IDEM - TONGUE INTERLOCK SAFETY SWITCHES – KP

KP

200010-SS
KP M20 '2NC 2NO' SS head

- 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

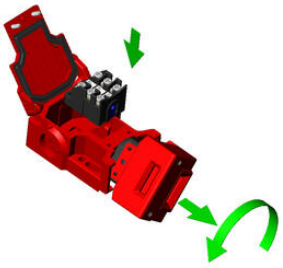
Contact blocks are replaceable with optional explosion proof versions. They are sealed to IP67 and survive most wash down solutions due to the high specification materials

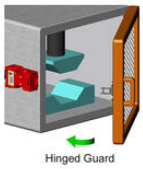
Functional specifications

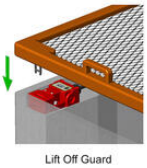
- Positive Break Contacts to EN60947-5-1
- High Functional Safety to ISO13849-1
- 3 pole, 4 pole or Explosion Proof Contact Blocks
- Stainless Steel Head version available
- Connects to most Safety Relays to give up to PLe Cat.4
- Industry Standard Fitting: 52mm wide 98mm long 40mm fixing

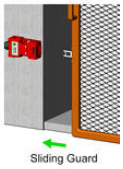
Specifications

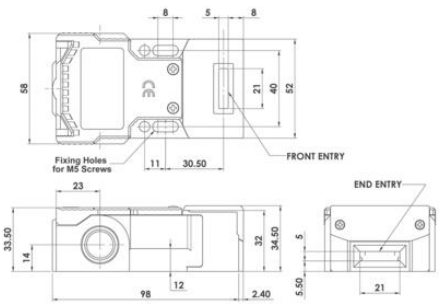
Annual usage	8 cycles per day/24 hours per day/365 days
Approvals	ISO 14119, EN60947-5-1, EN60204-1, ISO 13849-1, EN62061, UL 508
Atex approved	No
Central Material	Polyester
Conduit entry	M20
Contacts	2NC 2NO
Head material	Stainless steel 316
IP Class	IP67
Maximum approach / withdrawal speed	600
Mechanical reliability B10d	2.5 x 10^6 operations at 100mA load
Mounting	2 x M5
MTTFd	356 years
Operating temperature	-25..80°C
PFHd	3.44 x 10^{-8}
PL	e acc. ISO13849-1
Rated insulation voltage	500V ac
SIL	3 acc. EN62061
Thermal current (Ith)	5
Withstand voltage	2500V ac

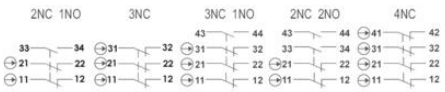


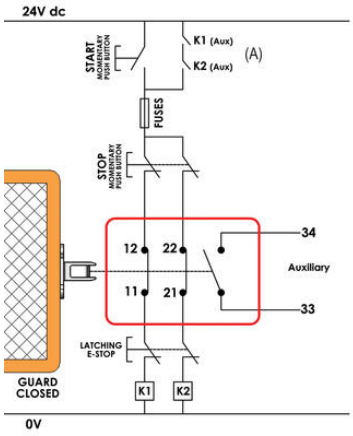


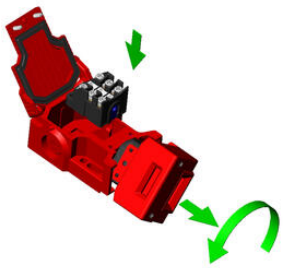


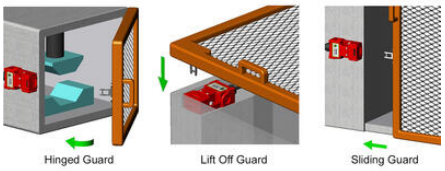



8
5
8
58
21
40
52
Fixing Holes for M5 Screws
11
30.50
FRONT ENTRY
END ENTRY
23
33.50
14
32
34.50
5
98
12
2.40
5.50
21

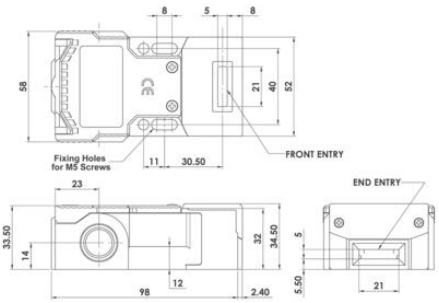

2NC 1NO
3NC
3NC 1NO
2NC 2NO
4NC


24V dc
START
K1 (Aux)
K2 (Aux)
(A)
FUSES
STOP
12
22
34
Auxiliary
11
21
33
LATCHING E-STOP
GUARD CLOSED
K1
K2
0V




Hinged Guard
Lift Off Guard
Sliding Guard


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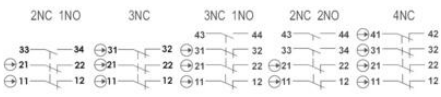
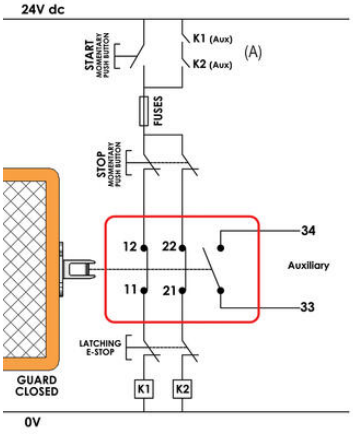

2NC 1NO
3NC
3NC 1NO
2NC 2NO
4NC


24V dc
START
MOMENTARY
PUSH BUTTON
K1 (Aux)
K2 (Aux)
(A)
FUSES
STOP
MOMENTARY
PUSH BUTTON
12
22
11
21
34
33
Auxiliary
LATCHING
E-STOP
GUARD
CLOSED
K1
K2
0V