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# **IDEM - TONGUE INTERLOCK SAFETY** SWITCHES - KP

KP

200004 KP M20 '3NC'



- 4 Actuator entry positions with a rotatable head
- 3 pole or 4 pole contact blocks
- · 3 conduit entries
- 52mm x 98mm 40mm fixing
- IP67 ingress protection rating



### PRODUCT DESCRIPTION

### 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 anti-tamper 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



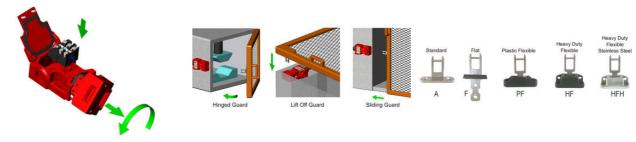
Contact blocks are replaceable with optional explosion proof versions. They are sealed to IP67 and survive most wash down solutions due to the high specification materials

#### 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

## **TECHNICAL DATA**

Actuator	Not included		
Annual usage	8 cycles per day/24 hours per day/365 days		
Approvals	ISO 14119, EN60947-5-1, EN60204-1, ISO 13849-1, EN62061, UL 508		
ATEX approved	No		
Conduit entry	M20		
Contacts	3NC		
Head material	Polyester		
Housing material	Polyester		
IP class	IP67		
Maximum approach / withdrawal speed	600 mm/s		
Mechanical reliability B10d	2.5 x 10 <sup>6</sup> operations at 100mA load		
Mounting	2 x M5		
MTTFd	356 years		
Operating temperature	-2580°C		
PFHd	3.44 x 10 <sup>-8</sup>		
PL	e acc. ISO13849-1		
Rated insulation voltage	500V ac		
SIL	3 acc. EN62061		
Thermal current (Ith)	5 A		
Withstand voltage	2500V ac		













































2NC 1NO	3NC	3NC 1NO	2NC 2NO	4NC
		43 44	43 44	⊕41 42
33 — 34 ⊖	31-32	931 → 32	33 34	⊕31 - 1 32
⊕21———22 ⊕	21-1-22	1 ⊕21	⊕21 - 22	⊕21 - 22
⊕11-12 ⊕1	1-12	1 11-12	⊕11	⊕11 — 12

