DATASHEET



SLB440-ER-1-ST

- 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

Product type description	SLB440-ER-1-ST
Article number (order number)	103013521
EAN (European Article Number)	4030661492339
eCl@ss number, version 12.0	27-27-27-01
eCl@ss number, version 11.0	27-27-27-01
eCl@ss number, version 9.0	27-27-27-01
ETIM number, version 7.0	EC001831
ETIM number, version 6.0	EC001831

Approvals - Standards

Certificates	TÜV cULus

General data

Standards	EN IEC 61496-2 EN IEC 61496-1

Coding, light barrier beam	1
Housing material	Aluminium
Reaction time, maximum	22 ms
Reaction time, minimum	7 ms
Gross weight	170 g

General data - Features

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

Safety classification

Standards	EN ISO 13849-1 EN IEC 62061
Performance Level, up to	e
Category	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	0.3 m
Range, protection field, maximum	15 m
Wave length of the laserdiode	880 nm

Mechanical data - Connection technique

Termination	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
Ambient temperature	-30 ... +50 °C
Storage and transport temperature	-30 ... +70 °C
Protection class	III

Electrical data

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 - Safety digital outputs

Output current, (fail-safe output), maximum	0.2 A
Design of control elements	p-type

Accessory

Recommended safety switchgear	PROTECT PSC1 SRB-E-204ST

Ordering code

Product type description:
SLB440-ER-(1)-(2)-(3)-(4)

(1)	
1	Beam coding 1
2	Beam coding 2
3	Beam coding 3
4	Beam coding 4

(2)	
ST	Termination male connector
LST	Cable with connector

(3)	
H	Alternative range

(4)	
EH	Electric heater

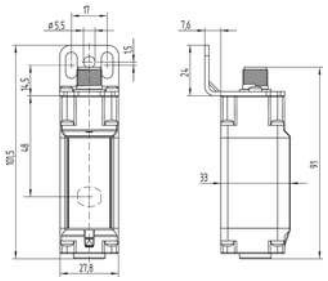
Pictures

Product picture (catalogue individual photo)



ID: kslb4f05
| 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
| 40.8 kB | .jpg | 123.472 x 99.483 mm - 350 x 282 px - 72 dpi

Dimensional drawing basic component



ID: kslb4g03
| 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

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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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