



SLC440AS-ER-0250-14

- 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

Product type description	SLC440AS-ER-0250-14
Article number (order number)	103007438
EAN (European Article Number)	4030661447889
eCl@ss number, version 12.0	27-27-27-04
eCl@ss number, version 11.0	27-27-27-04
eCl@ss number, version 9.0	27-27-27-04
ETIM number, version 7.0	EC002549
ETIM number, version 6.0	EC002549

Approvals - Standards

Certificates	TÜV cULus ASi-SaW
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General data

Standards	CLC/TS 61496-2 EN 50295 EN IEC 62061 EN ISO 13849-1 EN IEC 61496-1
Working principle	optoelectronic
Housing material	Aluminium
Reaction time, maximum	13 ms
Gross weight	630 g

General data - Features

Safety functions	Yes
Blanking function	Yes
7-segment display	Yes
Integral system diagnostics, status	Yes
Number of beams	24

Safety classification

Standards	EN IEC 62061
Performance Level, up to	e
Category	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	250 mm
Range, protection field, minimum	0.3 m

Range, protection field, maximum	7 m
Wave length of the laserdiode	880 nm

Mechanical data - Connection technique

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

Mechanical data - Dimensions

Height of Receiver	383 mm
Length of sensor	33 mm
Width of sensor	27.8 mm
Height of the Sensor (Transmitter)	363 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-10 ... +50 °C
Storage and transport temperature	-25 ... +70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 0.35 mm
Restistance to shock	10 g / 16 ms
Protection class	III

Ambient conditions - Insulation values

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution	2

Electrical data - AS Interface

Rated operating voltage 18 ... 31.6 VDC (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

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

Status indication

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

Note

