



SLC 420-E/R1210-14-RFB

- Protection class IP67
- Safety type 4 in accordance with IEC 61496-1
- Resolution 14, 30 and 50 mm
- Protection field height from 170 mm ... 1770 mm

Data

Ordering data

EAN (European Article Number)	4030661461410
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 EAC
--------------	---------------------

General data

Standards	IEC/EN 61496-1/-2
Enclosure material	Aluminium
Gross weight	4,910 g
Reaction time, maximum	20 ms

General data - Features

Restart interlock (manual reset)	Yes
Beam coding available	Yes
Hide function	Yes
Integral System Diagnostics, status	Yes
Integral System Diagnostics	Yes
Number of beams	120
Number of fail-safe digital outputs	2

Safety appraisal

Standards	EN ISO 13849-1 IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	6.19×10^{-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	1,210 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, 8-pole
Terminal, Connector, Transmitter	Connector plug M12, 4-pole
Length of the connectable cable, maximum	100 m

Mechanical data - Dimensions

Diameter of sensor	49 mm
Height of sensor	1,295 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
Protection rating	III

Electrical data

Voltage type	DC (direct current)
Switching voltage OSSD, HIGH signal	24 V
Electrical power consumption of the receiver	8 W
Electrical power consumption of the transmitter	4 W

Electrical data - Fail-safe digital outputs

Output current, (fail-safe output), maximum	0.5 A
Versions	p-type

Scope of delivery

Included in delivery

Kit with 2 mounting angles

Accessory

Recommended safety switchgear

SRB-E 301

Notes

Note (General)

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

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, 10:18 AM