KOBRA - Tongue Operated Switch Type: KP

FEATURES:

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


## ACTUATOR OPTIONS (see p76)

Positive Break Contacts to EN60947-5-1 $\ominus$
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:
52 mm wide 98 mm long 40 mm fixing


Hinged Guard


Lift Off Guard


Sliding Guard
CONTACT BLOCK OPTIONS:

| 2NC 1NO | 3NC | NC | NC |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

DIMENSIONS:




# KOBRA - Tongue Operated Switch Type: KP 

CONTACT OPERATION AT WITHDRAWAL OF ACTUATOR

| 2NC 2NO | 6.86 .0 |  |
| :---: | :---: | :---: |
| $11 / 12$ | Open |  |
| $21 / 22$ | Open |  |
| $33 / 34$ |  | Open |
| $43 / 44$ |  | Open |


| 2NC 1NO | 6.86 .0 |  |
| :---: | :---: | :---: |
| $11 / 12$ | Open |  |
| $21 / 22$ | Open |  |
| $33 / 34$ |  | Open |


| 3NC 1NO |
| :--- |
| 6.86 .0  0 mm <br> $11 / 12$ Open  <br> $21 / 22$ Open  <br> $31 / 32$ Open  <br> $43 / 44$  Open |


| 4NC |  | 6.0 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $11 / 12$ | Open |  |  |  |
| $21 / 22$ | Open |  |  |  |
| $31 / 32$ | Open |  |  |  |
| $41 / 42$ | Open |  |  |  |

ACCESSORIES (see p70-75)


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


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


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

APPLICATION EXAMPLE


## 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.

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

| 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 |  | 4 Core |  |
| Kobra KP Switch | 2NC Ex | 200019 |  | 4 Core Ex |  |
| Kobra KP Switch | 2NC 2NO Ex | 200026 |  | 8 Core Ex |  |
| Actuator | Standard | Add | to Sale | Part Number |  |
| Actuator | Flat | Add | to Sale | Part Numbe |  |
| Actuator | Plastic Flexible | Add | F to Sale | Part Number |  |
| Actuator | Heavy Duty Flexible | Add | F to Sale | Part Number |  |
| Actuator | Heavy Duty S/Steel | Add | FH to Sale | Part Number |  |
| Stainless Steel Head Version |  | Add SS to Sales Part Number |  |  |  |
| Actuator Holding 40 | (3 pole version only) | Add 40N to Sales Part Number |  |  |  |

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 ( 5 V 5 mA ).
Add GC to Sales Number e.g. 200001-A-GC
Also available with 3 NO Contacts for use as indication purposes only.
Please contact us for further information.

