Datasheet - SLG440-ER-0500-02-01

Safety light curtains, Safety light grids / Safety light grids / SLG440

SCHMERSAL

- Safety type 4 in accordance with IEC 61496-1
- User-friendly parameter setting, no tools required
- Reliable safety concept in case of interferences (EMC, welding sparks)
- Process safety with highest availability
- Integrated set-up tool

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	SLG440-ER-0500-02-01
Article number	101216821
EAN Code	4030661415536
eCl@ss	27-27-27-03

Approval

Approval	TÜV cULus EAC

Classification

Standards	EN ISO 13849-1, EN 62061
PL	up e
Control category	up 4
PFH value	5.14×10^{-9} /
SIL	up 3
Mission time	20 Years

Global Properties

Permanent light	SLG440 Sicherheits-Lichtgitter
Standards	EN 61496-1; EN 61496-2
Compliance with the Directives (Y/N) CE	Yes
Operating resource protection class	Protection class 3
Safety type in accordance with IEC 61496-1	4
Materials	
- Material of the housings	Aluminium
Weight	900
Beam coding (Y/N)	Yes
Protection field height	500
Range of the protection field	300 - 12000
Reaction time	10
Wave length of the sensors	880
Fade-out is possible (Y/N)	No
Override possible (Y/N)	No
reduced resolution (Y/N)	No
Clock control possible (Y/N)	No
Muting possible (Y/N)	No
Restart block (Y/N)	Yes
Master/slave function	No
Cascadable (Y/N)	No
Monitoring function of downstream devices (Y/N)	Yes
Recommended safety-monitoring module	SRB 301

Mechanical data

Detection ability for test bodies	500
Number of beams	2
Design of electrical connection	Connector
- Wiring of the transmitter	connector plug M12, 4-pole
- Wiring of the receiver	connector plug M12, 8-pole
Cable length	100

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25
- Max. environmental temperature	+50
Storage and transport temperature	
- Min. Storage and transport temperature	−25
- Max. Storage and transport temperature	+70
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of output switching element OSSD	PNP
Power consumption	
- Power consumption Transmitter	< 5
- Power consumption Receiver	< 10
Voltage type	DC
Switching voltage of the OSSD in high state	24 ± 10

Outputs

Max. output current at secured output	250

Electrical data - Safety outputs

Number of secure semi-conductor outputs	2
Number of secure outputs with contact	0

LED switching conditions display

LED switching conditions display (Y/N)	Yes
- Status and diagnostics	Yes
- 7-segment display	Yes

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor	
- Width of sensor	27.8
- Height of transmitter	610
- Height of Receiver	620
- Length of sensor	33

notice

In case of failure (interruption of the 0 V supply) the maximum leakage current is 1 mA.

Included in delivery

Delivery scope of disposable system	Transmitter + receiver, Mounting angle

Ordering code

SLG 440-E/R**(1)**-01

(1)

0500-02	Distance between outermost beams 500 mm, 2-beam
0800-03	Distance between outermost beams 800 mm, 3-beam
0900-04	Distance between outermost beams 900 mm, 4-beam

Documents

Operating instructions and Declaration of conformity (en) 508 kB, 22.03.2016
Code: mrl_slg440_en

Operating instructions and Declaration of conformity (nl) 588 kB, 01.08.2018
Code: mrl_slg440_nl

Operating instructions and Declaration of conformity (de) 496 kB, 22.03.2016

Code: mrl_slg440_de

Operating instructions and Declaration of conformity (cs) 505 kB, 24.03.2014
Code: mrl_slg440_cs

Operating instructions and Declaration of conformity (fr) 521 kB, 01.08.2016
Code: mrl_slg440_fr

Operating instructions and Declaration of conformity (pt) 511 kB, 18.05.2017
Code: mrl_slg440_pt

Operating instructions and Declaration of conformity (pl) 529 kB, 01.08.2016
Code: mrl_slg440_pl

Operating instructions and Declaration of conformity (jp) 605 kB, 09.10.2017
Code: mrl_slg440_jp

Operating instructions and Declaration of conformity (es) 508 kB, 14.04.2016
Code: mrl_slg440_es

Operating instructions and Declaration of conformity (da) 551 kB, 06.09.2012
Code: mrl_slg440_da

Operating instructions and Declaration of conformity (it) 508 kB, 19.04.2016
Code: mrl_slg440_it

BG-test certificate (en, de) 1 MB, 25.03.2015
Code: z_slcp03

Brochure (it) 2 MB, 01.03.2018
Code: b_optoshort_it

Brochure (pt) 2 MB, 26.10.2018
Code: b_optoshort_pt

Brochure (es) 2 MB, 23.10.2018
Code: b_optoshort_es

Brochure (fr) 2 MB, 20.11.2018
Code: b_optoshort_fr

Brochure (en) 2 MB, 23.10.2018
Code: b_optoshort_en

Brochure (pl) 2 MB, 03.08.2018
Code: b_optoshort_pl

Brochure (de) 2 MB, 22.10.2018
Code: b_optoshort_de

Brochure (pt) 1 MB, 12.04.2018
Code: b_slc440-familie_pt

Brochure (cn) 1 MB, 12.04.2018
Code: b_slc440-familie_cn

Brochure (de) 917 kB, 04.07.2018
Code: b_slc440-familie_de

Brochure (en) 1 MB, 04.07.2018
Code: b_slc440-familie_en

Brochure (fr) 1 MB, 12.04.2018
Code: b_slc440-familie_fr

Brochure (es) 1 MB, 12.04.2018
Code: b_slc440-familie_es

Brochure (nl) 1 MB, 04.07.2018
Code: b_slc440-familie_nl

Brochure (it) 1 MB, 12.04.2018
Code: b_slc440-familie_it
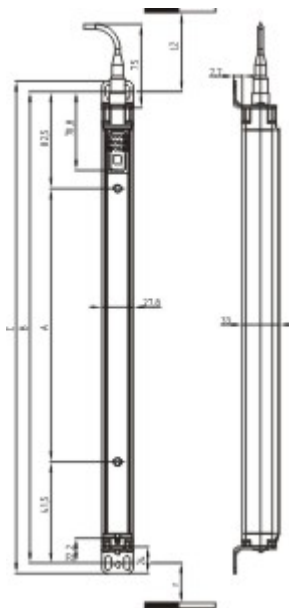
EAC certification (ru) 772 kB, 05.10.2015
Code: q_6395p17_ru

EAC certification (ru) 1 MB, 15.03.2018
Code: q_slbp01

Images

Dimensional drawing (basic component)

System components

Safety control modules

SRB 301MC

• Fit for signal evaluation of outputs of safety magnetic switches
• 3 safety contacts, STOP 0
• 1 Signalling output
• Suitable for signal processing of outputs connected to potentials
(AOPDs), e.g. safety light grids/curtains

• Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks

Connector

KA-08

• for Transmitter
• Pre-wired cable
• 4-pole
• for SLC/SLG

KA-09

• Pre-wired cable
• 8-pole
• for SLC/SLG