



SLC 420-E/R1690-30-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

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
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General data

Standards	IEC/EN 61496-1/-2
Enclosure material	Aluminium
Gross weight	6,670 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	84
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	30 mm
Height of the protection field	1,690 mm
Range, protection field, minimum	300 mm
Range, protection field, maximum	10,000 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	1,775 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
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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.

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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.

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