RFID Coded Non Contact with Auto Test Type: RAMZSense LPZ

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FEATURES & APPLICATION:

IDEM's RAMZSense LPZ Intelligent Series Non Contact Coded switch has been developed to provide and maintain a high level of functional safety whilst providing tamper proof RFID coded activation.

They will connect to most popular standard Safety Relays to maintain a PLe Safety Level even with switches connected in series.

They are offered in high specification plastic housings and can be used in almost any environment including areas where high pressure cleaning following contamination from foreign particles is a requirement.

They have IP69K ingress protection and are suitable for CIP and SIP processes.

They have easy to understand LED diagnostic functions and provide auxiliary outputs for extra diagnostic signals to PLCs or computers.

The typical sensing distance "ON" is 12mm with wide tolerance to guard misalignment after setting.

Coding is achieved by using magnetic and radio frequency techniques, both principles need to be satisfied for the switch to operate safely.

The RFID sensing provides a tamper resistant operation when the actuator is in the sensing range of the switch.

The RAMZSense LPZ switches are available in 2 Versions:

VERSION 1: Type M Master code - by series (any actuator will operate any switch) used when unique door activation is not required, but the benefit of RFID makes it virtually impossible to be overridden or by-passed by simple means.

VERSION 2: Type U 32,000,000 Unique codes - these switches are factory set and used when **unique** activation is required in areas where there are many interlocked doors and security of individual areas is required.



SAFETY RELIABILITY:

The RAMZSense LPZ switches employ two microprocessors and they use IDEM's intelligent system to check all switches at each safety demand. Safety Reliability up to ISO13849-1 PLe.

MAIN USER BENEFITS:

- RFID provides a high degree of anti-tamper virtually impossible to override.
- Unique RFID or series coding RFID available.
- Maintains PLe by employing IDEM's technique at each safety demand.
- Connect up to 20 switches in series.
- Able to connect to most popular Safety Relays without the need for special controllers.
- Ability to connect to other switches and Emergency Stops in series.

FUNCTIONAL SPECIFICATION:

High Functional Safety to ISO13849-1 - connects to most Safety Relays to maintain PLe.

RFID Coded actuation to provide high tamper proof interlock security on Guard Doors.

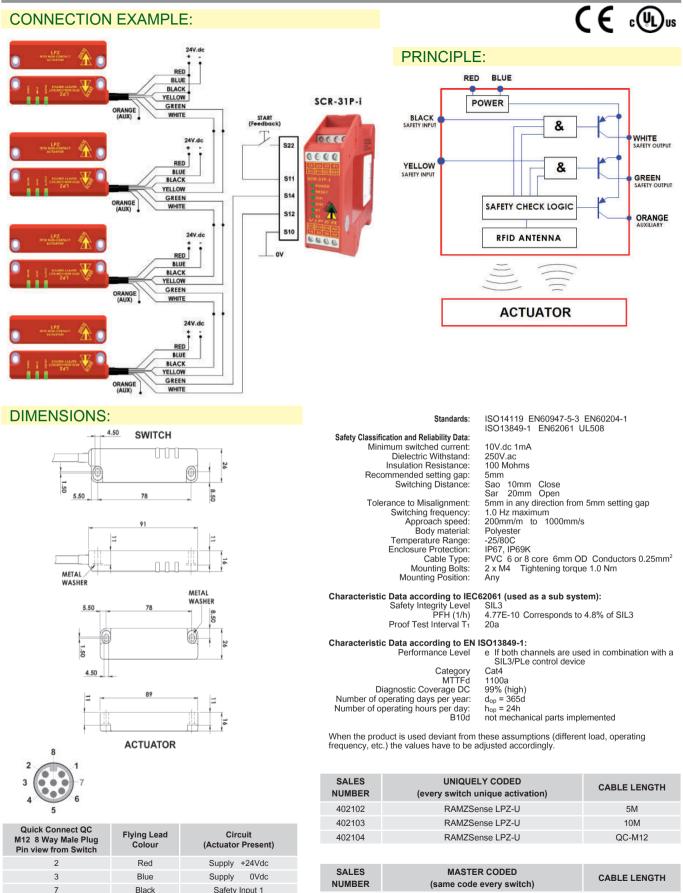
Safety Outputs short circuit protected.

One Auxiliary circuit for indication of door open.

No moving parts - high switch life and resistance to shock and vibration.

M12 Male 8-way Quick Connector versions available (Flying Lead 250mm (10")).

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402002

402003

402004

402200

For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed and the actuator is present.

8

White

Yellow

Green

Orange

Safety Output 1

Safety Input 2

Safety Output 2

Not used Auxiliary RAMZSense LPZ-M

RAMZSense I PZ-M

RAMZSense LPZ-M

Replacement Actuator Master Coded

140101

5M

10M

QC-M12

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