



Enhanced Laser Sentinel SLS10

958000035

SLS-M10-E-1708-E

LASER SENTINEL ENHANCED SLS10

OVERVIEW

- Almost 240 m² safely monitored, with 10 m over 275°
- Dimensions (w,d,h): 102 , 112.5, 152 mm
- Easy programming with intuitive and universal Graphic User Interface
- Advanced dust filtering
- I/O connection with standard M12 cables
- Up to 3 simultaneous safety zones
- 2 Warning zones up to 40 m
- Up to 70 zone sets
- 30/40/50/60/70/120 mm selectable detection capability
- Partial dynamic muting
- Metal brackets allowing full orientation and fast replacement
- Advanced measurement data protocol
- Colour graphic display for monitoring and diagnostics
- Speed and positional measurement with encoders input



TECHNICAL FEATURES

Features and performances

Angular resolution	0,1° .. 0,059°
Safety range (min)	0,05m

Safety range (max) [detection capability]	= 10m
warning range (max)	40m
Detectable target remission	1,8% ... 1000%
N°of simultaneous safety zone (max)	3
N°of simultaneous warning zone (max)	2
N°of zone set (max)	20 (with M12-17 poles connector); 70 (with M12-17 poles + M12-8 poles connectors)
N°of reference point set (max)	70
Response time max	Min 62 ms @5,5 m; 84 ms @9 m; 103 ms @10 m programmable
Tolerance Zone	100mm
Supplement for retroreflectors on scan plane in front of a safety zone	200mm

Safety parameters

Type	3 (EN ISO 13849-1)
SIL	2 (IEC61508)
Cat.	3 (EN ISO 13849-1)
PL	d (EN ISO 13849-1)
TM (Mission Time)	20 years (EN ISO 13849-1)

Outputs

--

Highspeed input	4
Configurable Inputs max number	12 (4 High Frequency for Encoders)
Configurable Inputs/Output max number	4
Configurable Output max number	2

Electrical data

Power Supply	16,8v <= Vdc <= 28,8v
Power consumption	8 W @24 V, Single device, without load
Protection class	III (EN/IEC 61140)

Mechanical data

Dimensions	102 x 113 x 152 mm
Material	Metal - Aluminium / PMMA
Housing material	Painted aluminium / PC
Optic window material	PMMA

Communication

Network Interfaces	10/100 Mbit/s Ethernet
--------------------	------------------------

HMI/UI

Configuration and monitoring interfaces	DL Sentinel 5.0 (with Optima Tune Technology)
LED indicators	OSSD / Warning / Interlock

Environmental data

Humidity	15 ... 95 %
Enclosure	IP 65 (EN 60529)
Operating Temperature	-10 ... 50 °C
Storage temperature	-20 ... 70 °C
Vibration Resistance	According to IEC 61496-1 (4.3.3.1;4.3.3.2;5.4.4.1) Class 3M7 (Stationary Use) Class 5M1 (Ground vehicle Installation)
Shock Resistance	According to IEC 61496-1 (4.3.3.1;4.3.3.3;5.4.4.2) IEC 61496-3 (5.4.4); IEC 60068-2-75 Class 3M7 (Stationary Use) Class 5M1 (Ground vehicle Installation)

Optical Data

Laser Wavelength	905 nm
Mono/Color	3ns
Laser class/Laserklass	CLASS 1 (EN 60825-1:2014)

Functions

Generic Alarm	available
Clean Window Alarm	available
Muting enable	available
Muting	available
Override	available
Dust Filtering	available

EDM (External Device Monitoring)	available
Partial Muting	available
Pre-alarm (warning)	available
Advanced Data transfer protocol	available
Reset(restart cycle)	available
Manual/automatic restart	available
Shut-off (mute)	available
Encoder input	available
Start-up external trigger	available
Encoder management for zone set switch (speed and positional)	available