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IDEM TONGUE INTERLOCK SAFETY SWITCHES KM

KM

203001A
KM M20 '2NC 1NO' - std 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

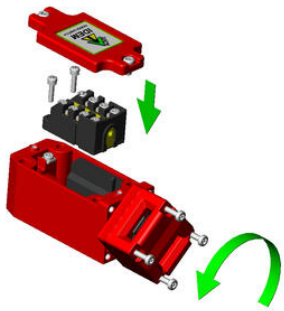
Functional specifications

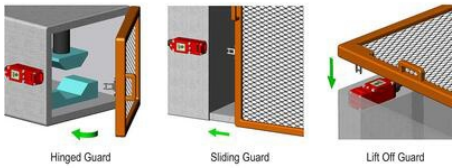
- Positive Break Contacts to EN60947-5-1
- High Functional Safety to ISO13849-1
- 3 pole, 4 pole or Explosion Proof Contact Blocks
- Stainless Steel Head version available
- Connects to most Safety Relays to give up to PLe Cat.4
- Industry Standard Fitting: 40mm wide 118mm long 30mm fixing

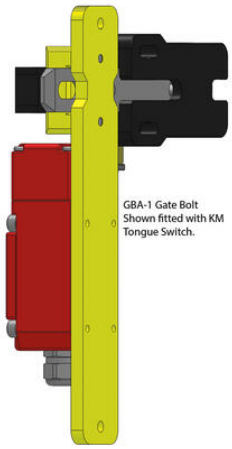
TECHNICAL DATA

Actuator	Standard
Annual usage	8 cycles per hour/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	2NC 1NO
Head material	Die cast metal
Housing material	Die cast metal
IP class	IP67
Maximum approach / withdrawal speed	600 mm/s
Mechanical reliability B10d	2.5 x 10^{6} operations at 100mA load
Mounting	4 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 A
Travel for positive opening	8 mm
Withstand voltage	2500V ac



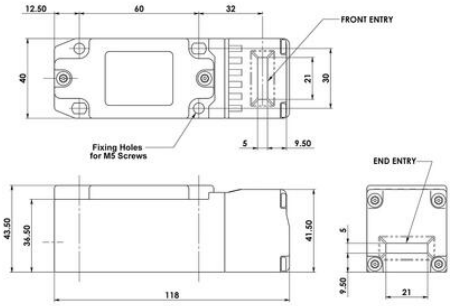


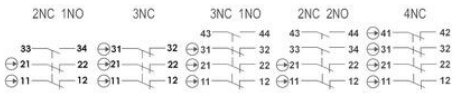


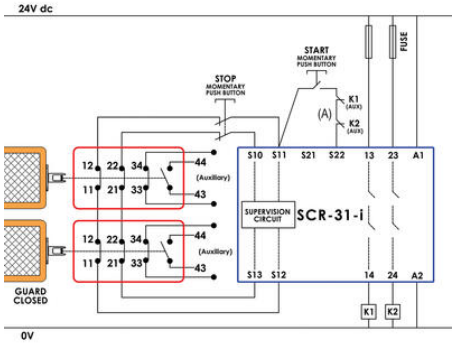

Standard
Flat
Plastic Flexible
Heavy Duty Flexible
Heavy Duty Flexible Stainless Steel
A
F
PF
HF
HFH

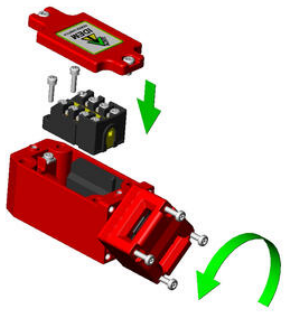


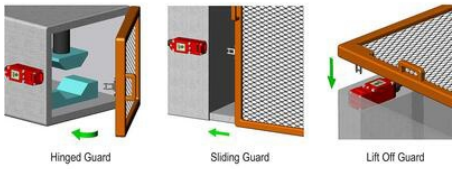


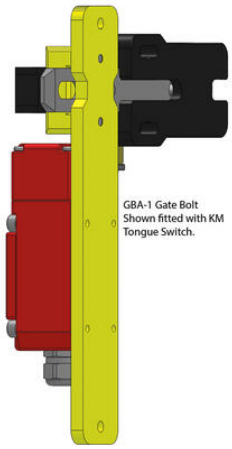

12.50
60
32
FRONT ENTRY
40
21
30
Fixing Holes for M5 Screws
5
9.50
END ENTRY
43.50
34.50
41.50
118
5
9.50
21


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


24V dc
START MOMENTARY PUSH BUTTON
STOP MOMENTARY PUSH BUTTON
FUSE
K1 (AUX)
(A)
K2 (AUX)
S10 S11 S21 S22 13 23 A1
(Auxiliary)
SUPERVISION CIRCUIT
SCR-31-i
S13 S12 14 24 A2
GUARD CLOSED
K1 K2
0V



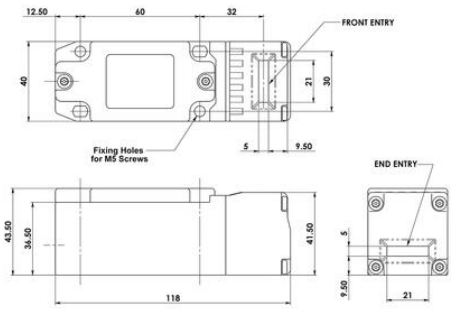

Hinged Guard
Sliding Guard
Lift Off Guard

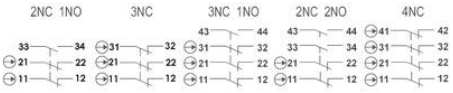

GBA-1 Gate Bolt
Shown fitted with KM
Tongue Switch.

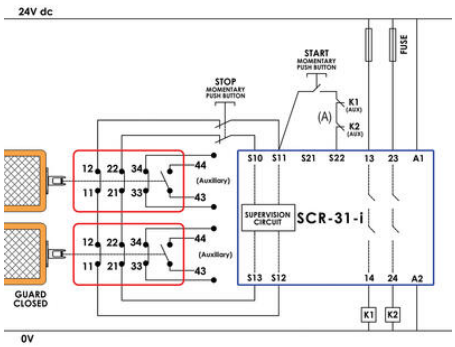

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2NC 1NO
3NC
3NC 1NO
2NC 2NO
4NC
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11
12


24V dc
START
MOMENTARY
PUSH BUTTON
FUSE
STOP
MOMENTARY
PUSH BUTTON
K1
(AUX)
(A)
K2
(AUX)
S10
S11
S21
S22
13
23
A1
12
22
34
44
(Auxiliary)
11
21
33
43
SUPERVISION
CIRCUIT
SCR-31-i
12
22
34
44
(Auxiliary)
11
21
33
43
S13
S12
14
24
A2
GUARD
CLOSED
K1
K2
0V