



## MLP1

Safety switch with magnetic locking device for process protection

SAFETY LOCKING DEVICES

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Type</b>	Type 4, Transponder (EN ISO 14119)
<b>Actuator coding level</b>	Low coding level (EN ISO 14119)
<b>Type of output</b>	Semiconductor (OSSD)
<b>Locking principle</b>	Power to lock
<b>Door monitoring</b>	✓
<b>Locking force</b>	500 N
<b>Connection type</b>	Cable with plug M12, 5-pin Cable with female connector, M12, 5-pin Cable with plug M12, 8-pin (depending on type)
<b>LED</b>	✓

### Product description

The safety switch featuring a magnetic locking function is the efficient solution for applications that require process protection in addition to the safety function. The transponder safety switch uses self-monitored semiconductor outputs to guarantee maximum safety for door monitoring. What's more, a strong electromagnet ensures that the maintenance door stays closed and the production process is not interrupted. The combination of these two low-wear technologies provides high door offset tolerance and increases the availability of the machine. The innovative mounting concept and flat actuators enable optimum integration into the machine design.

### At a glance

- 500 N magnetic locking force, 25 N retaining force
- PL e / Cat. 4 (EN ISO 13849), SIL3 (EN 61508) for door monitoring
- Offset tolerance of  $\pm 5$  mm
- Enclosure rating IP 67
- Standard or integrated mounting
- Variants with two M12 plug connectors for simple cascading

### Your benefits

- Magnetic locking function prevents the protective door from being opened and therefore avoids unwanted interruption to the production process
- Maximum safety for door monitoring with two self-monitored semiconductor outputs (OSSDs)
- High level of machine availability due to large door offset tolerance
- Long product service life due to low-wear and low-maintenance configuration
- Discreet integration into the machine design thanks to innovative mounting option
- Quick connection and simple cascading via M12 plug connector reduce costs and the amount of wiring required
- Flat actuator without protruding parts minimizes risk of injury

### Fields of application

- Protection of people in applications which do not involve overrun movements
- Process protection for automated production systems
- Applications where precise guidance of the protective door is not permitted

## Ordering information

Other models and accessories → [www.sick.com/MLP1](http://www.sick.com/MLP1)

Connection type	Safe series connection	Type	Part no.
Cable with plug M12, 5-pin	No	MLP1-SMMA0AC	1077943
Cable with plug M12, 5-pin, Cable with female connector, M12, 5-pin	Direct (without diagnostics)	MLP1-SMMC0AC	1077942
Cable with plug M12, 8-pin	With T-connector (without diagnostics), with Flexi Loop (with diagnostics)	MLP1-SMMF0AC	1080321

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)