

IDEM Non-Contact RFID Magnetic Locking Safety Switches MGL-3P Series (Polyester Housing)

**MGL-3P-M-467006**

The MGL-3P is designed for secure and reliable machine safety. This advanced electromagnetic safety switch features an RFID coded sensor and robust guard locking mechanism, ensuring that only authorized access is granted. With a holding force of up to 1000N, the MGL-3P provides unmatched security and peace of mind in industrial settings.

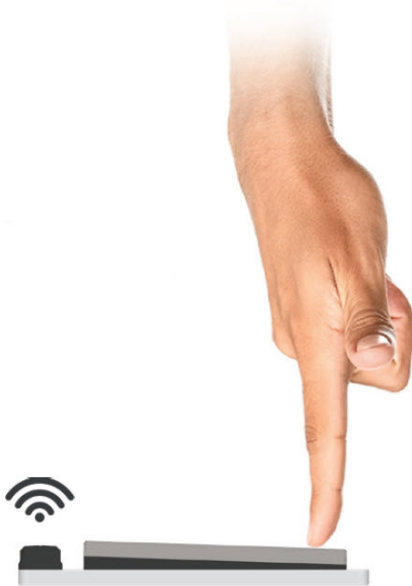
Designed for maximum versatility, the MGL-3P offers multiple mounting points, making it adaptable to a wide range of applications and easy to integrate into existing systems. Its userfriendly installation process allows for quick setup and secure attachment, saving you time and effort.

Features

- Robust polyester housing with metal mounting plate
- High coded RFID in accordance with EN ISO 14119
- 40mm profile and side mounting points for easy installation
- Spring loaded actuator for protection against high impacts
- Large wrap-around LED for instant visibility of device status from all angles
- Quick Installation with integrated M12 connector

IDEM Non-Contact RFID Magnet Locking Safety Switches Selection Guide

Part Number	Price	Actuator Type	Housing Material	Holding Force	Safety Output Type	Monitoring Output Type	Drawing
<u>MGL-3P-M-467006</u>	\$513.00	Non-oncontact master coded RFID	Polyester	1000N	(2) N.C.	(1) status	<u>PDF</u>
<u>MGL-3P-U-467003</u>	\$513.00	Non-oncontact uniquely coded RFID	Polyester	1000N	(2) N.C.	(1) status	<u>PDF</u>



Flexible actuator provides resistance to high-impact scenarios when closing the guard door.



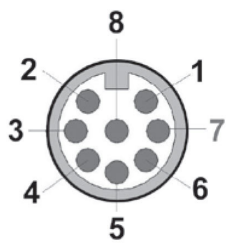
Fixed or adjustable mounting points for direct installation onto guard frames.

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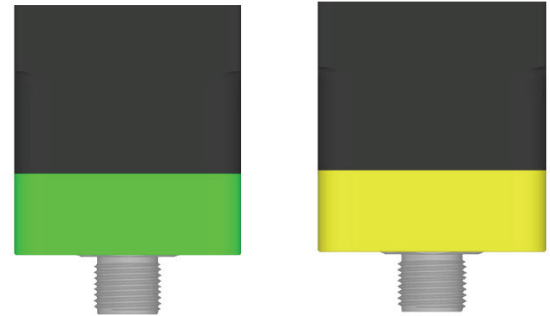
One of the standout features of the MGL-3P is its large LED lens, strategically located at the bottom of the switch. This LED provides clear and comprehensive visibility of the device status from all angles, ensuring that operators can easily monitor the system's condition at a glance. Whether you're managing a complex assembly line or a single workstation, the MGL-3P's LED indicator helps maintain safety and efficiency.

Connectivity



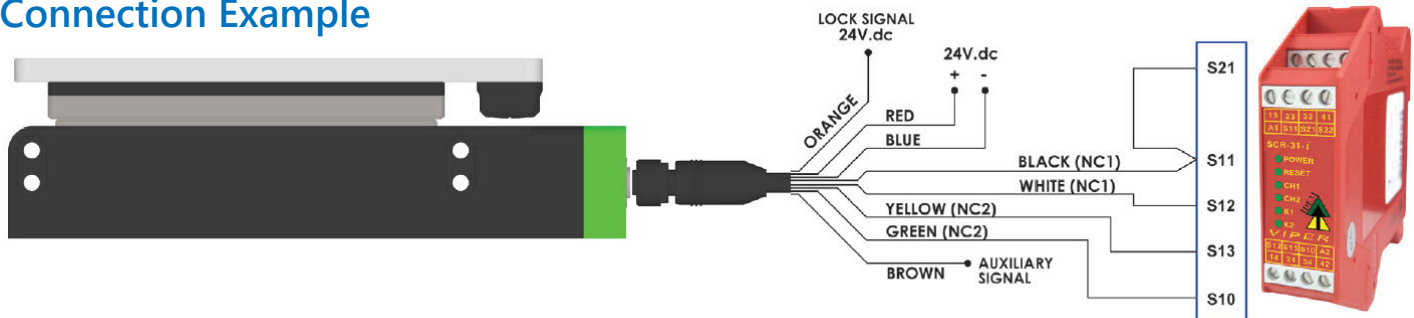
Quick Connect (QC) M12 8-Pin Male	Switch Circuit
3	0 VDC
2	24 VDC
8	Lock Applied (24 VDC)
7	Safety Output 1
1	Safety Output 1
4	Safety Output 2
6	Safety Output 2
5	Auxiliary Signal

Indication (360° visibility)



Switch Status	Guard	Green LED	Yellow LED
Locked	Closed	Steady	Off
Solenoid Power OFF (Unlocked)	Closed	Flashing	Off
Guard Open	Open	Off	Steady
Door Forced Open	Open	Off	Flashing

Connection Example



The MGL-3P will connect to the majority of popular standard safety relays to achieve up to PLe/Category 4 to ISO13849-1. Requires dual channel monitoring as shown here.

Accessories

IDEM MGL-3P Series Gate Box Accessories Selection Guide					
Part Number	Price	Description	Material	Fits	Drawing
467200	\$44.50	Mounting bracket	Stainless steel	MGL-3P safety switch	PDF
MGL-3P-467102	\$90.00	Replacement safety switch actuator	Polyester	MGL-3P safety switch	PDF



467200



MGL-3P-467102

IDEM Non-Contact RFID Magnetic Locking Safety Switches



IDEM Non-Contact RFID Locking Switches Specifications				
	MGL-1SS / MGL-2SS	MGL-1M / MGL-2M	MGL-1P / MGL-2P	MGL-3P
Body Material	316 stainless steel	Die cast metal	Polyester plastic	Polyester plastic
Safety Classification and Reliability Data				
Minimum Switched Current	1 mA @ 10 VDC			
Dielectric Withstand	250 VAC			
Insulation Resistance	100 MΩ			
Switching Distance Sao (Sensing Assured Operating)	1mm [0.04in] close			
Switching Distance Sar (Sensing Assured Release)	10mm [0.40in] open			20mm [0.79in] open
Tolerance to Misalignment	5mm in any direction from 5mm setting gap			
Switching Frequency	1.0 Hz maximum			
Approach speed	200 mm/s to 1000 mm/s			
Temperature Range	-25 to +40 °C [-13 to 104 °F]			
Enclosure Protection	IP69K	IP67		
Connection Type	Cable, PVC, 8-wire, 6mm OD			M12 8-pin connector
Mounting Screws	2 x M5 Tightening torque 1 N•m (0.74 lb•ft)			2 x M5 Tightening torque 2 N•m (1.48 lb•ft)
Mounting Position	Any			
Characteristic Data According to IEC62061 (used as a sub system)				
Safety Integrity Level	SIL3			
PFH (1/h)	4.77E-10 Corresponds to 4.8% of SIL3			
PFD	4.18E-05 Corresponds to 4.2% of SIL3			
Proof Test Interval T1	20 years			
Characteristic Data according to EN ISO13849-1*				
Performance Level	PLe, if both channels are used in combination with a SIL3/PLe control device			
Category	Cat4			
MTTFd	1100 years			
Diagnostic Coverage DC	99% (high)			
Number of operating days per year	dop = 365d			
Number of operating hours per day	hop = 24h			
B10d	No mechanical parts implemented			

*Note: When the product is used differently from these assumptions (different load, operating frequency, etc.) the values must be adjusted accordingly.

Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

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