



## L41

Universal use up to type 4 with safe control solutions from SICK

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Safety level</b>	PL e, SIL 3, Type 4
<b>Scanning range</b>	7 m ... 84 m (depends on variant)
<b>Light sender/type of light</b>	LED / visible red light
<b>Construction size</b>	M18 / M30, 107.7 mm / 97.7 mm / 100 mm / 85.3 mm (depends on variant)
<b>Supply voltage</b>	24 V DC (19.2 V DC ... 28.8 V DC)
<b>Enclosure rating</b>	IP67 (EN 60529)
<b>Ambient operating temperature</b>	-40 °C ... +55 °C

## Product description

The L41 single-beam photoelectric safety switch consists of a sender and a receiver. The test input of the sender supports direct functional testing. Performance level PL e to EN ISO 13849 or Type 4 to IEC 61496 can be achieved in conjunction with an evaluation unit. Suitable evaluation units include Flexi Classic or Flexi Soft. Color LEDs provide local information about the operational status. The required sensing range can be selected from various device versions. All devices are suitable for applications in challenging ambient conditions and enable even complex protection tasks to be accomplished by using deflector mirrors.

## At a glance

- Type 4 (IEC 61496), SIL3 (IEC 61508), PL e (EN ISO 13849), only in conjunction with suitable testing device, e.g., Flexi Classic or Flexi Soft
- Small M18 sensors with ranges up to 10 m
- Compact M30 sensors with ranges up to 60 m
- Enclosure rating IP 67
- Temperature range from -40 °C ... +55 °C
- Radial optics (90° deflector mirror)

## Your benefits

- Easy integration due to small, compact versions with maximum range
- Directly connect to a safety controller – reducing costs
- Flexible device integration makes it possible to set up individual access protections
- Well suited to withstand extreme ambient conditions such as heat, cold or moisture

## Fields of application

- Access or area protection on machining centers and robot cells
- Monitoring of doors and service openings on machines
- Optical safety edges for protecting automated guided vehicles

## Ordering information

Other models and accessories → [www.sick.com/L41](http://www.sick.com/L41)

Scanning range	Model	Housing material	Sender		Receiver	
			Type	Part no.	Type	Part no.
7 m	M18 radial	Nickel-plated brass	L41S-11MA1A	6034868	L41E-11MA1A	6034869
			L41S-11MA1B	6090260	L41E-11MA1B	6090261
16 m	M18 axial	Nickel-plated brass	L41S-21MA1A	6034866	L41E-21MA1A	6034867
			L41S-21MA1B	6090258	L41E-21MA1B	6090259
			L41S-21MA2B	6084733	L41E-21MA2B	6084734
		Plastic	L41S-21KA1A	6034864	L41E-21KA1A	6034865
84 m	M30 axial	Nickel-plated brass	L41S-33MA2A	6034863	L41E-33MA2A	6034862

## 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)