M2000 Standard

Economical solution for one-sided or multi-sided protection

SICK
Sensor Intelligence.

M2000 Standard

Technical data overview

Safety level	PL c, SIL 1, Type 2
Scanning range	25 m / 70 m (depending on type)
Number of beams	2 ... 9 (depending on type)
Beam separation	116 mm ... 500 mm (depending on type)
Enclosure rating	IP65
Ambient operating temperature	0 °C ... +55 °C

Product description

The M2000 Standard multiple light beam safety device is an economical solution for one-sided or multi-sided access protection. High scanning ranges and high signal reserves open a wide range of application possibilities, even under harsh ambient conditions. 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 Standard 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 enivronments.

At a glance

- Type 2 (IEC 61496), SIL1 (IEC 61508), PL c (EN ISO 13849)
- Robust, industrial housing
- Wide scanning range, up to 70 m
- External device monitoring (EDM) and internal self-testing configurable without PC
- Standardized M12 connectivity available
- 7-segment display
- Beam coding for correct system allocation

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
- Customized protection field adaption with deflection mirror reduces installation costs
- Customer-friendly interfaces and status display simplify commissioning and maintenance
- Reduced downtime due to diagnostics displays located directly on the device
- Fast start-up times due to easy alignment using the optional laser alignment aid (separate accessories)

Fields of application

- Access protection on stone and ceramic processing machines
- Access protection on print, paper, and packaging machinery
- Access protection on wood machining
- Storage and conveyor
- Protective device for narrow aisles
- Rear area protection on presses and shears

Ordering information

Other models and accessories ➜ www.sick.com/M2000_Standard

- **System connection:** Hirschmann plug M26, 7-pin

Number of beams	Beam separa-tion or resolution	Sender		Receiver	
		Type	Part no.	Type	Part no.
2	500 mm	M20S-02150A120	1016405	M20E-02150A120	1016421
		M20S-02250A120	1018172	M20E-02250A120	1018173
3	400 mm	M20S-03140A120	1016428	M20E-03140A120	1016429
		M20S-03240A120	1018176	M20E-03240A120	1018177
4	300 mm	M20S-04130A120	1016509	M20E-04130A120	1016510
		M20S-04230A120	1018180	M20E-04230A120	1018181
6	170 mm	M20S-061A3A120	1016446	M20E-061A3A120	1016447
7	170 mm	M20S-071A3A120	1016434	M20E-071A3A120	1016435
8	116 mm	M20S-081A2A120	1016438	M20E-081A2A120	1016439
	170 mm	M20S-081A3A120	1016440	M20E-081A3A120	1016441
9	170 mm	M20S-091A3A120	1016442	M20E-091A3A120	1016443

- **System connection:** male connector M12, 8-pin
- **External device monitoring (EDM):** ✓

Number of beams	Beam separa-tion or resolution	Sender		Receiver	
		Type	Part no.	Type	Part no.
2	500 mm	M20S-02150A122	1018186	M20E-02150A122	1018187
		M20S-02250A122	1018174	M20E-02250A122	1018175
3	400 mm	M20S-03140A122	1018188	M20E-03140A122	1018189
		M20S-03240A122	1018178	M20E-03240A122	1018179
4	300 mm	M20S-04130A122	1018190	M20E-04130A122	1018191
		M20S-04230A122	1018182	M20E-04230A122	1018183
6	170 mm	M20S-061A3A122	1018192	M20E-061A3A122	1018193
7	170 mm	M20S-071A3A122	1018194	M20E-071A3A122	1018195
8	116 mm	M20S-081A2A122	1018196	M20E-081A2A122	1018197
	170 mm	M20S-081A3A122	1018198	M20E-081A3A122	1018199
9	170 mm	M20S-091A3A122	1018200	M20E-091A3A122	1018201

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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