



SLB450-ER-3-ST

- Compact design With integral evaluation
- Height range 75 m (Reserve up to 90 m)
- Automatic start or restart interlock
- Safe OSSD outputs to PLe
- Sturdy metal enclosure with M12 connector or cable
- Version with heater for outdoor applications down to -30°C
- Set-up tool and diagnostic indication

Data

Ordering data

Note (Delivery capacity)	Not available!
EAN (European Article Number)	4030661492278
eCl@ss number, Version 9.0	27-27-27-01
eCl@ss number, Version 11.0	27-27-27-01

Approval - Standards

Certificates	cULus
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General data

Standards	IEC/EN 61496-1/-2
Coding, light barrier beam	3
Enclosure material	Aluminium
Gross weight	400 g

Reaction time, maximum	21 ms
Reaction time, minimum	7 ms

General data - Features

Restart interlock (manual reset)	Yes
Beam coding available	Yes
Integral System Diagnostics, status	Yes
Integral System Diagnostics	Yes
Number of beams	1
Number of fail-safe digital outputs	2

Safety appraisal

Standards	EN ISO 13849-1 IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	$1.50 \times 10^{-8} /h$
Safety Integrity Level (SIL), suitable for applications in	3
Mission Time	20 Year(s)
Safety type in accordance with IEC 61496-1	4

Mechanical data

Detection ability for test bodies at $v = 1.6 \text{ m/s}$	100 mm
Range, protection field, minimum	300 mm
Range, protection field, maximum	75,000 mm
Wave length of the sensor	880 nm

Mechanical data - Connection technique

Terminal Connector	Connector M12
Terminal connector, Recipient	Connector plug M12, 5-pole
Terminal, Connector, Transmitter	Connector plug M12, 4-pole

Mechanical data - Dimensions

Height	126 mm
Diameter total	49 mm

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+50 °C
Storage and transport temperature, minimum	-30 °C
Storage and transport temperature, maximum	+70 °C
Protection rating	III

Electrical data

Voltage type	DC (direct current)
Switching voltage OSSD, HIGH signal	24 V
Electrical power consumption of the receiver, maximum	5 W
Electrical power consumption of the transmitter, maximum	5 W
Length of cable, maximum	100 m

Electrical data - Fail-safe digital outputs

Output current, (fail-safe output), maximum	0.2 A
Versions	p-type

Accessory

Recommended safety switchgear

PROTECT PSC1
SRB-E-204ST

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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