

## IDEM TONGUE INTERLOCK SAFETY SWITCHES KM

KM

203001HFH-SS  
KM M20 '2NC 1NO' SS head - HFH actuator



- Robust die cast housing
- Slim fitting designed for where impact resistance is required
- Available with die cast or stainless steel head
- 8 Actuator entry positions- rotatable head
- IP67 ingress protection rating



### PRODUCT DESCRIPTION

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

## TECHNICAL DATA

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| <b>Actuator</b>      | Heavy duty s/steel                                              |
| <b>Annual usage</b>  | 8 cycles per hour/24 hours per day/365 days                     |
| <b>Approvals</b>     | ISO 14119, EN60947-5-1, EN60204-1, ISO 13849-1, EN62061, UL 508 |
| <b>ATEX approved</b> | No                                                              |

|                                            |                                                |
|--------------------------------------------|------------------------------------------------|
| <b>Conduit entry</b>                       | M20                                            |
| <b>Contacts</b>                            | 2NC 1NO                                        |
| <b>Head material</b>                       | Stainless steel 316                            |
| <b>Housing material</b>                    | Die cast metal                                 |
| <b>IP class</b>                            | IP67                                           |
| <b>Maximum approach / withdrawal speed</b> | 600 mm/s                                       |
| <b>Mechanical reliability B10d</b>         | 2.5 x 10 <sup>6</sup> operations at 100mA load |
| <b>Mounting</b>                            | 4 x M5                                         |
| <b>MTTFd</b>                               | 356 years                                      |
| <b>Operating temperature</b>               | -25..80°C                                      |
| <b>PFHd</b>                                | 3.44 x 10 <sup>-8</sup>                        |
| <b>PL</b>                                  | e acc. ISO13849-1                              |
| <b>Rated insulation voltage</b>            | 500V ac                                        |
| <b>SIL</b>                                 | 3 acc. EN62061                                 |
| <b>Thermal current (I<sub>th</sub>)</b>    | 5 A                                            |
| <b>Travel for positive opening</b>         | 8 mm                                           |
| <b>Withstand voltage</b>                   | 2500V ac                                       |





