



SLB440-ER-3-ST

- **SLB 440 Series -**
- Compact design With integral evaluation
- Height range 75 m (Reserve up to 90 m)
- Safe OSSD outputs to PLe
- Automatic start or restart interlock
- 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

EAN (European Article Number)	4030661492353
eCl@ss number, Version 9.0	27-27-27-01
eCl@ss number, Version 11.0	27-27-27-01

Approval - Standards

Certificates	TÜV cULus EAC
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General data

Standards	EN 61496-1 EN 61496-2
Coding, light barrier beam	3

Enclosure material	Aluminium
Gross weight	170 g
Reaction time, maximum	22 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 EN 62061
Performance level, up to	e
Control category to EN13849	4
PFH-value	1.50×10^{-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 $v = 1.6$ m/s	40 mm
Range, protection field, minimum	300 mm
Range, protection field, maximum	15,000 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

Length	33 mm
Width	27.8 mm
Height	91 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

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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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