



IDEM MMZ NON CONTACT SAFETY SWITCHES

418002

MMZ-A 24Vdc 5m Cable RFID Safety Switch

- IP67/IP69K
- -25°C - 80°C
- Up to PLe at serial connection
- RFID coded



PRODUCT DESCRIPTION

The MMZ is IDEM's stainless-steel, mirror-polished (316 SS, Ra4 finish) non-contact RFID safety interlock switch, designed with high-level anti-tamper coding in compliance with Type 4 of ISO 14119 and achieving functional safety up to CAT4, SIL 3, PLe in accordance with ISO 13849-1. It features dual-channel PNP OSSD outputs and an auxiliary output, enabling series wiring of up to 30 devices to simplify wiring and diagnostics while retaining full safety integrity. The switch operates on a 24 V DC supply ($\pm 10\%$), draws ~25 mA with no load, and delivers OSSD outputs rated at 100 mA per channel with <1.5 V voltage drop. Its sensing characteristics include up to 10 mm sensing distance with a recommended 3 mm actuator gap, tolerating ± 5 mm misalignment in any direction. The MMZ is rated to IP67/IP69K, allowing it to withstand high-pressure washdowns and CIP/SIP cycles, with diagnostics via a wrap-around polycarbonate LED lens for full visibility of guard, code, input and output status.

The compact form factor of the MMZ, makes it especially suited for environments with stringent hygiene demands such as food, beverage, and pharmaceutical production. Its smooth exterior and sealed lens eliminate contamination traps and facilitate thorough cleaning. The stainless-steel housing and high ingress protection rating mean it performs reliably under extreme temperature, moisture and washdown conditions. In addition, the wide sensing distance and tolerance to misalignment reduce nuisance tripping, and the coded RFID operation prevents tampering or substituting actuators on safety guards, offering both secure interlock and long mechanical life. Used for hinged or sliding guard doors on high-speed machines, hygiene-critical containment systems, and outdoor installations where both safety integrity and environmental robustness are critical.

TECHNICAL DATA

Cable length	5 m
Contact rating max	24Vdc 0.1A
Contacts	2 x OSSD, PNP
Housing material	Stainless steel 316
Integrated LED indication	Yes

Minimum current	1mA
Operating temperature	-25°C ... +55°C
PL	e acc. EN ISO13849-1
Recommended mounting gap	3 mm
SIL	3 acc. IEC62061

