Z-RANGE RFID with OSSD: **MPZ & MMZ**

FEATURES & APPLICATION:

IP69K

NEW

Wraparound bi-colour indicators for on-switch diagnostics and easy fault finding.

Symmetrical design supports both left- and right-hand cable runs.

Compact housing with industry standard 22mm fixing holes.

The MPZ RFID Safety Switches are specifically designed for applications requiring a high level of manipulation protection. These switches are equipped with integrated OSSD outputs, allowing for direct connection to safety controllers, simplifying installation, and reducing costs.

The MMZ is the world's smallest 316 stainless-steel RFID safety switch. The MMZ has all the same features as the MPZ but can withstand pressure washing at high temperatures and is resistant to corrosive chemicals.

KEY FEATURES:

- **Suitable for High Safety Applications:** Suitable for applications up to Performance Level e (PL e).
- **Individually Coded Sensors:** Provides unique coding for each sensor, enhancing security and manipulation protection.
- **Diverse Mounting Options:** Offers various mounting possibilities, ensuring full flexibility in use.
- **High Misalignment Tolerances:** Capable of handling significant misalignment, along with shock and vibration resistance, ensuring reliable performance.
- **Series Connection Capability:** Allows the connection of up to 30 sensors in series without additional safety modules.

OPERATIONAL DIRECTION:
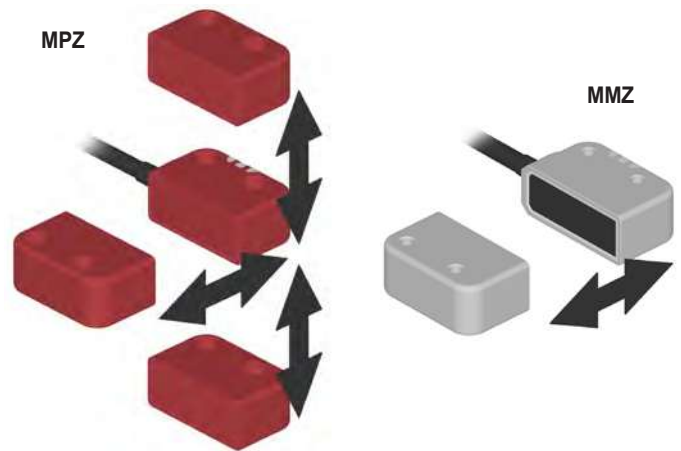
MPZ

MMZ

BENEFITS:

- **Only One Safety Module Needed:** Simplifies system architecture and reduces overall system cost.
- **Enhanced Manipulation Protection:** Meets stringent safety application requirements.
- **Flexible Mounting:** Accommodates a wide range of installation scenarios, enhancing usability.
- **High Machine Availability and Reliability:** Ensures consistent operation and minimizes downtime.
- **Cost and Time Efficiency:** Streamlines the use of multiple sensors, saving both time and money.

Compact and Space-Saving Design

The compact design of the MPZ & MMZ RFID Safety Switches allows for space-saving mounting, making them ideal for applications where installation space is limited.
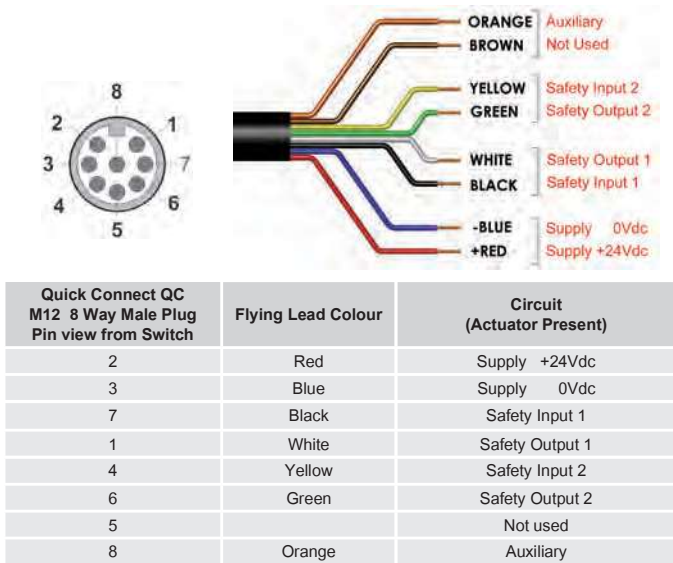
TECHNICAL SPECIFICATION:

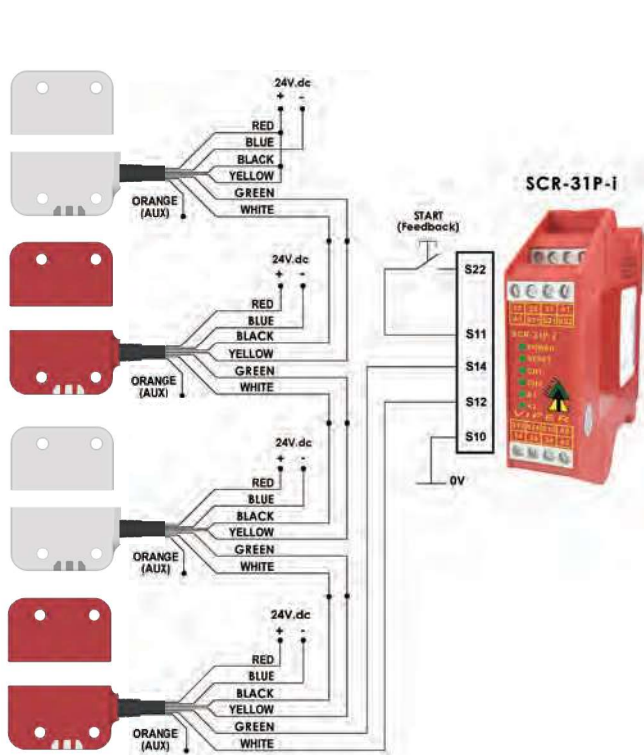|	
Standards	ISO14119 EN 60947-5-3 EN 60204-1 ISO 13849-1 EN 62061 UL508
Supply Voltage	24 Vdc -15% +10% Use SELV/PELV
Power Consumption	0.7W
Outputs Rated Voltage	24Vdc Max: 0.1A / Min: 1 mA
Outputs Type	OSSD, PNP
Inputs Rated Voltage	24Vdc
Inputs Rated Current	2 mA
Auxiliary Circuits	24Vdc 0.2A Max. output current
Signalling Output Type	PNP
Assured Switching Distances	SAO: 8mm / SAR: 25mm
Recommended Setting Gap	3mm
Tolerance to Misalignment	+/-5mm in any direction from 5mm setting
Material (MPZ)	Red Polyester
Material (MMZ)	316 Grade Stainless Steel
Enclosure Protection (MPZ)	IP67
Enclosure Protection (MMZ)	IP69K
Operating Temperature	-25C to +55C

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CONNECTIVITY:

	ORANGE	Auxiliary
	BROWN	Not Used
	YELLOW	Safety Input 2
	GREEN	Safety Output 2
	WHITE	Safety Output 1
	BLACK	Safety Input 1
	-BLUE	Supply 0Vdc
	+RED	Supply +24Vdc

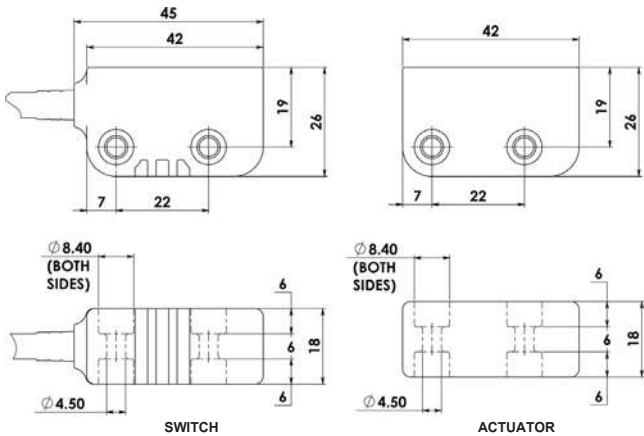| Quick Connect QC M12 8 Way Male Plug Pin view from Switch	Flying Lead Colour	Circuit (Actuator Present)
2	Red	Supply +24Vdc
3	Blue	Supply 0Vdc
7	Black	Safety Input 1
1	White	Safety Output 1
4	Yellow	Safety Input 2
6	Green	Safety Output 2
5		Not used
8	Orange	Auxiliary

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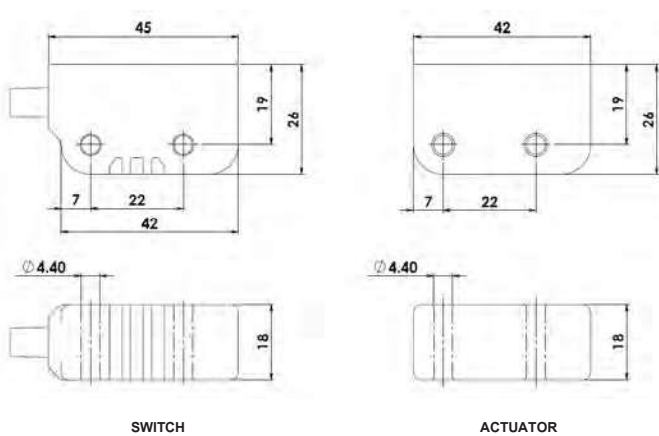
CONNECTION EXAMPLE:

DIMENSIONS:

MPZ

SWITCH | ACTUATOR

MMZ

SWITCH | ACTUATOR

ORDERING:

Part Number	Description
417002	MPZ-A 5m Pre-Wired Any Code (Actuator Inc.)
417003	MPZ-A 10m Pre-Wired Any Code (Actuator Inc.)
417003	MPZ-A QC-M12 8-PIN Any Code (Actuator Inc.)
417102	MPZ-U 5m Pre-Wired Unique Code (Actuator Inc.)
417103	MPZ-U 10m Pre-Wired Unique Code (Actuator Inc.)
417104	MPZ-U QC-M12 8-PIN Unique Code (Actuator Inc.)
418002	MMZ-A 5m Pre-Wired Any Code (Actuator Inc.)
418003	MMZ-A 10m Pre-Wired Any Code (Actuator Inc.)
418004	MMZ-A QC-M12 8-PIN Any Code (Actuator Inc.)
418102	MMZ-U 5m Pre-Wired Unique Code (Actuator Inc.)
418103	MMZ-U 10m Pre-Wired Unique Code (Actuator Inc.)
418104	MMZ-U QC-M12 8-PIN Unique Code (Actuator Inc.)
Accessories	
Compatible with GBN-1 (See page 76)	
Compatible with GBN-3 (See page 77)	
Compatible with Z-Range Connection Accessories (See page 72)	

MPZ fitted to GBN-3

Connectivity Accessories