

Guard Locking Switch Stainless Steel: KL3-SS-P2L

FEATURES:



IP69K

POWER TO LOCK

Energise solenoid to lock.

Spring to unlock when solenoid is de-energised.

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

The KL3-SS-P2L Series Guard Locking switches feature a slim, stainless steel 316 body, engineered with a holding force of 3000N to securely close large guard doors until all hazards have been eliminated.

These switches operate on a Power to Lock - Spring to Unlock principle, making them ideal for applications requiring immediate unlocking upon power loss or removal. (They are not suitable for machines with a run-down time.)

The durable Stainless Steel 316 housing ensures a strong and reliable hold, and flexible actuators are available to accommodate situations where alignment may be challenging.

IP69K enclosure protection is achieved through a double-seal lid gasket design and metal fixings, ensuring robustness in harsh environments.

With a slim profile, these switches are designed to fit on 50mm (2") frame sections or in applications where space is limited.

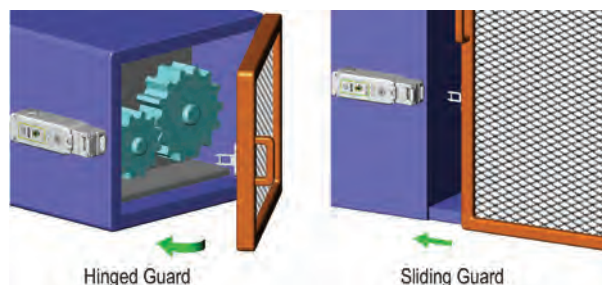
The head can rotate to provide up to 8 actuator entry positions, offering versatile installation options.

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1
High Functional Safety to ISO13849-1
Stainless Steel 316 Housing and fittings
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:

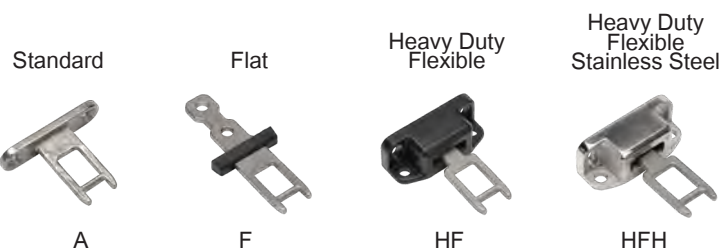
1NC 1NO Auxiliary circuits - Actuator/Door Status



ACTUATOR OPTIONS (see p154)



8 Actuator Entry Positions
Rotatable Head



Standards: ISO14119 EN60947-5-1 EN62024-1
ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d
ISO13849-1
EN62061
Safety Data – Annual Usage
Up to 2.5 x 10⁶ operations at 100mA load
Up to PLe depending upon system architecture
Up to SIL3 depending upon system architecture
8 cycles per hour/24 hours per day/365 days
MTTFd 356 years

Technical Specification:

Solenoid Voltage (by Sales Number) 24V dc
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 Stainless Steel 316
Enclosure Protection IP69K
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

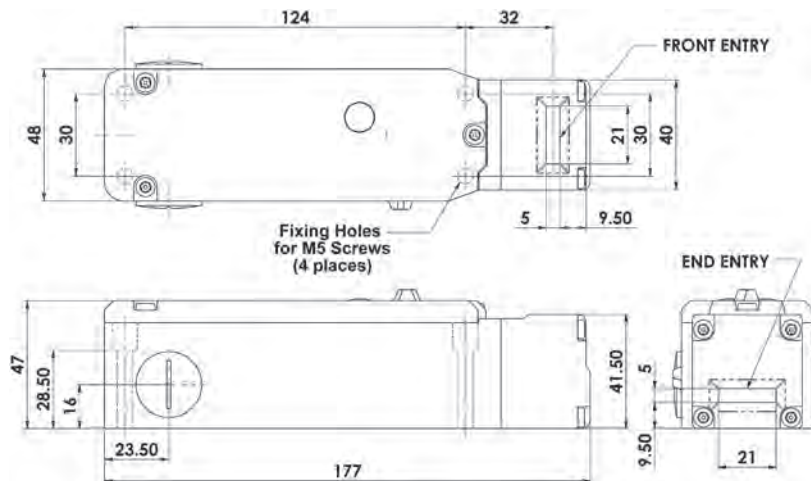
INSERTION OF ACTUATOR

	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 switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted.

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DIMENSIONS:

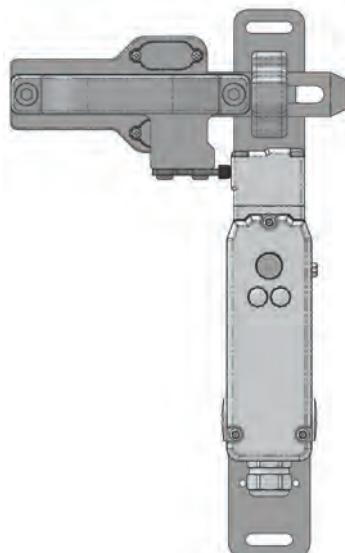


RELATED PRODUCTS & ACCESSORIES (see p150)

GATE BOLT LOCK

Rugged metal construction, easy to install on sliding or hinged guards.

Holes for fitting padlocks during maintenance.

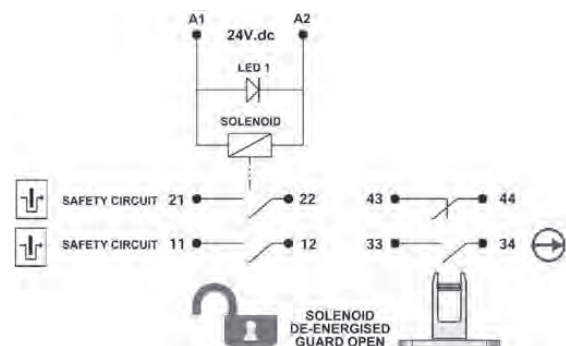


MAINTENANCE LOCKOUT ACTUATOR



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

SCHEMATIC CIRCUIT:



Connector Rated IP67



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

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

STAINLESS STEEL 316 GLAND	SALES NUMBER
M20	140120
1/2" NPT	140121



IDEM recommend using our Stainless Steel 316 Gland with this switch.

SALES NUMBER	SOLENOID VOLTAGE	M20	1/2" NPT	QC M23
Kobra KL3-SS-P2L	24V dc	205021	205022	205023
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 HFH	to Sales Part Number	
Stainless Steel Head Version		Add SS	to Sales Part Number	