IDEM - TONGUE INTERLOCK SAFETY SWITCHES – KP

KP

200013F
KP M20 '4NC' - flat actuator

- 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
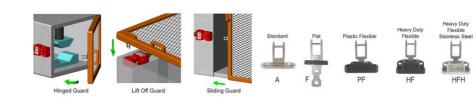- Industry Standard Fitting: 52mm wide   98mm long   40mm fixing

Specifications

Actuator	Flat
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
Central Material	Polyester
Conduit entry	M20
Contacts	4NC
Head material	Polyester
IP Class	IP67
Maximum approach / withdrawal speed	600
Mechanical reliability B10d	2.5×10^6 operations at 100mA load
Mounting	2 x M5
MTTFd	356 years
Operating temperature	-25..80°C
PFHd	3.44×10^{-8}
PL	e acc. ISO13849-1
Rated insulation voltage	500V ac
SIL	3 acc. EN62061
Thermal current (Ith)	5
Withstand voltage	2500V ac

Fixing Holes for M5 Screws

FRONT ENTRY

END ENTRY

24V dc

START MOMENTARY PUSH BUTTON

K1 (Aux)

K2 (Aux)

(A)

FUSES

STOP MOMENTARY PUSH BUTTON

2NC 1NO	3NC	3NC 1NO	2NC 2NO	4NC
33 — 34	31 — 32	43 — 44	43 — 44	41 — 42
21 — 22	21 — 22	33 — 34	33 — 34	31 — 32
11 — 12	11 — 12	21 — 22	21 — 22	21 — 22
		11 — 12	11 — 12	11 — 12

12 22

34

Auxiliary

11 21

33

LATCHING E-STOP

GUARD CLOSED

K1 K2

0V

Hinged Guard

Lift Off Guard

Sliding Guard

Standard	Flat	Plastic Flexible	Heavy Duty Flexible	Heavy Duty Flexible Stainless Steel
A	F	PF	HF	HFH

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END ENTRY

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33 — 34	31 — 32	43 — 44	43 — 44	41 — 42
21 — 22	21 — 22	33 — 34	33 — 34	31 — 32
11 — 12	11 — 12	21 — 22	21 — 22	21 — 22
		11 — 12	11 — 12	11 — 12

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MOMENTARY
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12   22   34

11   21   33

Auxiliary

LATCHING
E-STOP

GUARD
CLOSED

K1   K2

0V