

Guard Locking Switch Metal Type: SAMLOCK KLM-P2L

FEATURES:

Energise solenoid to lock.

Spring to unlock when solenoid is de-energised.

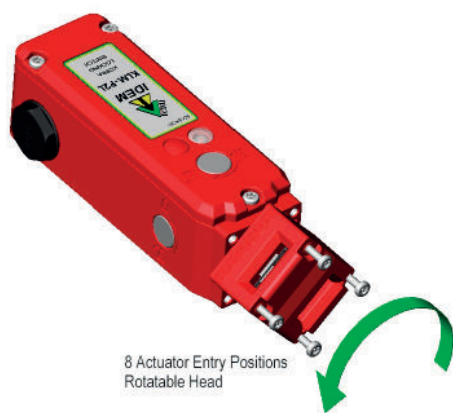


FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1
 High Functional Safety to ISO13849-1
 Die Cast Metal Housing (painted red)
 Stainless Steel Head version available
 Connects to most Safety Relays to give up to PLe Cat.4
 Quick Connector version available for ease of installation
 Machine safety contacts open when power is released
 LED Status of Solenoid Power

2NC Safety Circuits:

1NC 1NO Auxiliary circuits - Actuator/Door Status



INSERTION OF ACTUATOR

	6.0	5.0	0mm
11/12	Open	Solenoid Energised	
21/22	Open	Solenoid Energised	
33/34	Open	Tongue Inserted	
43/44		Open	Tongue Inserted

For all IDEM Power to Lock switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted and power is applied to the solenoid.



Solenoid Locking Interlock Safety Switch featuring POWER TO LOCK with Guard Holding to 3000N (300Kg) (F1Max)

The KLM-P2L Series Guard Locking switches have a slim metal body design and have been developed with a holding force of 3000N to keep large guard doors closed until hazards have been removed.

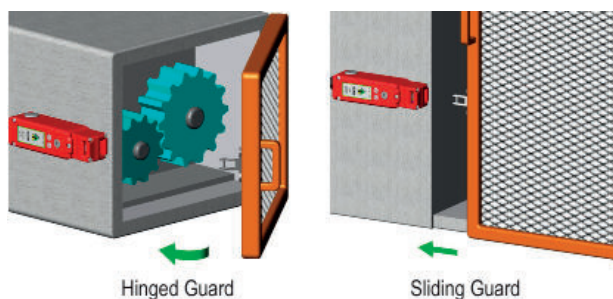
They are Power to Lock - Spring to Unlock - suitable for applications where immediate unlocking is required at removal or loss of power. (They are NOT suitable for machines with a running down time).

The rugged die cast body provides a durable robust hold closed interlock protection and is available with Stainless Steel Heads for extra durability. Flexible actuators are available to aid where some alignment is a problem.

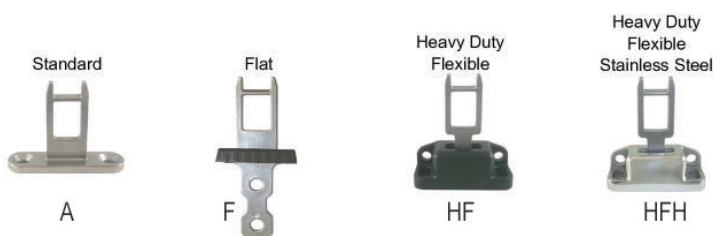
IP67 enclosure protection is maintained by a double seal lid gasket design and metal fixings.

They have a slim profile and are designed to fit on 50mm (2") frame sections or to applications where space is restricted.

The head will rotate to provide up to 8 actuator entry positions.



ACTUATOR OPTIONS (see p100)



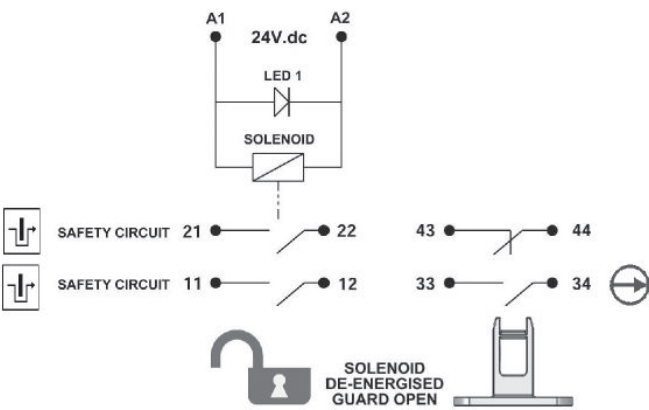
Standards: ISO14119 EN60947-5-1 EN60204-1
 ISO13849-1 EN62061 UL508

Safety Classification and Reliability Data:

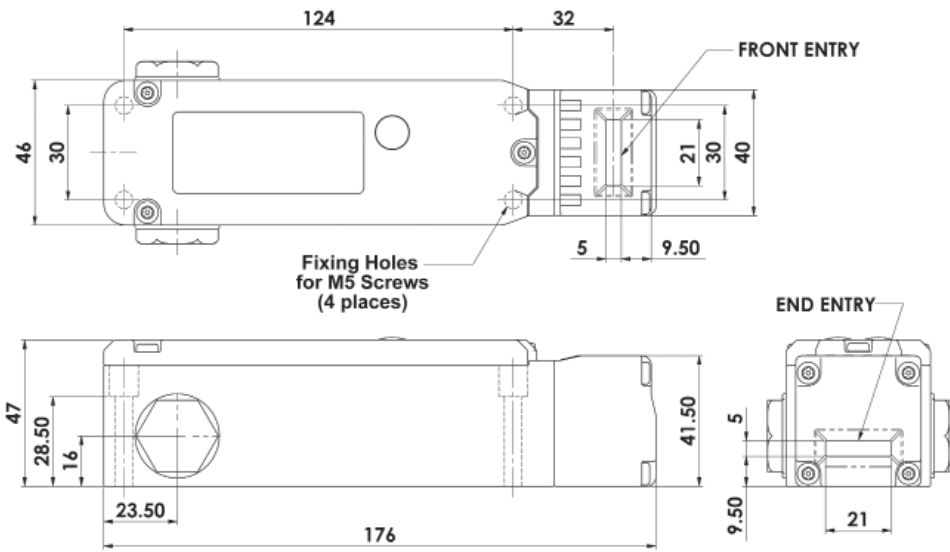
Mechanical Reliability B10d	2.5 x 10 ⁶ operations at 100mA load
ISO13849-1	Up to PLe depending upon system architecture
EN62061	Up to SIL3 depending upon system architecture
Safety Data – Annual Usage	8 cycles per hour/24 hours per day/365 days
	MTTFd 356 years
Solenoid Voltage (by Sales Number)	24Vdc
Solenoid Wattage	12W (Inrush 50W)
Utilization Category	AC15 A300 3A
Thermal Current (Ith)	5A
Rated Insulation/Withstand Voltages	600Vac/2500Vac
Travel for Positive Opening	10mm
Actuator Entry Minimum Radius	175mm Standard 100mm Heavy Duty
Maximum Approach/Withdrawal Speed	600mm/s
Holding Force	F1Max 3000N Fzh 2307N
Body Material	Die Cast (painted red)
Head Material	Die Cast (painted red) or Stainless Steel 316
Enclosure Protection	IP67
Operating Temperature	-25C +40C
Vibration	IEC 68-2-6 10-55Hz + 1Hz
	Excursion 0.35mm 1 octave/min
Conduit Entry	Various (See Sales Number)
Fixing	4 x M5

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SCHEMATIC CIRCUIT:



DIMENSIONS:



RELATED PRODUCTS & ACCESSORIES (see p100-101 and Gate Bolts Section 6)

Quick Connect (QC) M23 12 Way Male Plug Connector Length 24mm Pin View from Switch		Switch Circuit
1	3	A1 A2
4	6	11/12
7	8	21/22
2	5	43/44
9		33
10		34
12		Earth

GATE BOLT LOCK
Rugged metal construction, easy to install on sliding or hinged guards.
Holes for fitting padlocks during maintenance.
Painted yellow and comes with plastic handle and flat actuator.

Maintenance Lockout Actuator
Fits to switch aperture during maintenance and provides multiple padlock holes.

FEMALE QC LEADS	LENGTH	SALES NUMBER
M23 12 Way	5m (15ft)	140143
M23 12 Way	10m (30ft)	140144

SALES NUMBER	SOLENOID VOLTAGE	M20	1/2" NPT	QC M23
Kobra KLM-P2L Switch	24V dc	202021	202022	202023
To order Switch with Actuator				
Kobra Actuator	Standard	Add A to Sales Part Number		
Kobra Actuator	Flat	Add F to Sales Part Number		
Kobra Actuator	Heavy Duty Flexible	Add HF to Sales Part Number		
Kobra Actuator	S/Steel Heavy Duty Flexible	Add HHF to Sales Part Number		
Stainless Steel Head Version		Add SS to Sales Part Number		