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

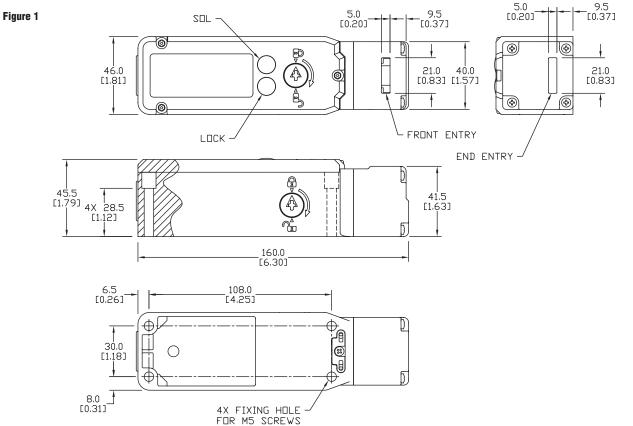
- Slotted manual release on lid and side (KLP/ KLM) or anti-tamper keyed manual release on lid and side (KL3-SS)
- Includes one tamper-proof T20 Torx bit
- Purchase actuating key and anti-tamper manual release key separately (See Accessories)

See electrical specifications later in this section.



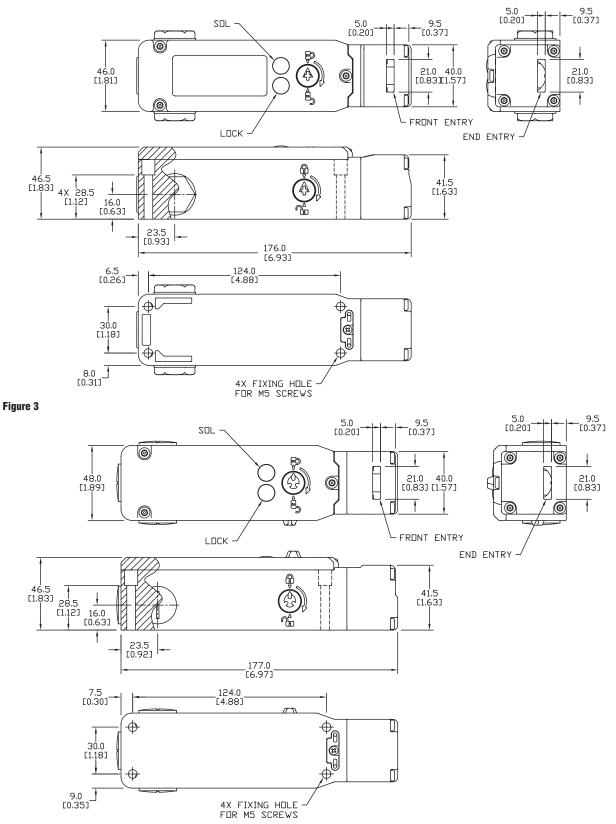
KLP-201002

			idem kli	P/KLM/K	L3-SS Series So	olenoid	Interlock Safety	Switche	S	
Part Number	Price	Body Material	Head Material	(lbo)	Actuator Travel / Force for Positive Opening	Holding Force	Solenoid Voltage (±10%)	LED	Contact Configuration	Dimensions
<u>KLP-201002</u>	\$188.00	Polyester	316 stainless	1.4	10mm	1800N	24 VAC/DC	IC .	2 NC safety contacts	
<u>KLP-201005</u>	\$194.00	plástic	steel	1.4	TOTTIT	TOUUN	110VAC		(1) selectable output (1 NO auxiliary contact or LED for lock status)	Figure 1
<u>KLP-201008</u>	retired			Ν	lo replacement available				1 NO auxiliary contact for actuator tongue (key) status	
KLM-202002	\$210.00	Die-cast	Die-cast	1.9	10mm	2000N	24 VAC/DC	1 Solenoid Status		
<u>KLM-202005</u>	\$215.00	aluminum	aluminum	1.9	TOTTIT	200011	110VAC		4 NC safety contacts	Figure 2
<u>KLM-202008</u>	retired			Ν	lo replacement available			1 Optional Lock Status	(1) selectable output (1 NO auxiliary contact or LED for lock status)	
KL3-SS-205002	\$460.00	316 stainless	316 stainless	2.9	10mm	2000N	24 VAC/DC		1 NO auxiliary contact for	
<u>KL3-SS-205005</u>	\$465.00	steel	steel	2.9	TUTIIII	200011	110VAC		actuator tongué (key) status	Figure 3
<u>KL3-SS-205008</u>	retired			Ν	lo replacement available					



Dimensions mm[in]

Figure 2



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	\$186.00	Debugator algebia	316 stainless	1.4	10mm	1400N	24 VAC/DC	1 solenoid status	2 NC safety contacts	Figure 1		
KL1-P-221005	\$192.00	Polyester plastic	steel	1.3		1400N	110VAC	T SOIEHOID STATUS	2 NO auxiliary contacts			
KL1-P-221008	retired											
KL1-P-221302	\$186.00	Polyester plastic	Polyestor plastic 316 stainless	1.4	10mm	0mm 1400N	24 VAC/DC	1 solenoid status 1 optional lock status	2 NC safety contacts			
KL1-P-221305	\$190.00		steel	1.3			110VAC		1 NO auxiliary	Figure 1		
KL1-P-221308	retired								contact for actuator tongue (key) status			
KL1-SS-220002	\$340.00	316 stainless	316 stainless	2.5	10	10	10001	24 VAC/DC	d a da a fala da la la la la la	2 NC safety		
KL1-SS-220005	\$349.00	steel	steel	2.0	10mm	1600N	110VAC	1 solenoid status	contacts 2 NO auxiliary	Figure 2		
KL1-SS-220008	retired								contacts			
KL1-SS-220302	\$340.00	3 16 Stairness	316 stainless	0.5	10	1600N	24 VAC/DC	1 solenoid status	2 NC safety			
KL1-SS-220305	\$349.00	steel	steel	2.5	10mm	TOUUN	110VAC	1 optional lock status	contacts 1 NO auxiliary	Figure 2		
KL1-SS-220308	retired								contact for actuátor tongue (key) status			

Dimensions mm[in]

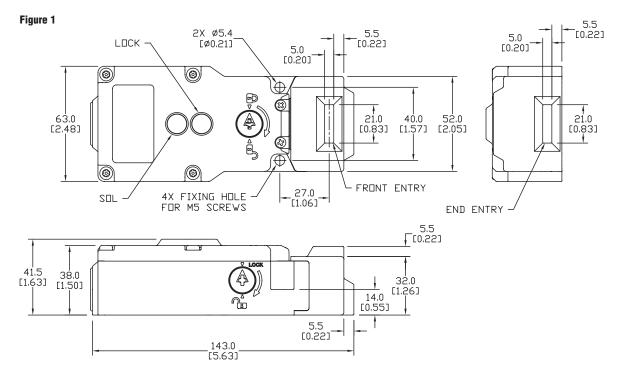
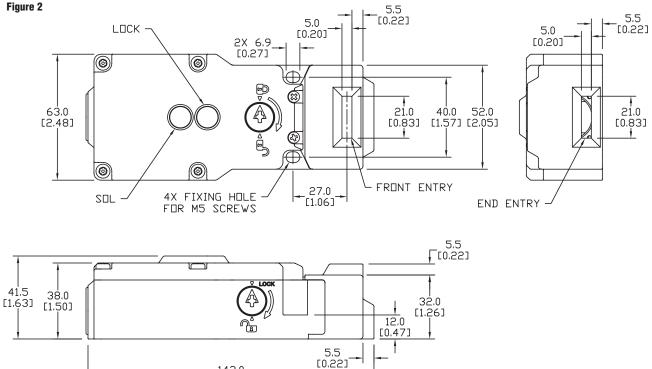


Figure 2



143.0 [5.63]

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

anti-tamper keyed manual release on lid and side (KLT-SS)Includes one tamper-proof T20 Torx bit

• Slotted manual release on lid and side (KLTM) or

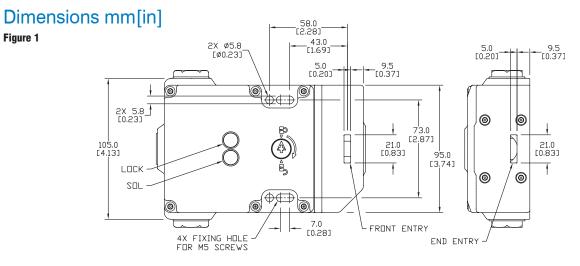
• Purchase actuating key and anti-tamper manual release key separately (See accessories)

See electrical specifications later in this section.





	IDEM KLTM/KLT-SS Series Solenoid Interlock Safety Switches																				
Part Number	Price	Body Material	Head Material	Weight (lbs)	Actuator Travel for Positive Opening	Holding Force	Solenoid Voltage	LED	Contact Configuration	Dimensions											
<u>KLTM-450002</u>	\$208.00	Die-cast	316 stainless	2.7	10	2000N	24 VAC/DC	1 solenoid status 1 optional lock status	4 NC safety contacts 1 NO auxiliary contact for actuator tongue (key) status	Figure 1											
<u>KLTM-450005</u>	\$210.00	aluminum	steel	2.6	- 10mm		110VAC														
<u>KLTM-450008</u>	retired		No replacement available																		
<u>KLT-SS-451002</u>	\$385.00	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	316 stainless	4.7			24 VAC/DC			Figure 2
<u>KLT-SS-451005</u>	\$394.00	steel	steel	4./			110VAC														
<u>KLT-SS-451008</u>	retired	No replacement available																			



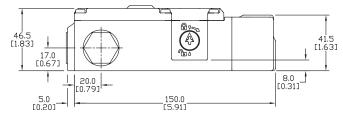
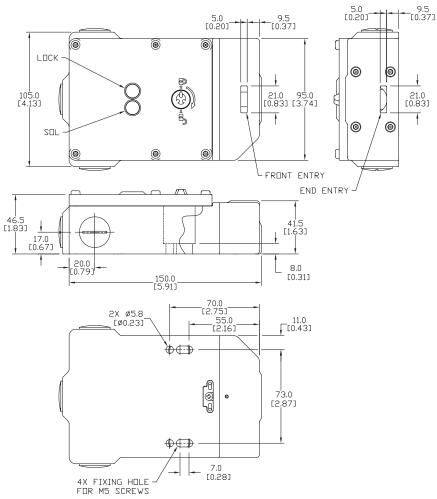


Figure 2

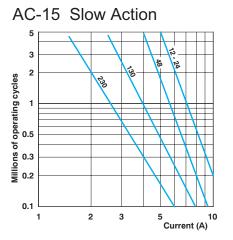
Figure 1



IDEM Solenoid Interlock Safety Switches Specifications

Solenoid Inte	rlock Safety Switches Speci	fications				
	KLP/KLM/KL3-SS	KL1-P/KL1-SS	KLTM/KLT-SS			
Safety	Classification and Reliability Da	ata				
Switching Reliability (B10d)		2.5M operations at 100mA load				
EN 954-1	U	o to Category 4 with Safety Relay				
ISO 13849-1	Up to Pl	e depending upon system architectu	re			
EN 62061	Up to SI	L3 depending upon system architectu	re			
Safety Data - Annual Usage	8 cycles	per hour / 24 hours per day / 365 day	ys			
MTTF _d		356 years				
Agency Approvals		cULus E258676, CE				
Electi	rical and General Specification	S				
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, N	10.7 Nr Ax conductor 1mm ² , 16AWG; 0.7 Nr	n torque			
LED2 Voltage		24VDC				
Solenoid Wattage		12W				
Solenoid Voltage	24 VAC/VDC or 110VAC or 230VAC					
Max. Switching Current		24VDC, 6A @ 120VAC, 3A @ 240VD xiliary contacts max 230V@0.5A	C (720VA Break);			
Maximum Approach/Withdrawal Speed	1000 mm/s	600 n	nm/s			
Enclosure Protection	IP67 (IP69K on all models with both stainless steel head and body)					
Operating Temperature	-25°C - 55°C [-13°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) (0.74 lb-ft) (1.11 lb-ft) (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)			

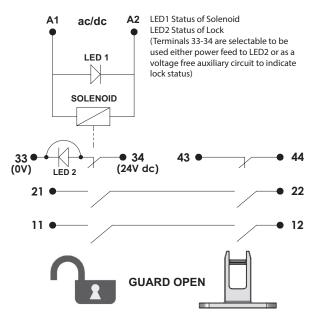
Electrical Durability (according to IEC 947-5-1)



IDEM Solenoid Interlock Travel Charts

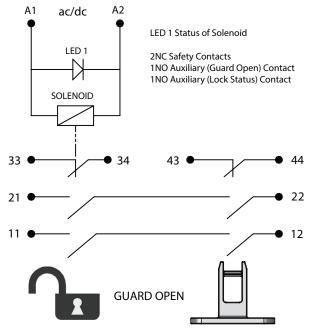
Contacts Configuration

KLP



GUARD OPEN

KL1-P/KL1-SS (Standard)



Travel Charts

Actuator Insert	ion	6.0	Ę	5.0	0 r	nm
11/12	Open					
21/22	Open					Contact Open
33/34				Ope	en	Contact Closed
43/44				Ор	en	

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

KL1-P/KL1-SS (Extra LED2)

KLM/KL3-SS/KLTM/KLT-SS

ac/dc

LED 1

SOLENOID

A2

• 34

(24V dc)

• 41

31

LED 1 Status of Solenoid

(Terminals 33-34 are selectable to be used either power feed to LED2 or as

44

22

12

a voltage feed to LED2 or as a

voltage free auxiliary circuit to

LED2 Status of Lock

indicate lock status.)

43 •

42 🗩

32 🤵

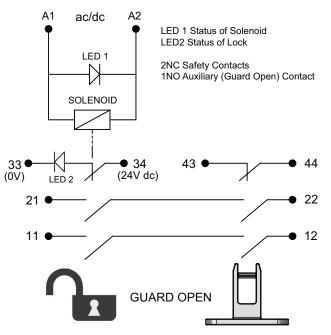
A1

33

21 •

11

(0V)



IDEM Solenoid Interlock Accessories

Actuators

• 4 available keys

• All keys are 316 stainless steel

Flexible key options available

Lockout actuator available















140123

	IDEM Interlock Safety Switch Actuator Tongue (Keys)									
Part Number	Price	Description	Use with:		Weight (lbs)	Minimum Entry Radius	Dimensions			
			KLP/KLM/KL1/KLTM	KL3-SS/KLT-SS						
<u>140107</u>	\$8.25	40mm mounting hole spacing, 90 degree stainless steel key/ mounting tab	~	V	0.07	175mm	Figure 1			
<u>140108</u>	\$8.25	20mm mounting hole spacing, straight stainless steel key with plastic stop	v	V	0.07	175mm	Figure 2			
<u>140110</u>	\$29.50	40mm mounting hole spacing, stainless steel key with black- painted aluminum flexible mounting tab	v	V	0.16	100mm	Figure 3			
<u>140111</u>	\$59.00	40mm mounting hole spacing, stainless steel key with mirror polished stainless steel flexible mounting tab	V	v	0.22	100mm	Figure 3			
<u>140130</u>	\$29.00	IDEM lockout actuator, stainless steel, for use with all IDEM tongue (key) switches	v	v	0.10	NA	Figure 4			
<u>140123</u>	\$14.50	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

GBL-1-210001





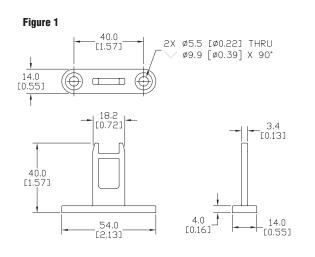
GB - 210005

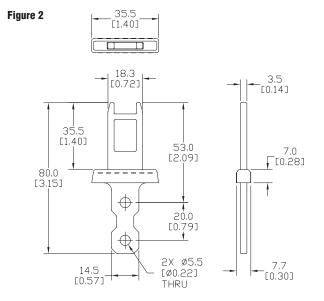
GB - 210006

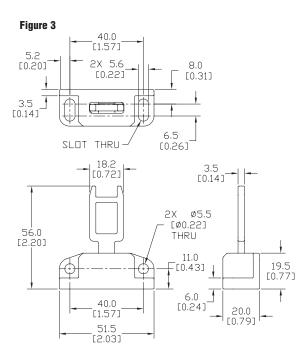


	-	IDEM Interlock Safety Switch Acce	ssuries			1
Part Number			Use with:		Weight (lbs)	Dimensions
	Price	Description	KLP/KLM	GBL-1		
<u>GBL-1-210001</u>	\$103.00	IDEM gate bolt, left hand version, for use with KLP and KLM series safety switches. Includes actuating tongue (key).	V		4.12	Figure 6
GBL-1-210002	\$103.00	IDEM gate bolt, right hand version, for use with KLP and KLM series safety switches. Includes actuating tongue (key).	V		4.12	Figure 7
GB-210005	\$13.50	IDEM rear escape handle, for use with GBA-1 and GBL-1 series gate bolts		V	0.1	Figure 8
<u>GB-210006</u>	\$13.50	IDEM spring loaded catch, for use with GBA-1 and GBL-1 series gate bolts		~	0.08	Figure 9

IDEM Solenoid Interlock Safety Accessories

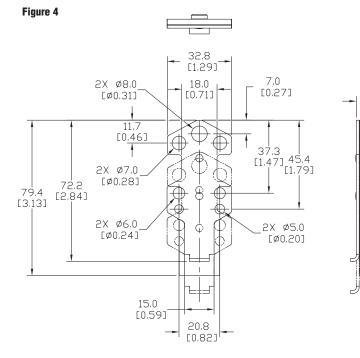


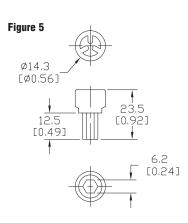


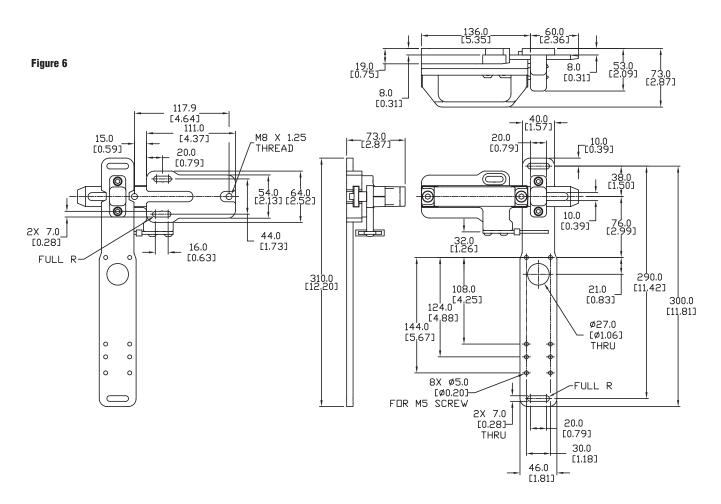


IDEM Solenoid Interlock Safety Accessories

____4.6 _______

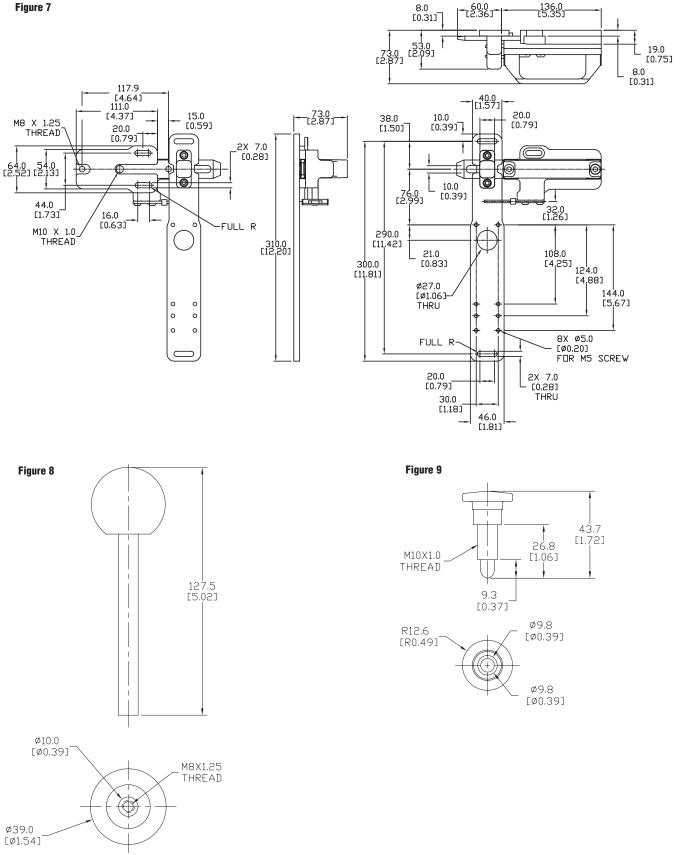






IDEM Solenoid Interlock Safety Accessories

Figure 7



tESC-85 Safety Electrical Components

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.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.