



SLC440AS-ER-1050-14

- Resolution 14 mm
- Range 0,3 ... 7
- 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

Data

Ordering data

EAN (European Article Number)	4030661449890
eCl@ss number, Version 9.0	27-27-27-04
eCl@ss number, Version 11.0	27-27-27-04

Approval - Standards

Certificates	TÜV cULus ASi-SaW EAC
--------------	--------------------------------

General data

Standards	EN 50295 EN 62061 EN 61496-1 CLC/TS 61496-2 EN ISO 13849-1
-----------	--

Active principle	optoelectronic
Enclosure material	Aluminium
Gross weight	1,830 g
Reaction time, maximum	23 ms

General data - Features

Safety functions	Yes
Hide function	Yes
7-segment display	Yes
Integral System Diagnostics, status	Yes
Number of beams	104

Safety appraisal

Standards	EN 62061
Performance level, up to	e
Control category to EN13849	4
PFH-value	5.17×10^{-9} /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	14 mm
Height of the protection field	1,050 mm
Range, protection field, minimum	300 mm
Range, protection field, maximum	7,000 mm

Wave length of the sensor	880 nm
---------------------------	--------

Mechanical data - Connection technique

Terminal Connector	Connector
Terminal connector, Recipient	Connector plug M12, 5-pole
Terminal, Connector, Transmitter	Connector plug M12, 4-pole

Mechanical data - Dimensions

Height of transmitter	1,163 mm
Height of Receiver	1,183 mm
Length of sensor	33 mm
Width of sensor	27.8 mm

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-10 °C
Ambient temperature, maximum	+50 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 0.35 mm
Resistance to shock	10 g / 16 ms
Protection rating	III

Ambient conditions - Insulation value

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III

Electrical data - AS Interface

AS-i Operating voltage, minimum	18 VDC
AS-i Operating voltage AS-i maximum	31.6 VDC
Note (AS-i Operating voltage)	Protection against polarity reversal
AS-i Current consumption, maximum	50 mA

Electrical data - AS-Interface specification

AS-i Specification	Safety-Slave
AS-i Version	V 3.0
AS-i Profile	S-0.B.F.E
AS-i Input, Channel 1	Data bits DI 0 / DI 1 = dynamic code transmission
AS-i Input, Channel 2	Data bits DI 2 / DI 3 = dynamic code transmission
AS-i Outputs, DO 0 ... DO 3	No Function
AS-i Parameter bits, P0	No function
AS-i Parameter bits, P1	Low beam quality
AS-i Parameter bits, P2	No function
AS-i Parameter bits, P3	Internal device error (FID)
Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF) FID: periphery error
AS-i Input module address	0
Note (AS-i Input module address)	Preset to address 0, can be changed through AS-interface bus master or hand-held programming device

Electrical data - Auxiliary voltage

Rated operating voltage	24 VDC -15% / +10% (stabilised PELV)
Power consumption, Receiver	150 mA
Power consumption, Transmitter	75 mA

Status indication

Note (LED switching conditions display)	Green/red LED (AS-i duo LED): Supply voltage / communication error / slave address = 0 / periphery error detected
---	---

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.

Generated on: 11/9/2021, 11:22 AM