KOBRA - Tongue Operated Switch Type: KP

FEATURES:



IDEM KP Interlock switches are designed to provide position interlock detection for moving quards.

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

They provide a forced disconnect of the safety contacts at the withdrawal of the actuator and have an antitamper not easily defeatable mechanism.

The head can be rotated to give 4 actuator entry positions. For extra durability, Flexible Actuators and Stainless Steel head versions are available.

Contact blocks are replaceable with optional explosion proof versions. They are sealed to IP67 and survive most wash down solutions due to the high specification materials.

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 High Functional Safety to ISO13849-1 3 pole, 4 pole or Explosion Proof Contact Blocks Stainless Steel Head version available Connects to most Safety Relays to give up to PLe Cat.4 Industry Standard Fitting: 52mm wide 98mm long 40mm fixing

Lift Off Guard

3NC 1NO

- 44

1 32

5 9 2

33

43

CONTACT BLOCK OPTIONS:

3NC

34 -31-32 -31-

11

Hinged Guard

22 -21-

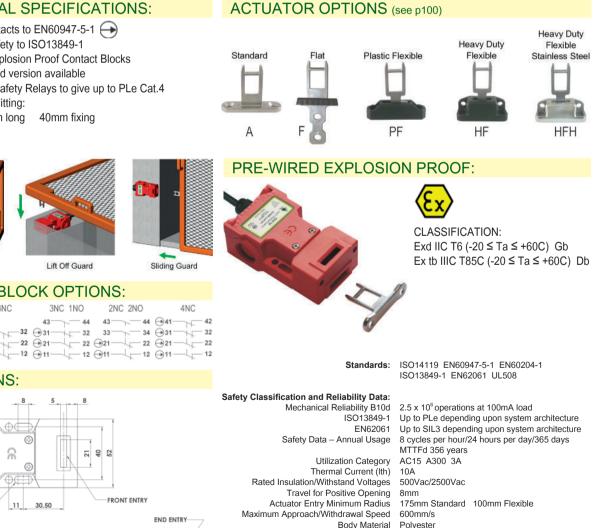
DIMENSIONS:

Fixing Holes

⊕11-L-12 ⊕11-L-

2NC 1NO

⊕ 21-



Head Material

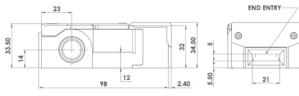
Conduit Entry

Vibration

Fixing

Enclosure Protection

Operating Temperature



30.50

ECTION 3

Polvester Polyester or Stainless Steel 316 IP67 -25C +80C IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min Various (See Sales Number) 2 x M5

actuator entry positions.

Steel head.

Designed with a hinged lid to fit

Flexible actuators are available and

the KP is available with a Stainless

replaceable contact blocks.

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CONTACT OPERATION AT WITHDRAWAL OF ACTUATOR

2	2NC 1NO	6.8	6.8 6.0		0	mm
Γ	11/12	Open				
Γ	21/22	Open				
	33/34			Open		

3NC 1NO	6.8	6	.0	0
11/12	Open			
21/22	Open			
31/32	Open			
43/44			Onen	

)mm	4NC	6	.0
]	11/12	Open	
]	21/22	Open	
	31/32	Open	
	41/42	Open	
_			

0mm

CE τÜV 2NC 2NO 6.8 6.0 0mm

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

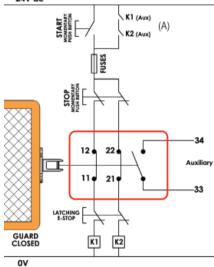
ACCESSORIES (see p100-101)



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

APPLICATION EXAMPLE







Flat Actuator supplied with 300mm (12") chain. Can be used where poor alignment exists and provides manual insertion of actuator by operator.

Beacon 2 colour LED (3 wires) Steady Red

2 Colour

LED Conduit

and Steady Green. Fits to conduit entry and provides option for LED indication based upon switch contacts.

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.

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FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102
1/2" UNF	2m (6ft)	140141
1/2" UNF	5m (15ft)	140142
		$\begin{array}{c} 2\\3\\4\\5\end{array}$
Quick Connect (QC) 1/2" UNF 6 Way Male (connector length 14mm) Pin View from Switch	Switch Circuit	Quick Connect (QC) M12 8 Way Male (on Flying Lead 250mm) Pin View from Switch
1 5	11/12	1 7

21/22

33/34 or 31/32

41/42 or 43/44

6 5

4 3

SALES NUMBER	CONTACTS	M20	1/2" NPT	QC 1/2" UNF 6 WAY	QC M12 8 WAY
Kobra KP Switch	2NC 1NO	200001	200002	200003	200021
Kobra KP Switch	3NC	200004	200005	200006	200022
Kobra KP Switch	3NC 1NO	200007	200008		200023
Kobra KP Switch	2NC 2NO	200010	200011		200024
Kobra KP Switch	4NC	200013	200014		200025
Kobra KP Switch	1NC 1NO Ex	200016	:	3m 4 Core Ex	
Kobra KP Switch	2NC Ex	200019	:	3m 4 Core Ex	
Kobra KP Switch	2NC 2NO Ex	200026	:	3m 8 Core Ex	
Actuator	Standard	Add	A to Sale	s Part Number	
Actuator	Flat	Add	F to Sales	s Part Number	
Actuator	Plastic Flexible	Add	PF to Sale	s Part Number	
Actuator	Heavy Duty Flexible	Add	HF to Sale	s Part Number	
Actuator	Heavy Duty S/Steel	Add	HFH to Sales	s Part Number	
Stainless Ste	el Head Version	A	dd SS to Sal	es Part Number	
Actuator Holding 40	N (3 pole version only)	A	dd 40N to Sa	les Part Numbe	r

Ordering example: Kobra KP M20 2NC 3NC with Stainless Steel Head and Heavy Duty Flexible Actuator Sales Number: 200004-HF-SS Gold Plated Contacts available for low power circuits (5V 5mA) Add GC to Sales Number e.g. 200001-A-GC

Also available with 3NO Contacts for use as indication purposes only. Please contact us for further information.

SALES NUMBER	CONTACTS	M20	
Kobra KP Switch	3NO	200001	

www.idemsafety.com

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

2 6

3 4