KOBRA - Tongue Operated Switch (Metal) Type: KM
FEATURES:


IDEM KM Interlock switches are designed to provide position interlock detection for medium to heavy duty moving guards.

They have robust die-cast housings and 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 anti-tamper mechanism.

The rotatable heads have dual actuator entry positions to give up to 8 different entry positions. For extra durability, Flexible Actuators and Stainless Steel head versions are available.

Contact blocks are replaceable with optional explosion proof versions. High holding force versions are available for applications where vibration can be a nuisance.

## 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:
118 mm long 40 mm wide 30 mm fixing


Hinged Guard


Sliding Guard


Lift Off Guard

## CONTACT BLOCK OPTIONS:

2NC 1NO $\quad$ 3NC

## DIMENSIONS:



ACTUATOR OPTIONS (see p76)


PRE-WIRED EXPLOSION PROOF:


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## 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.
 Tongue Switch.

## APPLICATION EXAMPLE



## Multiple Guard Door Interlocks Dual Channel (Monitored)

The switch contacts 11-12 and 21-22 from each switch are wired in series to an SCR-31-i Safety Relay to monitor for wiring short circuits.

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

The SCR-31-i monitors the switch and the contactors K1 and K2 and provides its own self-monitoring via force guided internal relays.
The system is shown with the Machine Stopped, Guards Closed and the contactors able to be energised.

| OV |  |  |
| :---: | :---: | :---: |
| FEMALE QC LEADS | LENGTH | SALES NUMBER |
| M12 8 Way | 5 m (15ft) | 140101 |
| M12 8 Way | 10 m (30ft) | 140102 |
| M23 12 Way | 5 m (15ft) | 140143 |
| M23 12 Way | 10 m (30ft) | 140144 |
|  |  |  |
| Quick Connect (QC) M23 12 Way Male (connector length 26 mm ) Pin View from Switch | Switch Circuit | Quick Connect (QC) M12 8 Way Male (on Flying Lead 250 mm ) Pin View from Switch |
| 13 | 11/12 | 17 |
| 46 | 21/22 | 65 |
| 78 | $33 / 34$ or $31 / 32$ | 43 |
| $9 \quad 10$ | 41/42 or 43/44 |  |
| 12 | Earth | 8 |


| SALES NUMBER | CONTACTS | M20 | 1/2" NPT | $\begin{gathered} \text { QC } \\ \text { M23 } \\ 12 \text { WAY } \end{gathered}$ | $\begin{gathered} \text { QC } \\ \text { M12 } \\ 8 \text { WAY } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Kobra KM Switch | 2NC 1NO | 203001 | 203002 | 203003 | 203021 |
| Kobra KM Switch | 3NC | 203004 | 203005 | 203006 | 203022 |
| Kobra KM Switch | 3NC 1NO | 203007 | 203008 | 203009 |  |
| Kobra KM Switch | 2NC 2NO | 203010 | 203011 | 203012 |  |
| Kobra KM Switch | 4NC | 203013 | 203014 | 203015 |  |
| Kobra KM Switch | 1NC 1NO Ex | 203016 |  | 4 Core |  |
| Kobra KM Switch | 2NC Ex | 203019 |  | 4 Core |  |
| Kobra KM Switch | 2NC 2NO Ex | 203026 |  | 8 Core |  |
| Actuator | Standard | Add A to Sales Part Number |  |  |  |
| Actuator | Flat | Add F to Sales Part Number |  |  |  |
| Actuator | Plastic Flexible | Add PF to Sales Part Number |  |  |  |
| Actuator | Heavy Duty Flexible | Add HF to Sales Part Number |  |  |  |
| Actuator | Heavy Duty S/Steel | Add HFH to Sales Part Number |  |  |  |
| Stainless Steel Head Version |  | Add SS to Sales Part Number |  |  |  |
| Actuator Holding 40N (3 pole version only) |  | Add 40N to Sales Part Number |  |  |  |

[^0]For all IDEM switches the normally closed (NC) circuits
Also available with 3 NO Contacts for use as indication purposes only. Please contact us for further information.


[^0]:    Ordering example: Kobra KM M20 2NC 1NO with Heavy Duty Flexible Actuator: Sales Number: 203001-HF
    Gold Plated Contacts available for low power circuits ( 5 V 5 mA ). Add GC to Sales Number e.g. 203001-A-GC

