OEM AUTOMATIC

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IDEM LMZ NON CONTACT SAFETY SWITCHES

412001.
LMZ-M 5M

- IP67/IP69K
- -25°C - 80°c
- Up to PL e at serial connection
- 2 secure PNP outputs (OSSD)

PRODUCT DESCRIPTION

The LMZ is housed in mirror-polished 316 stainless-steel and is fully encapsulated to IP69K standards, making it highly resistant to high-pressure washdowns and harsh cleansing cycles typical in hygienic environments. It offers RFID-coded sensing for tamper-resistant operation and delivers dual-channel PNP OSSD outputs with an auxiliary diagnostic output, compatible with standard safety relays to achieve PLe under ISO 13849-1 even when multiple switches are wired in series. The LMZ provides a generous sensing distance of up to 12 mm "ON," with broad tolerance for actuator misalignment, ensuring reliable actuation across varied installations. Two coding options are available: "M" (Master) where any actuator will operate any switch, or "U" (Unique), offering up to 32 million unique codes for environments requiring high actuator/circuit segregation.

The robust LMZ switch is ideal for securing hinged, sliding, or removable safety guards on machinery in sectors such as food & beverage, pharmaceuticals, and chemical processing, particularly where stringent hygiene and corrosion resistance are essential. Its stainless-steel housing and IP69K sealing help avoid contamination niches and simplify cleaning protocols, while RFID coding prevents actuator substitution or tampering. The wide sensing distance and generous misalignment tolerance reduce installation precision demands and minimize nuisance faults, boosting uptime and operator safety. With diagnostic feedback via LED indicators and auxiliary outputs, it supports straightforward integration with PLCs or monitoring systems, offering visibility into guard status and simplifying troubleshooting.

TECHNICAL DATA

Approvals	ISO 14119, EN60947-5-1, EN60204-1, ISO 13849-1, EN62061, UL 508
Cable length	5 m
Conductor size	0.25 mm²
Contact rating max	24Vdc 0.2A
Contacts	2 x OSSD, PNP
Housing material	Stainless steel 316
Integrated LED indication	Yes
IP class	IP67, IP69K
Minimum current	1mA

Mounting	2 x M4
Operating temperature	-25°C ... +55°C
PL	e acc. EN ISO13849-1
Recommended mounting gap	5 mm
Safety category	4
SIL	3 acc. IEC62061