DATASHEET

SLC440AS-ER-0970-30

- Resolution 30 mm
- Range 0,3 ... 10
- 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-0970-30
Article number (order number)	103007495
EAN (European Article Number)	4030661449869
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

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	1,730,000 g

General data - Features

Safety functions	Yes
Blanking function	Yes
7-segment display	Yes
Integral system diagnostics, status	Yes
Number of beams	48

Safety classification

Standards	EN IEC 62061
Performance Level, up to	e
Category	4
PFH value	5.17 x 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	30 mm
Height of the protection field	970 mm
Range, protection field, minimum	0.3 m

Range, protection field, maximum	10 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 transmitter	1,083 mm
Height of Receiver	1,103 mm
Length of sensor	33 mm
Width of sensor	27.8 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

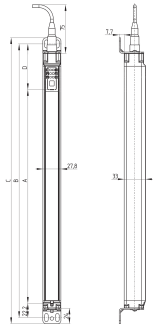
Note voltage AUX DC	stabilised PELV power supply

Pictures

Product picture (catalogue individual photo)

ID: kslc4f94
| 203.3 kB | .jpg | 352.778 x 322.439 mm - 1000 x 914 px - 72 dpi
| 13.9 kB | .png | 74.083 x 67.733 mm - 210 x 192 px - 72 dpi
| 40.1 kB | .jpg | 123.472 x 112.889 mm - 350 x 320 px - 72 dpi

Dimensional drawing basic component



ID: 5slc4g26
| 5.1 kB | .png | 74.083 x 158.75 mm - 210 x 450 px - 72 dpi
| 218.6 kB | .jpg | 352.778 x 757.061 mm - 1000 x 2146 px - 72 dpi