KOBRA - Stainless Steel Switch Type: HYGIECAM MK1-SS

FEATURES:

IDEM's new MK1-SS Compact Safety Interlock switches are designed to provide position interlock detection for small moving guards.

They are designed to fit to the leading edge of sliding, hinged or lift off machine guards.

Mirror polished surface finish to RA10 makes the MK1-SS ideally suited to the food processing and packaging environments.

The rugged Stainless Steel actuator profile is designed to match a cam mechanism to provide a positively operated not easily defeatable interlock mechanism.

The compact body, 30mm wide with 22mm fixing centres and rotatable head make them easy to install where space is restricted.

The rotatable heads have dual actuator entry positions to give up to 8 different entry positions.

A Plastic Flexible Actuator is available for tight radius guards.

Contact blocks are replaceable.

CONTACT BLOCK:



FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 High Functional Safety to ISO13849-1 3 pole Connects to most Safety Relays to give up to PLe Cat.4 Industry Standard Fitting:

98mm long 30mm wide 22mm fixing



Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
1 7
6 5
4 3
8

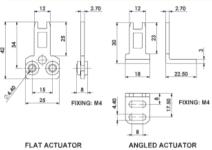
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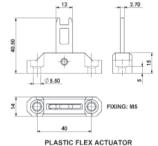




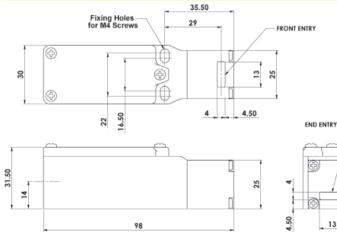


ACTUATOR DIMENSIONS:





PRODUCT DIMENSIONS:



		SALES NUMBER		
PRODUCT	CONTACTS	M20	1/2" NPT	QC M12 8 WAY
MK1-SS Switch	2NC 1NO	224001	224002	224003
Actuator	Flat	Add F to Sales Number		er
Actuator	Angled	Add A to Sales Number		er
Actuator	Plastic Flexible	Add PF to Sales Number		ber

FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102

Gold Plated Contacts available for low power circuits (5V 5mA). Add GC to Sales Number e.g. 224001-GC

CONTACT OPERATION AT WITHDRAWAL OF ACTUATOR:

2NC 1NO	4.5	5 4	.0	0n	nm
11/12	Open				
21/22	Open				
33/34			Open		
33/34			Open		



Stainless Steel Guide: To assist with guard alignment IDEM

recommend that you use the Stainless Steel Guide accessory (supplied with two x M3 stainless steel screws).

SALES NUMBER - MK1-SS STAINLESS STEEL GUIDE 140179-SS

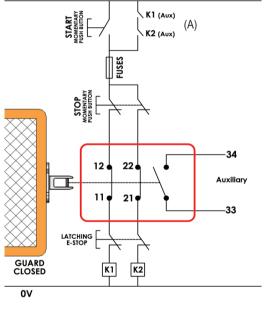
The head can be rotated to give 8 actuator entry positions.

Designed with a removable lid to fit replaceable contact blocks.

For extra durability flexible actuators are available.

APPLICATION EXAMPLE

24V dc



Guard Door Interlocked - Dual Channel (Non Monitored)

This system shows interlock switch circuits 11-12 and 21-22 configured to allow direct feed to contactor coils K1 and K2.

This provides Dual Channel wiring and a check of the contactor feedback circuits through the auxiliary contacts (A) of K1 and K2.

Opening the interlock switch or depressing the Emergency Stop will isolate power to the contactor coils.

Re-start can only occur providing the Guard is closed, and the Emergency Stop is reset

The system is shown with the Machine Stopped, the Guard Closed and the contactors able to be energised.



Hinged Guard

Standards: ISO14119 EN60947-5-1 EN60204-1

ISO13849-1

EN62061

Safety Classification and Reliability Data:

Mechanical Reliability B10d2.5 x 106 operations at 100mA load

Safety Data - Annual Usage

Travel for Positive Opening

Actuator Entry Minimum Radius Maximum Approach/Withdrawal Speed

Rated Insulation/Withstand Voltages

Utilization Category

Thermal Current

Body Material

Conduit Entry

Mounting Position

Vibration

Fixing

Enclosure Protection

ISO13849-1 EN62061 UL508

150mm Standard 100mm Flexible

IEC 68-2-6 10-55Hz + 1Hz

Excursion 0.35mm 1 octave/min

Various (See Sales Number)

Stainless Steel 316 (mirror polished finish)

MTTFd 356 years

AC15 A300 3A

600Vac/2500Vac

10A

6mm

600mm/s

IP69K

2 x M4

Anv

Up to PLe depending upon system architecture

Up to SIL3 depending upon system architecture

8 cycles per hour/24 hours per day/365 days



Sliding Guard

Lift Off Guard

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

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



SECTION 3

KOBRA - TONGUE OPERATED SAFETY INTERLOCK SWITCHES