IDEHM 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.

**FEATURES:**

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

Designed with a removable lid to fit replaceable contact blocks.

Flexible actuators are available and the KM is available with a Stainless Steel head.

**CONTACT BLOCK OPTIONS:**

- 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: 118mm long 40mm wide 30mm fixing

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Standard Actuator</th>
<th>Stainless Steel</th>
</tr>
</thead>
</table>

**FUNCTIONAL SPECIFICATIONS:**

- Flexible actuators are available
- The KM is available with a Stainless Steel head

**ACTUATOR OPTIONS** (see p100)

<table>
<thead>
<tr>
<th>Standard</th>
<th>Flat</th>
<th>Plastic Flexible</th>
<th>Heavy Duty Flexible</th>
<th>Heavy Duty Flexible Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>F</td>
<td>PF</td>
<td>HF</td>
<td>HFH</td>
</tr>
</tbody>
</table>

**CLASSIFICATION:**

- Exd IIC T6 (-20 ≤ Ta ≤ +60°C) Gb
- Ex tb IIIC T85C (-20 ≤ Ta ≤ +60°C) Db

**SAFETY CLASSIFICATION AND RELIABILITY DATA:**

- Mechanical Reliability B10d
- ISO13849-1
- EN62061
- Safety Data – Annual Usage
- Utilization Category A15
- 3A 500Vac/2500Vac
- 8mm
- 800mm/s
- Die Cast (Painted Red)
- Stainless Steel 316
- IP67
- 80°C
- IEC 68-2-6 55Hz ± 1Hz
- Exursion 0.35mm 1 octave/min
- Various (See Sales Number)
- 4 x 5M
KOBRA - Tongue Operated Switch (Metal) Type: KM

CONTACT OPERATION AT WITHDRAWAL OF ACTUATOR

<table>
<thead>
<tr>
<th>CONTACTS</th>
<th>M20</th>
<th>1/2&quot; NPT</th>
<th>QC M23</th>
<th>QC M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NC 1NO</td>
<td>6.8</td>
<td>6.0</td>
<td>0mm</td>
<td></td>
</tr>
<tr>
<td>11/12</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21/22</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33/34</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3NC 1NO</td>
<td>6.8</td>
<td>6.0</td>
<td>0mm</td>
<td></td>
</tr>
<tr>
<td>11/12</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21/22</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31/32</td>
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<tr>
<td>43/44</td>
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<td></td>
</tr>
<tr>
<td>4NC</td>
<td>6.0</td>
<td>0mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/12</td>
<td>Open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21/22</td>
<td>Open</td>
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<td></td>
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</tr>
<tr>
<td>33/34</td>
<td>Open</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

Maintenance Lockout Actuator

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

Chained Actuator

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

GBA-1 Gate Bolt
Shown fitted with KM Tongue Switch.

APPLICATION EXAMPLE

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 M23 | QC M12 |
-------------|----------|-----|----------|--------|--------|
Kobra KM Switch 2NC 1NO | 203001 | 203002 | 203003 | 203021 |
Kobra KM Switch 3NC | 203004 | 203005 | 203006 | 203022 |
Kobra KM Switch 3NC 1NO Ex | 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 | 3m | 4 Core Ex |
Kobra KM Switch 2NC Ex | 203019 | 3m | 4 Core Ex |
Kobra KM Switch 2NC 2NO Ex | 203026 | 3m | 8 Core Ex |

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