L4000 Systems

Complete system that is highly reliable and offers fast response times

SICK
Sensor Intelligence.

L4000 Systems

Technical data overview

Safety level	PL e, SIL 3, Type 4
Scanning range	7 m ... 84 m (depending on type)
Construction size	M18 / M30, 107.7 mm97.7 mm100 mm (depending on type)
Supply voltage	24 V DC (19.2 V DC ... 28.8 V DC)
Enclosure rating	IP67 (EN 60529)
Ambient operating temperature	–20 °C ... +55 °C

Product description

The L4000 system consists of the UE401 safety evaluation device and photoelectric safety switches. The UE401 safety evaluation device functions as the link between the photoelectric safety switches and the machine controller. It makes it possible to connect up to 4 sensor pairs (sender/receiver combination) or up to 8 cascaded sensor pairs. Color LEDs provide local information about the operational status. Quickly see diagnostic data using status and error messages on the 7-segment display of the UE401 safety evaluation unit . Even complex protection tasks can be performed due to the ability to connect up to 8 sensor pairs, a range of versions that can be selected according to requirements, suitability for outdoor applications and the use of deflector mirrors.

At a glance

- Type 4 (IEC 61496), SIL3 (IEC 61508), PL e (EN ISO 13849), only in conjunction with UE401
- 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 –20 °C ... 55 °C
- Narrow evaluation device (22.5 mm) with external device monitoring (EDM) and restart interlock (RES)
- Fast response time of max. 30 ms
- Up to 8 sensors can be cascaded

Your benefits

- Easy integration due to small, compact designs with maximum scanning range
- Flexible device integration makes it possible to set up individual access protections
- Fast response times reduce the safety distances and save production space
- Well-suited to extreme ambient conditions such as heat, cold or moisture
- Simple configuration without additional auxiliary means, only with the help of jumpers

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/L4000_Systems

Scanning range	Model	Housing material	Sender		Receiver	
			Type	**Part no.**	**Type**	**Part no.**
7 m	M18 radial	Nickel-plated brass	L40S-11MA1A	6027341	L40E-11MA1A	6027342
16 m	M18 axial	Nickel-plated brass	L40S-21MA1A	6027339	L40E-21MA1A	6027340
		Plastic	L40S-21KA1A	6027337	L40E-21KA1A	6027338
84 m	M30 axial	Nickel-plated brass	L40S-33MA2A	6027335	L40E-33MA2A	6027336

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**

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