GUARD LOCKING SAFETY INTERLOCK SWITCHES

Guard Locking Switch Metal Type: SAMLOCK KLM

FEATURES:









Solenoid Locking Interlock Safety Switch featuring Guard Holding up to 2000N (200Kg) (F1Max)

The KLM Series Guard Locking safety switches have rugged Die Cast housings and have been developed with a high holding force of 2000N to keep medium to large guard doors closed until hazards have been removed.

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.

They have 2 independent contact blocks to individually monitor the Lock Status and Door Status.

An LED is available to indicate Lock Status.

Versions are available offering a Rear Manual Escape Release.

Accessories include a Sliding Handle Bolt to provide holding of heavy or hinged doors and lock off actuators.

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 High Functional Safety to ISO13849-1 Stainless Steel 316 Head version available Connects to most Safety Relays to give up to PLe Cat.4 Quick Connector version available for ease of installation

4NC Safety Circuits:

2 Solenoid/Lock 2 Actuator/Guard

1NO Auxiliary Circuit:

1NO Auxiliary Circuit:

For indication of Actuator Status (guard open)

For Lock Status (selectable with LED2)



8 actuator entry

INSERTION OF ACTUATOR

positions

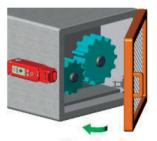
rotatable head

6.0 5.0

0mm

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 actuator inserted.

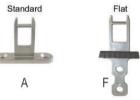


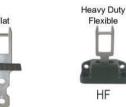


Hinged Guard

Sliding Guard

ACTUATOR OPTIONS (see p76)







Standards:

PFHd

Safety Classification and Reliability Data: Mechanical Reliability B10d ISO13849-1 EN62061 Safety Data - Annual Usage

> Proof Test Interval (Life) MTTFd Solenoid Voltage (by Sales Number) Solenoid Wattage

LED 2 Supply Voltage 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 ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL508

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 3.44 x 10-35 years 356 vears

24V ac/dc or 110Vac or 230Vac 12W

24Vdc AC15 A300 3A

600Vac/2500Vac 10mm

175mm Standard 100mm Heavy Duty 600mm/s

F1Max 2000N Fzh 1538N

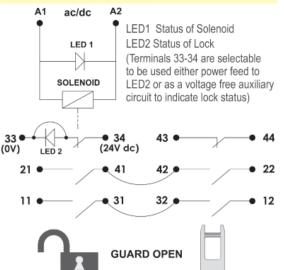
Die Cast (painted red) Die Cast (painted red) or Stainless Steel 316

IP67 -25C +50C

IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min Various (See Sales Number) 4 x M5

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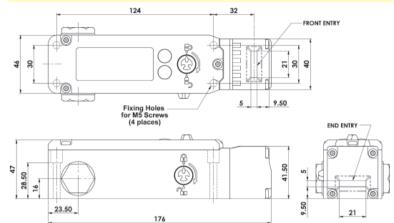
SCHEMATIC CIRCUIT:











RELATED PRODUCTS & ACCESSORIES (see p70-75)





2 colour LED (3 wires) Steady Red and Steady Green. Fits to conduit entry and provides option for LED indication based upon switch contacts.



Fits to switch aperture during

Maintenance

Lockout

Actuator

maintenance and provides multiple padlock holes.





Quick Connect (QC) M23 12 Way Male Plug Connector Length 24mr 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

Flat

Heavy Duty Flexible

S/Steel Heavy Duty Flexible

Stainless Steel Head Versions

REAR MANUAL RELEASE VERSION

Rear push button manual release version provides a means of escape

Add F

Add HF

to Sales Part Number

to Sales Part Number

Add HFH to Sales Part Number

Add SS to Sales Part Number

M23 12 Way	10m (30ft)	from inside the guarded area.				12		Earth		
	STANDARD MANUAL RELEASE			MANUAL RELEASE		NO MANUAL RELEASE				
	LID AND SIDE		LID ONLY (Not SIDE)		FITTED (Blanked)					
SALES NUMBER	SOLENOID VOLTAGE	M20	1/2" NPT	QC M23	M20	1/2" NPT	QC M23	M20	1/2" NPT	QC M23
Kobra KLM Switch	24V ac/dc	202001	202002	202003	202401	202402	202403	202301	202302	202303
Kobra KLM Switch	110V ac	202004	202005	202006	202404	202405	202406	202304	202305	202306
Kobra KLM Switch	230V ac	202007	202008	202009	202407	202408	202409	202307	202308	202309
Kobra Actuator	Standard				Add A	to Sales Par	t Number			

Ordering Examples:

Kobra Actuator

Kobra Actuator

Kobra Actuator