



SLB240-ER-1-ST

- **SLB 240 Series -**
- Compact design With integral evaluation
- Range 15 m
- Safe OSSD outputs to PLC
- Automatic start or restart interlock
- Sturdy metal enclosure with M12 connector or cable
- Set-up tool and diagnostic indication

Data

Ordering data

Product type description	SLB240-ER-1-ST
Article number (order number)	103013801
EAN (European Article Number)	4030661492414
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	1
Enclosure material	Aluminium
Gross weight	170 g

Reaction time, maximum	22 ms
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Reaction time, minimum	7 ms
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General data - Features

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

Standards	EN ISO 13849-1 EN 62061
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Performance level, up to	c
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Control category to EN13849	2
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PFH-value	1.50×10^{-8} /h
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Safety Integrity Level (SIL), suitable for applications in	1
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Mission Time	20 Year(s)
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Safety type in accordance with IEC 61496-1	2
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Mechanical data

Detection ability for test bodies at $v = 1.6$ m/s	40 mm
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Range, protection field, minimum	300 mm
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Range, protection field, maximum	15,000 mm
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Wave length of the sensor	880 nm
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Mechanical data - Connection technique

Terminal Connector	Connector M12
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Terminal connector, Recipient	Connector plug M12, 5-pole
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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
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Pictures

Product picture (catalogue individual photo)

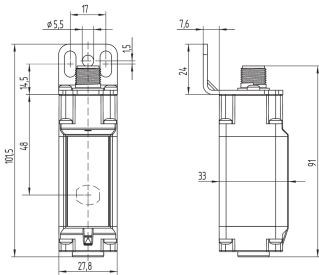


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| 335.5 kB | .jpg | 352.778 x 284.339 mm - 1000 x 806 px - 72 dpi

| 23.4 kB | .png | 74.083 x 59.619 mm - 210 x 169 px - 72 dpi

Dimensional drawing basic component



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| 178.9 kB | .ai | 210.002 x 297 mm - 595 x 841 px - 72 dpi

| 4.4 kB | .png | 74.083 x 63.5 mm - 210 x 180 px - 72 dpi

| 132.2 kB | .jpg | 352.778 x 302.331 mm - 1000 x 857 px - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, 42279 Wuppertal

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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