$246.00	Die-cast aluminum	316 stainless	2.7		24 VAC/DC	24 VAC/DC		4 NC safety contacts 1 NO auxiliary contact for actuator	Figure 1	
KLTM-450005	\$250.00		steel	2.6 10mm	10mm	2000N	ON 110VAC	1 solenoid status 1 optional lock status			
KLT-SS-451002	\$482.00	316 stainless steel	316 stainless steel	4.7			24 VAC/DC	Siatuo	tongue (key) status	Figure 2	

Dimensions

Figure 1



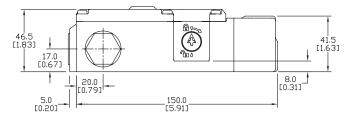
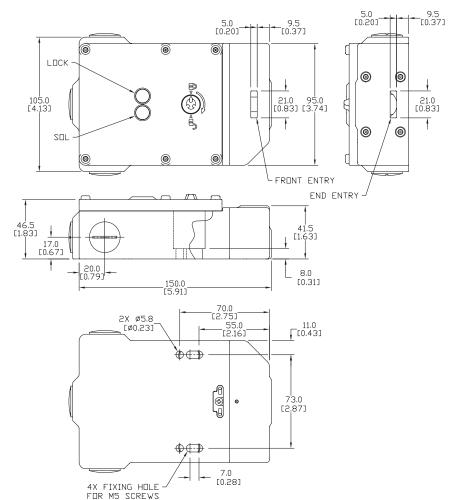


Figure 2

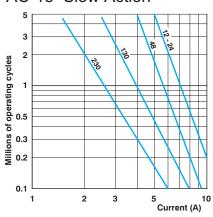


IDEM Solenoid Interlock Safety Switches Specifications

Solenoid Interlo	ck Safety Switches S	pecifications				
	KLP/KLM/KL3-SS	KL1-P/KL1-SS	KLTM/KLT-SS			
Safety	Classification and Reliability Data	a				
Switching Reliability (B10d)		2.5M operations at 100mA loa	d			
EN 954-1		Up to Category 4 with Safety Re	lay			
ISO 13849-1	Up to	PLe depending upon system arc	chitecture			
EN 62061	Up to 9	SIL3 depending upon system are	chitecture			
Safety Data - Annual Usage	8 cycle	es per hour / 24 hours per day /	365 days			
MTTFd		356 years				
Agency Approvals	cULus E258676, CE					
Elect	trical and General Specifications					
Utilization Category		AC15, A300,3A max				
Thermal Current	5A	3A				
Short Circuit Overload Protection	External 10A Fast Acting recommended					
Rated Insulation Voltage	500VAC					
Contact Terminals	Plated Brass	, Max conductor 1mm2, 16AWG	; 0.7 Nm torque			
LED2 Voltage		24VDC				
Solenoid Wattage		12W				
Solenoid Voltage	2	24 VAC/VDC or 110VAC or 230V	/AC			
Max. Switching Current		@24VDC, 6A @ 120VAC, 3A @ Auxiliary contacts max 230V@0				
Maximum Approach/Withdrawal Speed	1000 mm/s	600 mm/s				
Enclosure Protection	IP67 (IP69K on all models with both stainless steel head and body)					
Operating Temperature	3°F – 131°F]	-25°C to 40°C [-13°F to 104°F]				
Vibration		IEC 68-2-6, 10-55 Hz + 1Hz				
Lid Screws/Torque	Stainless Steel; T20 Torx; 1.5 Nm (1.11 lb-ft)	Stainless Steel; T20 Torx; 1Nm (0.74 lb-ft)	Stainless Steel; T20 Torx; 1.5 Nm (1.11 lb-ft)			
Recommended Mounting Screws/Torque	M5; 4Nm (2.95 lb-ft)					
Head Screws/Torque	Stainless Steel, T20 Torx (KL3-SS only); 1.5 Nm (1.11 lb-ft)	Stainless Steel; T20 Torx; 1.5 Nm (1.11 lb-ft)	Stainless Steel; T20 Torx; 1Nm (0.74 lb-ft)			

Electrical Durability (according to IEC 947-5-1)

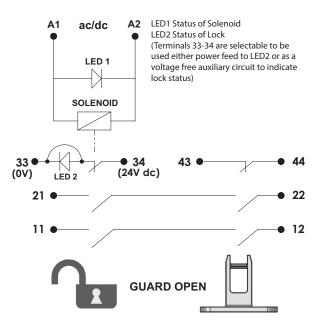




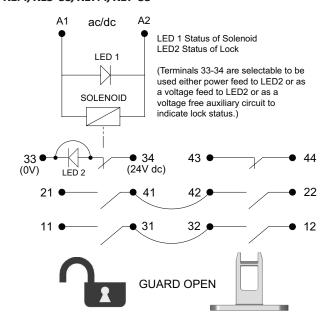
IDEM Solenoid Interlock Travel Charts

Contacts Configuration

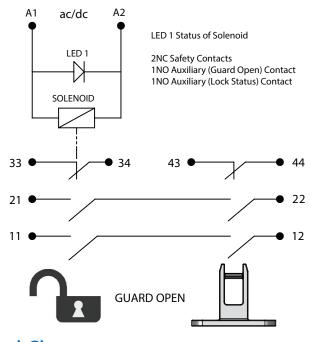




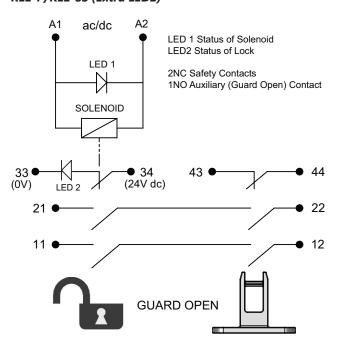
KLM/KL3-SS/KLTM/KLT-SS



KL1-P/KL1-SS (Standard)



KL1-P/KL1-SS (Extra LED2)



Travel Charts

Actuator Insertion 6.0 5.0 0 mm

11/12	Open	
21/22	Open	
33/34		Open
43/44		Open



For all IDEM switches, the normally closed (NC) circuits are closed when the guard is closed with actuator inserted.

IDEM Solenoid Interlock Accessories

Actuators

- · 4 available keys
- All keys are 316 stainless steel
- Flexible key options available
- Lockout actuator available



	IDEM Interlock Safety Switch Actuator Tongue (Keys)									
			Use wit	th:	Weight	Minimum				
Part Number	Price	Description	KLP/KLM/KL1/KLTM	KL3-SS/KLT-SS	(lbs)	Entry Radius	Dimensions			
<u>140107</u>	\$11.00	40mm mounting hole spacing, 90 degree stainless steel key/ mounting tab	√	√	0.07	175mm	Figure 1			
<u>140108</u>	\$10.50	20mm mounting hole spacing, straight stainless steel key with plastic stop	√	✓	0.07	175mm	Figure 2			
<u>140110</u>	\$38.50	40mm mounting hole spacing, stainless steel key with black- painted aluminum flexible mounting tab	√	√	0.16	100mm	Figure 3			
<u>140111</u>	\$78.00	40mm mounting hole spacing, stainless steel key with mirror polished stainless steel flexible mounting tab	√	√	0.22	100mm	Figure 3			
<u>140130</u>	\$54.00	IDEM lockout actuator, stainless steel, for use with all IDEM tongue (key) switches	√	✓	0.10	NA	Figure 4			
<u>140123</u>	\$21.50	IDEM anti-tamper manual release key, for use with KL3 and KLT series safety switches		✓	0.05	NA	Figure 5			

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

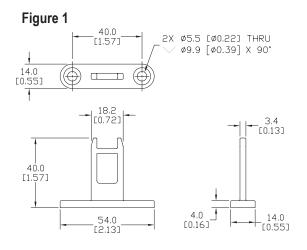
- Requires four M5 x 35mm mounting screws (not included)
- Gate bolt kit materials: ABS plastic handle; mild steel yellow plate; aluminum black base; mild steel plated bar (inserts into guide); stainless steel guide and key



	IDEM Interlock Safety Switch Accessories								
Dort Number	Price	Description .	Use with):	Mainht (Ib)	Dimensions			
Part Number		Description	KLP/KLM	GBL-1	Weight (lb)				
GBL-1-210001	\$140.00	IDEM gate bolt, left hand version, for use with KLP and KLM series safety switches. Includes actuating tongue (key).	✓		4.12	Figure 6			
GBL-1-210002	\$140.00	IDEM gate bolt, right hand version, for use with KLP and KLM series safety switches. Includes actuating tongue (key).	√		4.12	Figure 7			
GB-210005	\$19.50	IDEM rear escape handle, for use with GBA-1 and GBL-1 series gate bolts		✓	0.1	Figure 8			
<u>GB-210006</u>	\$19.50	IDEM spring loaded catch, for use with GBA-1 and GBL-1 series gate bolts		✓	0.08	Figure 9			

IDEM Solenoid Interlock Safety Accessories

Dimensions



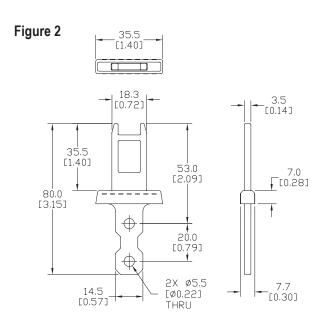
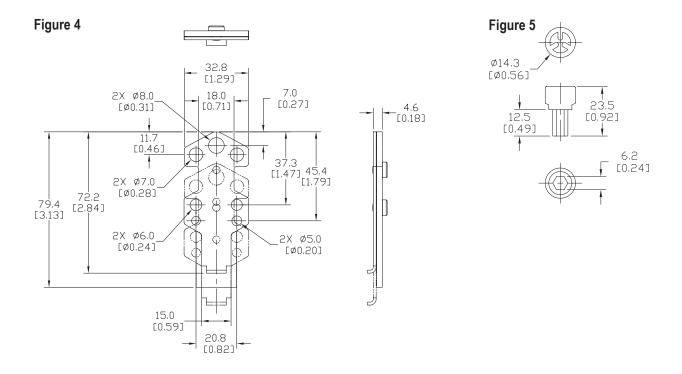
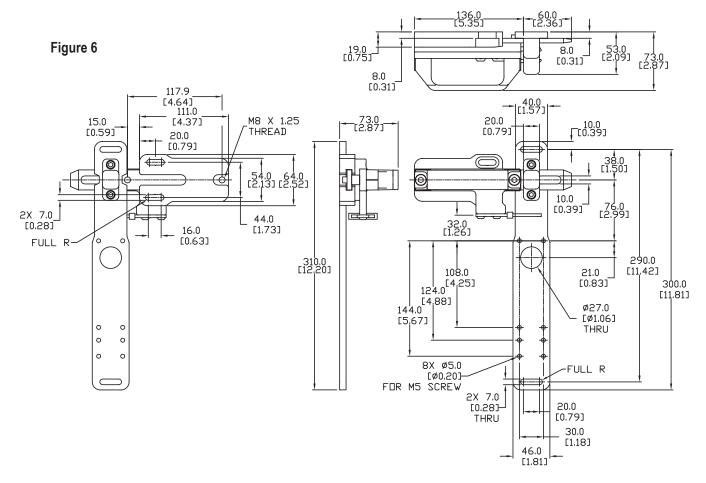


Figure 3 40.0 [1.57] 5.2 2X 5.6 [0.20] [0.22] [0.31] 3.5 [0.14] 6.5 [0.26] SLOT THRU 18.2 [0.72] 3.5 [0.14] 2X Ø5.5 [ø0.22] 56.0 [2.20] THRU 11.0 19.5 [0.77] -[0.43] 6.0 [0.24] 40.0 20.0 [0.79] [1.57] _ 51.5 [2.03]

IDEM Solenoid Interlock Safety Accessories

Dimensions

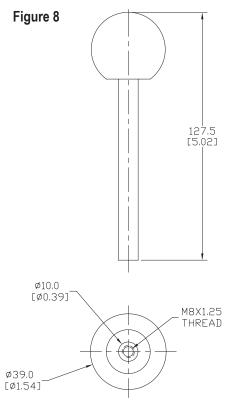


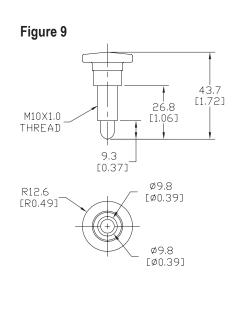


IDEM Solenoid Interlock Safety Accessories

Dimensions

Figure 7 8.0 [0.31] 136.0 [5.35] _60.0 [2.36] 19.0 [0.75] [4.64] 111.0 ___ 20.0 [0.79] __73.0 _[2.87] [4.37] 15.0 38.0 [1.50] 10.0 M8 X 1,25 THREAD [0.59] 20.0 [0.39] [0.79] 2X 7.0 [0.28] 0 0 ☻ <u>o</u> 10.0 76.0 [2.99] [0.39] 44.0 32.0 [1.26] [1.73] [0.63] FULL R M10 X 1.0 THREAD 290.0 108.0 [4₂53] 124.0 [4₈₈₃] [11,42] 310.0 [12,20] [0.83] 300.0 [11.81] ø27.0 144.0 [5_i67] [ø1.06] **THRU** 0 0 0 FULL R [Ø0.20] FOR M5 SCREW 20.0 [0.79] [0.28] THRU 30.0 [1.18] 46.0





Safety Products



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