

## Guard Locking Switch Metal Type: SEZYLOCK KLP-P2L

## FEATURES:



Energise solenoid to lock.

Spring to unlock when solenoid is de-energised.



POWER TO LOCK

**Solenoid Locking Interlock Safety Switch featuring POWER TO LOCK with Guard Holding up to 1800N (180Kg) (F1Max)**

The KLP-P2L Series Guard Locking switches have a slim plastic body design and have been developed with a holding force of 1800N to keep medium 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 high specification plastic body has a high resistance to chemical and washdown solutions, and the Stainless Steel Head provides a durable robust protection of the cam interlock.

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.

## FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1

High Functional Safety to ISO13849-1

High Specification Polyester Housing

Stainless Steel 316 Head

Connects to most Safety Relays to give up to PLe Cat.4

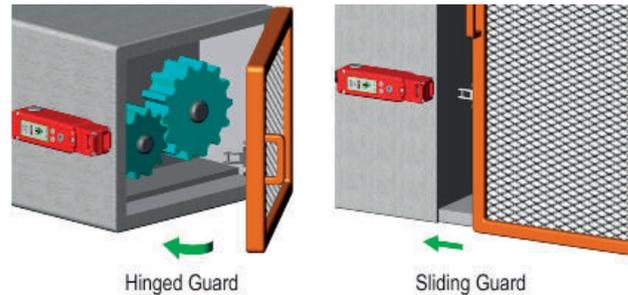
Quick Connector version available for ease of installation

Machine safety contacts open when power is released

LED Status of Solenoid Power

2NC Safety Circuits:

1NC 1NO Auxiliary circuits - Actuator/Door Status



Hinged Guard

Sliding Guard

8 Actuator Entry Positions  
Rotatable Head

## 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.

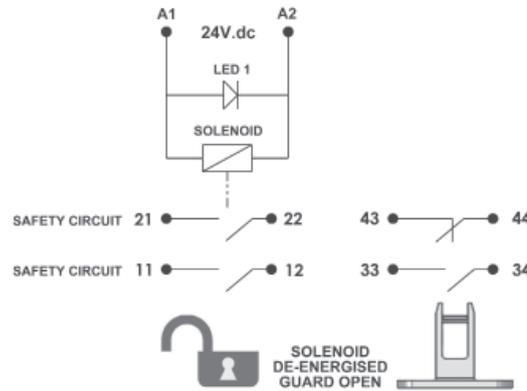
## ACTUATOR OPTIONS (see p76)



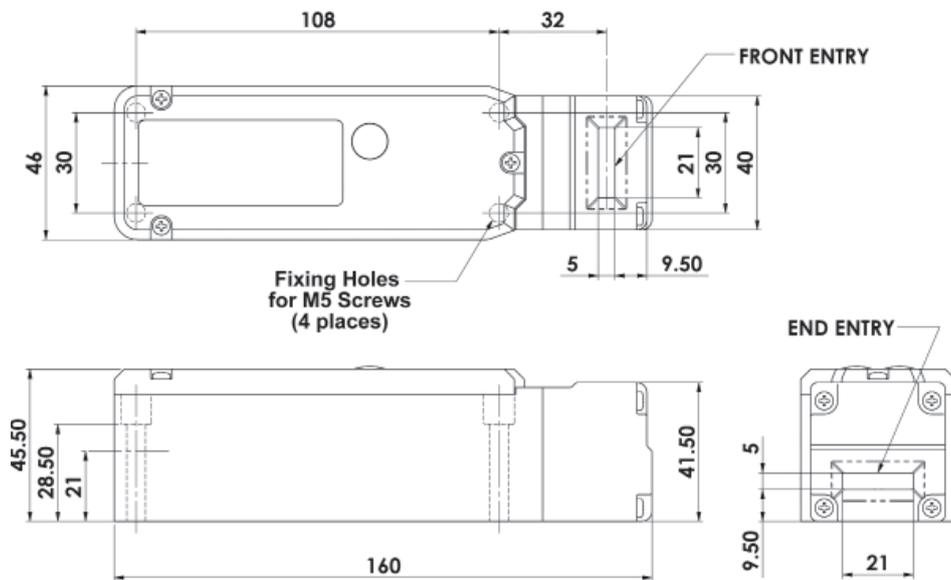
<b>Standards:</b>	ISO14119 EN60947-5-1 EN6204-1 ISO13849-1 EN62061 UL508
<b>Safety Classification and Reliability Data:</b>	Mechanical Reliability B10d ISO13849-1 EN62061 Safety Data – Annual Usage PFHd Proof Test Interval (Life) MTTFd Solenoid Voltage (by Sales Number) Solenoid Wattage Utilization Category Thermal Current (Ith) Rated Insulation/Withstand Voltages Travel for Positive Opening Actuator Entry Minimum Radius Maximum Approach/Withdrawal Speed Holding Force Body Material Head Material Enclosure Protection Operating Temperature Vibration Conduit Entry Fixing
	2.5 x 10 <sup>6</sup> 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 3.44 x 10 <sup>15</sup> 35 years 356 years 24Vdc 12W (Inrush 50W) AC15 A300 3A 5A 600Vac/2500Vac 10mm 175mm Standard 100mm Heavy Duty 600mm/s F1Max 1800N Fzh 1384N Polyester Stainless Steel 316 IP67 -25C +40C IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min Various (See Sales Number) 4 x M5

# Guard Locking Switch Metal Type: SEZYLOCK KLP-P2L

## SCHEMATIC CIRCUIT:



## DIMENSIONS:



## RELATED PRODUCTS & ACCESSORIES (see p70-75)



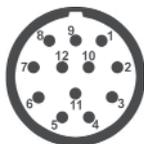
Fits to switch aperture during maintenance and provides multiple padlock holes.

### 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.



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



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 KLP-P2L Switch	24V dc	201021	201022	201023
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	