M2000 Cascadable

Flexible integration with cascadable safety solutions

SICK
Sensor Intelligence.

M2000 Cascadable

Technical data overview

Safety level	PL c, SIL 1, Type 2
Scanning range	25 m
Number of beams	2 ... 9 (depending on type)
Beam separation	116 mm ... 500 mm (depending on type)
Enclosure rating	IP65

Product description

The M2000 Cascadable multiple light beam safety device is an economical solution for one-sided or multi-sided access protection. With the M2000 Cascadable, up to three devices can be connected in a cascadable system. This reduces wiring costs and enables flexible integration into existing applications. The functions are easy to understand and the mechanical and electrical interfaces are simple to manage. Integrated functions and status information enable quick commissioning and minimize machine downtime. The modularity of the M2000 Cascadable enables the sensor to adapt to the application requirements. In addition, sens:Control devices, accessories, and services complete the product offering and form packaged solutions designed specifically for industrial environments.

At a glance

- Type 2 (IEC 61496), PL c (EN ISO 13849)
- Robust, industrial housing
- 7-segment display
- Scanning range up to 25 m
- External device monitoring (EDM) and internal self-testing (configurable without PC)
- Beam coding for correct system allocation
- Standardized M12 connectivity
- Cascade up to three systems

Your benefits

- The wide scanning range allows the device to be customized according to the application
- Robust design with a high level of resistance to environmental changes ensures high machine availability, even under special ambient conditions
- Customer-friendly interfaces and status display simplify commissioning and maintenance
- Reduced downtime due to diagnostics displays located directly on the device
- Minimal required installation: cascading two or three systems shortens cable paths, minimizes wiring costs and provides installation flexibility
- Fast start-up times due to easy alignment using the optional laser alignment aid (separate accessories)

Fields of application

- Customized solutions
- Stone and ceramic processing machines
- Printing and paper industry
- Wood machining and packaging machinery
- Storage and conveyor
- Presses and shears

Ordering information

Other models and accessories ➜ www.sick.com/M2000_Cascadable

- **System connection:** Hirschmann plug M26, 7-pin, Hirschmann male connector M26, 12-pin

Number of beams	Beam separa-tion or resolution	Sender		Receiver	
		Type	Part no.	Type	Part no.
2	500 mm	M20S-02150A220	1018031	M20S-02150A221	1018032
3	400 mm	M20S-03140A220	1018033	M20E-03140A221	1018034
4	300 mm	M20S-04130A220	1018216	M20E-04130A221	1018217
7	170 mm	M20S-071A3A220	1018224	M20E-071A3A221	1018225
8	116 mm	M20S-081A2A220	1018228	M20E-081A2A221	1018229
	170 mm	M20S-081A3A220	1018232	M20E-081A3A221	1018233
9	170 mm	M20S-091A3A220	1018035	M20E-091A3A221	1018036

- **System connection:** male connector M12, 8-pin

Number of beams	Beam separa-tion or resolution	Sender		Receiver	
		Type	Part no.	Type	Part no.
2	500 mm	M20S-02150A222	1018212	M20E-02150A222	1018213
3	400 mm	M20S-03140A222	1018214	M20E-03140A222	1018215
4	300 mm	M20S-04130A222	1018218	M20E-04130A222	1018219
7	170 mm	M20S-071A3A222	1018226	M20E-071A3A222	1018227
8	116 mm	M20S-081A2A222	1018230	M20E-081A2A222	1018231
	170 mm	M20S-081A3A222	1018234	M20E-081A3A222	1018235
9	170 mm	M20S-091A3A222	1018236	M20E-091A3A222	1018237

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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