

Datasheet - SLC440AS-ER-1450-14



AS interface safety at work / Safety switchgear / Safety light curtains, Safety light grids /
Safety light curtains / SLC440AS



- Safety type 4 in accordance with IEC 61496-1
- Integrated AS-Interface
- Protection field height 170 mm - 1770 mm
- Configurable blanking functions
- Integrated status indicator
- Resolution 14 mm
- Range 0,3 ... 7

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

Ordering details

Product type description	SLC440AS-ER-1450-14
Article number	103007532
EAN Code	
eCl@ss	27-27-27-04

Approval


Approval



Classification

Standards	EN ISO 13849-1, EN 62061
PL	e
Control category	4
PFH value	5.17×10^{-9} /
SIL	up 3
Mission time	20 Years

Global Properties

Permanent light	SLC440AS Sicherheits-Lichtvorhang
Standards	EN 61496-1, CLC/TS 61496-2, EN ISO 13849, EN 62061, EN 50295
Compliance with the Directives (Y/N) 	Yes
Suitable for safety functions (Y/N)	Yes
Safety type in accordance with IEC 61496-1	4
Active principle	optoelectronic
Materials	
- Material of the housings	Aluminium
Weight	2300
Beam coding (Y/N)	No
Protection field height	1450
Range of the protection field	300 - 7000
Reaction time	≤ 23
Wave length of the sensors	880
Fade-out is possible (Y/N)	Yes

Mechanical data

Detection ability for test bodies	14
Number of beams	144
Design of electrical connection	Connector
- Wiring of the transmitter	connector plug M12, 4-pole
- Wiring of the receiver	connector plug M12, 5-pole
Resistance to shock	10 / 16
Resistance to vibration	10 ... 55 HZ, Amplitude 0,35 mm

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-10
- 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
Protection rating	III
Rated impulse withstand voltage	0,8
Rated insulation voltage	32
Overvoltage category	III
Degree of pollution	2

Electrical data - AS interface

AS-i Supply voltage	18.0 ... 31.6 VDC, Protection against polarity reversal
AS-i operating current	≤ 50 (Receiver)
AS-i Device insulation	internally short-circuit proof
AS-i Specification	Safety Slave
- version	V 3.0
- Profile	S-0.B.F.E
AS-i Inputs	
- Channel 1	Data bits DI 0/DI 1= dynamic code transmission
- Channel 2	Data bits DI 2/DI 3= dynamic code transmission
AS-i Outputs	DO 0 ... DO 3 not used

AS-i Parameter bits

- P0	not used
- P1	Low beam quality
- P2	not used
- P3	device error (FID)
AS-i input module address	0
- Default on address 0, programmable via the AS-Interface Master or Hand-held programming device	
notice	Set the parameter outputs to "1111" (0xF) FID: periphery error

Electrical data - Auxiliary voltage (Aux)

Supply voltage	24 (-15 / +10) stabilised PELV
Operating current Transmitter	≤ 75
Operating current Receiver	≤ 150
Device insulation	≤ 4 A (if used in accordance with UL 508)

LED switching conditions display

LED switching conditions display (Y/N)	Yes
- green/red LED (AS-i duo LED)	Supply voltage / Communication error / slave address = 0 / periphery error detected
- Status and diagnostics	Transmitter + receiver
- 7-segment display	Receiver

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 sensor (Receiver)	1583
- Height of sensor (Transmitter)	1563
- Length of sensor	33

Documents

Operating instructions and Declaration of conformity (en) 480 kB, 17.10.2018

Code: mrl_slc-slg440as_en

Operating instructions and Declaration of conformity (pl) 518 kB, 21.11.2016

Code: mrl_slc-slg440as_pl

Operating instructions and Declaration of conformity (it) 507 kB, 21.11.2016

Code: mrl_slc-slg440as_it

Operating instructions and Declaration of conformity (de) 495 kB, 17.10.2018

Code: mrl_slc-slg440as_de

Operating instructions and Declaration of conformity (jp) 636 kB, 24.06.2014

Code: mrl_slc-slg440as_jp

Operating instructions and Declaration of conformity (cs) 507 kB, 20.04.2016

Code: mrl_slc-slg440as_cs

Operating instructions and Declaration of conformity (nl) 565 kB, 01.08.2018

Code: mrl_slc-slg440as_nl

Operating instructions and Declaration of conformity (fr) 515 kB, 18.11.2016

Code: mrl_slc-slg440as_fr

Operating instructions and Declaration of conformity (es) 514 kB, 14.10.2016

Code: mrl_slc-slg440as_es

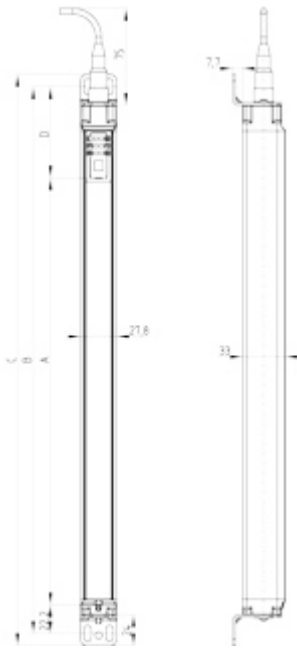
Operating instructions and Declaration of conformity (pt) 552 kB, 26.05.2017

Code: mrl_slc-slg440as_pt

BG-test certificate (de, en) 279 kB, 19.08.2014

Code: z_slcp06

Images



Dimensional drawing (basic component)

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

The data and values have been checked thoroughly. Technical modifications and errors excepted.

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