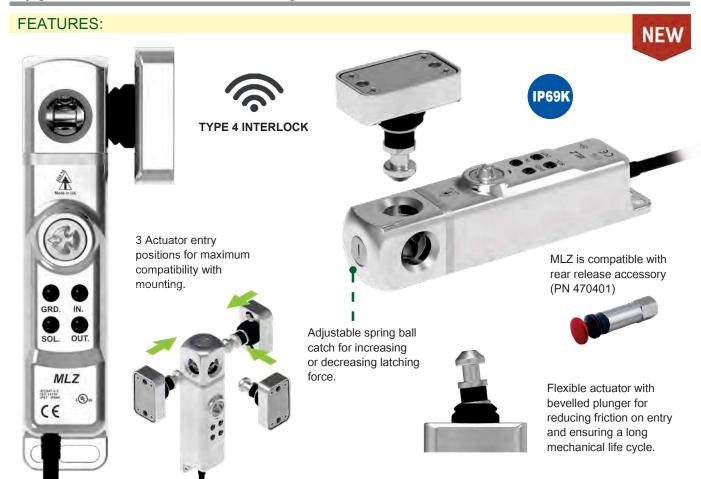
Hygienic RFID Guard Locking Switch S/Steel: MLZ



OVERVIEW:

MLZ is the World's Smallest Type 4 Hygienic Guard Lock with RFID. This Compact Hygienic Safety Interlock Switch is manufactured from mirror polished 316 Stainless Steel and Tested to IP67 and IP69K for Extreme Washdown Environments.

The MLZ Hygienic RFID Guard Locking Switch is a 30mm-wide Stainless Steel safety interlock switch that houses three entry actuation points. The device's super-compact size means it is compatible with the narrowest of machine guard rails and requires no mounting plate, making it simple to install.

With actuation capability on three sides, this small but mighty device is also incredibly versatile making it applicable for a vast range of guarding applications.

Manufactured from mirror-polished 316 Stainless Steel to Ra4 standard, the device's diminutive size belies its strength and durability. Tested to IP67 and IP69K and suitable for SIP and CIP cleaning, this robust interlock is ideal for outdoor use as well as for strict washdown environments, particularly food contact, beverage, and pharmaceutical manufacturing.

Features:

- Type 4 Guard Locking Switch with RFID
- Compact Design for Easy Integration
- 4000N Holding Force
- Rear escape release options.
- High-Visibility Status Indicators
- **Direct Machine Frame Mounting**
- Built-In Cascading Function

FUNCTIONAL SPECIFICATIONS:

Solid State OSSD Safety Outputs short circuit protected.

High Functional Safety to ISO13849-1. Guard interlocking and lock monitoring to CAT 4, PL e and SIL 3. Safety ratings are maintained with up to 30 devices in series.

Safety circuits are active when the guard is closed and locked. 1 auxiliary circuits; guard position.

4 diagnostic LED's to display guard position, lock, input/output signals and fault status.

Technical Specification		
Standards	IEC60947-5-3, ISO14119, ISO13849-1, IEC62061	
Supply Voltage	24VDC (-15% / +10%)	
Power Consumption	50mA (no load) 500mA peak (solenoid energised)	
Safety Outputs	24VDC, 0.2A	
Auxiliary Outputs	24VDC, 0.1A	
Rated Insulation Voltage	500VAC	
Holding Force (ISO14119)	Fzh 4000N	
Operating Frequency	1Hz	
Material	Stainless Steel 316	
Enclosure Protection	IP67/IP69K	
Operating Temperature	-25C to +40C	
Mechanical Life Expectancy	2.5 x 10 ⁶ cycles	
Vibration and Shock are tested to IEC 60068-2-6 and -2-27	IEC88-2-6, 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min	

Characteristic data according to IEC62061 (used as a subsystem)

Safety Integrity Level

PFH (1/h) 4.80 E-10 Corresponds to 4.8% of SIL3

Proof Test Interval T₁

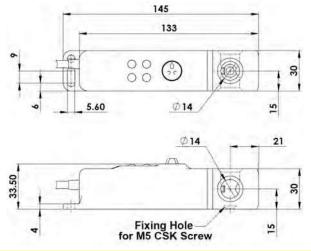
Charateristic data according to EN ISO13849-1 If both channels are used in conjunction with a

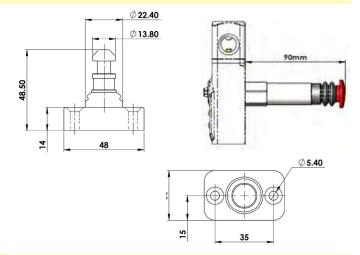
SIL 3/PLe control device. Category

1100a Diagnostic Coverage DC 99% (high)

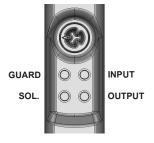
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DIMENSIONS:





INDICATION DIAGRAM:

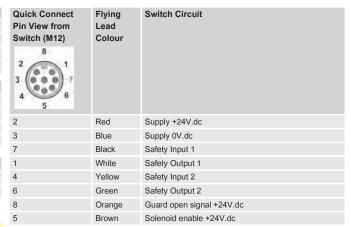


Guard	d State
	Green (Steady)
	Green (Flashing)
	Red (Flashing)
	Red
	Guard

LED 2 Input	
Safety Inputs On	Green (Steady)
Safety Inputs Missing	Green (Flash)
Safety Inputs Off	Off
Internal Fault	Red (Steady)

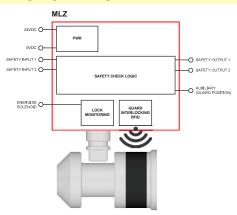
LED 3 Output		LED 4 Solenoid	
Safety Outputs On	Green (Steady)	Solenoid Energised	Red
Safety Outputs Off	Off	Solenoid De-energised	Off
External Fault	Red (Flashng)		

CONNECTIVITY:



Quick Connect Pin View from Switch (M12)	Switch Circuit
1	Supply +24V.dc
2	Safety Output 1
3	Supply 0V.dc
4	Safety Output 2
5	Unlock (Solenoid enable +24V.dc)

CONNECTION DIAGRAM:



ORDERING:

Part Number	Description
470001	MLZ 24VDC, 5m Pre-Wired (Inc. Actuator)
470002	MLZ 24VDC, 10m Pre-Wired (Inc. Actuator)
470004	MLZ 24VDC, 15m Pre-Wired (Inc. Actuator)
470005	MLZ 24VDC, 20m Pre-Wired (Inc. Actuator)
470003	MLZ 24VDC, M12-QC 8way on 250mm Flying Lead (Inc. Actuator)
470103	MLZ 24VDC, M12-QC 5way on 250mm Flying Lead (Inc. Actuator)
470420	Spare / Replacement Actuator
Accessories	
470410-L	MLZ Single Action Latching Pull Handle SS (Left)
470410-R	MLZ Single Action Latching Pull Handle SS (Right)
470402	Sliding Handle (Gate Bolt)
470403	Optional Spring Catch for Sliding Handle
470401	Rear Release Button (90mm)
470404	Rear Gasket Set for Switch and Actuator

