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# IDEM STAINLESS STEEL IP69K SAFETY INTERLOCK SWITCH KM-SS

204010PF
KM-SS M20 '2NC 2NO' - PF actuator



- Slim fitting suitable for most industrial applications
- Mirror polished surface (Ra10)
- 42mm wide x 118mm long
- IP69K Suitable for food applications
- Provides 8 actuator entry positions

### PRODUCT DESCRIPTION

HYGIECAM Series Interlock Switches have a rugged Stainless Steel 316 body and have been designed to cope with the rigorous applications of the Food Processing, Pharmaceutical, Packaging and Petro-Chemical Industries. The surface finish is mirror polished to Ra10 to resist the accumulation of food debris and is suitable for high pressure hosing at high temperature.
They offer a compact slimline housing which will fit to areas where there are space restrictions and are sealed to IP69K enclosure protection. They can be high pressure hosed with most detergents at high temperature.
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 rotatable heads have dual actuator entry positions to give up to 8 different entry positions.

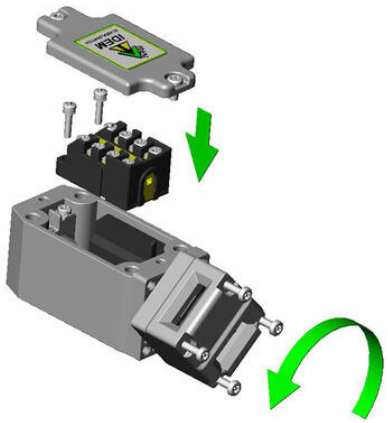


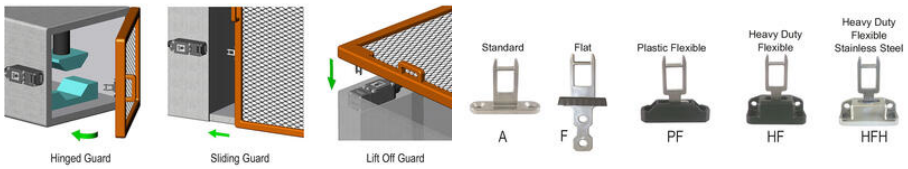
High holding force versions are available for applications where vibration can be a nuisance.

## TECHNICAL DATA

| | |
|---|---|
| **Actuator** | Plastic flexible |
| **Annual usage** | 8 cycles per hour/24 hoursa 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 2NO |
| **Head material** | Stainless steel 316 |

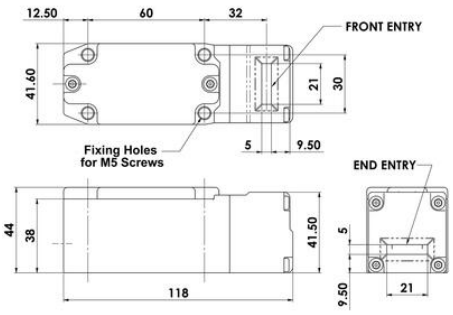
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|---|---|
| **Housing material** | Stainless steel 316 |
| **IP class** | IP67, IP69K |
| **Maximum approach / withdrawal speed** | 600 mm/s |
| **Mechanical reliability B10d** | 2.5 x $10^6$ operations at 100mA load |
| **Mounting** | 4 x M5 |
| **MTTFd** | 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 |

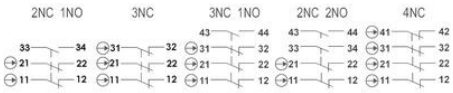


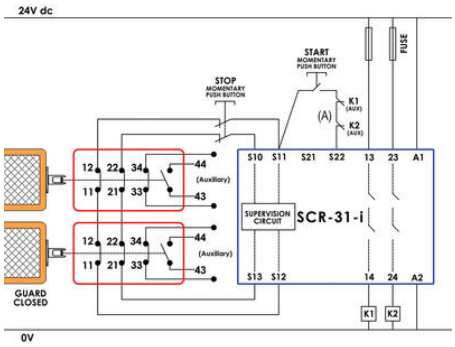


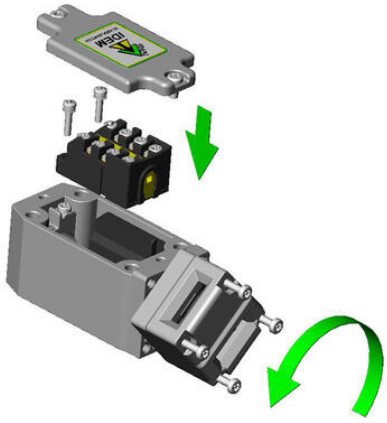


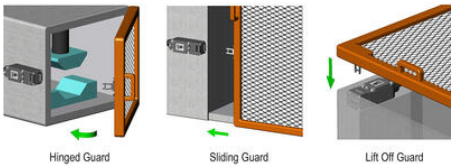



2NC 1NO
3NC
3NC 1NO
2NC 2NO
4NC


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

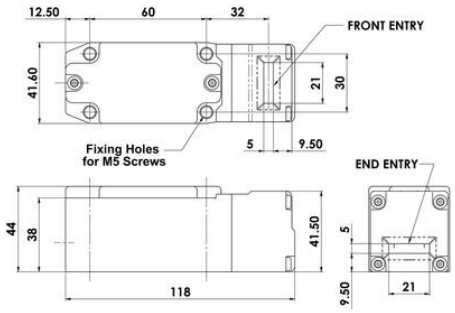


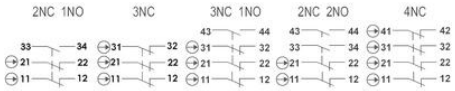

Hinged Guard
Sliding Guard
Lift Off Guard

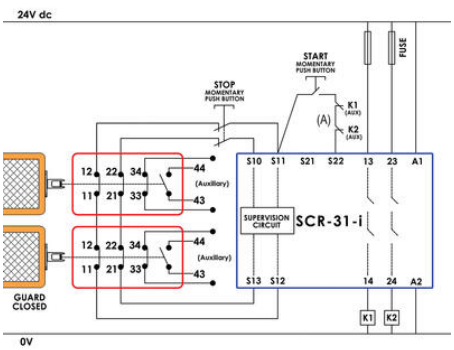

Standard
Flat
Plastic Flexible
Heavy Duty
Flexible
Heavy Duty
Flexible
Stainless Steel
A
F
PF
HF
HFH






12.50
60
32
FRONT ENTRY
41.60
21
30
5
9.50
Fixing Holes
for M5 Screws
END ENTRY
44
38
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)
K2
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