GUARD LOCKING SAFETY INTERLOCK SWITCHES

Guard Locking Switch Stainless Steel Type: HYGIELOCK KL4-SS

FEATURES:







Solenoid Locking Interlock Safety Switch featuring Guard Holding up to 3000N (300Kg) (F1Max)

The KL4-SS Series Guard Locking switches have a rugged Stainless Steel 316 body and have been developed with a holding force of 3000N to keep medium to large guard doors closed until hazards have been removed.

They are designed to cope with the rigorous applications of the Food Processing, Packaging, Pharmaceutical and Petro-Chemical Industries.

They have IP69K enclosure protection and can be high pressure hosed with detergent at high temperature.

With a slim body design of under 50mm wide they can be fitted to 50mm (2") frame sections or to applications where space is restricted. The Head will rotate to provide up to 8 actuator entry positions.

2 manual override points are provided (this is achieved by using an anti-tamper key).

CONTACTS/LED DIAGNOSTICS:

A unique mechanical design featuring 2 independent contact blocks gives a high function and diagnostic specification.

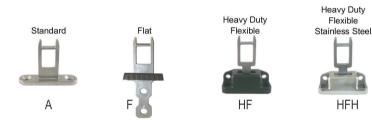
4NC Safety Contacts

1NO Auxiliary Contact (Guard Open)

LED1 Solenoid Power

LED2 Lock Status indication or 1NO Auxiliary Contact (Lock Open)

ACTUATOR OPTIONS (see p100)





91**9** 88 6 19



Hinged Guard

Sliding Guard

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 High Functional Safety to ISO13849-1 Stainless Steel 316 Housings Connects to most Safety Relays to give up to PLe Cat.4 IP69K suitable for SIP and CIP Processes Will fit on 50mm frame sections or where space is restricted 4NC Safety Contacts independently selectable

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

Safety Classification and Reliability Data:

Mechanical Reliability B10d 2.5 x 106 operations at 100mA load

ISO13849-1

Safety Data - Annual Usage

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

24V ac/dc or 110Vac or 230Vac Solenoid Voltage (by Sales Number)

Solenoid Wattage 12W LED2 Supply Voltage 24Vdc Utilization Category

AC15 A300 3A Thermal Current (lth) 5A

600Vac/2500Vac

Rated Insulation/Withstand Voltages Travel for Positive Opening 10mm 175mm Standard 100mm Heavy Duty Actuator Entry Minimum Radius

Maximum Approach/Withdrawal Speed 600mm/s Holding Force

F1Max 3000N Fzh 2307N Stainless Steel 316

Body Material Enclosure Protection IP69K IP67 Operating Temperature -25C +50C

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

INSERTION OF ACTUATOR

6.0 5.0

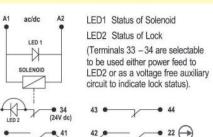
0mm

11/12	Open			
21/22	Open			
33/34			Open	
43/44		Open		

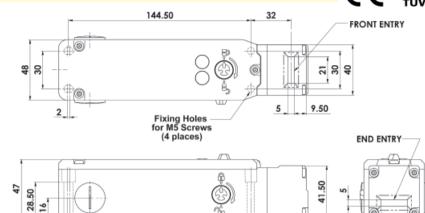
For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted.

Guard Locking Switch Stainless Steel Type: HYGIELOCK KL4-SS

SCHEMATIC CIRCUIT & DIMENSIONS:



GUARD OPEN



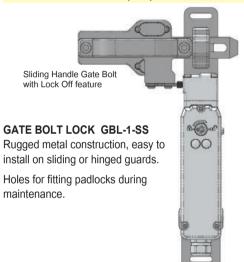
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Quick Con M23 12 Way Connector L Pin View fr	/ Male Plug ength 24mm	Switch Circuit				
1	3	A1	A2			
4	6	11/1	2			
7	8	21/2	22			
2	5	43/4	14			
9)	33				
1	0	34				
Fa	rth	12				

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



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



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



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			



MANUAL RELEASE

LID ONLY (Not SIDE)

24V Solenoid M20 Conduit Standard Manual Release S/Steel Heavy Flexible Actuator: Sales Number: 209301-HFH

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

NO MANUAL RELEASE

FITTED (Blanked)

		dlfines			181111-8		ť	define		
SALES NUMBER	SOLENOID VOLTAGE	M20	1/2" NPT	QC M23	M20	1/2" NPT	QC M23	M20	1/2" NPT	QC M23
Kobra KL4-SS Switch	24V ac/dc	209001	209002	209003	209401	209402	209403	209301	209302	209303
Kobra KL4-SS Switch	110V ac	209004	209005	209006	209404	209405	209406	209304	209305	209306
Kobra KL4-SS Switch	230V ac	209007	209008	209009	209407	209408	209409	209307	209308	209309
Kobra Actuator	Standard				Add A	to Sales Par	t 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 Pa	rt Number			
Momentary Request Push Button (fitted to Lid) x Changeover Contact Common - Closed/Open		Add PB to Sales Part Number								
Manual Release Key (order separately - not supplied with switches)			id M20 Cond		Manual Releas				-F s Number: 2093	305-A-PB

STANDARD MANUAL RELEASE

LID AND SIDE

Sales Number: 140123