



SLC440-ER-1690-14-01

- Safety type 4 in accordance with IEC 61496-1
- Status and diagnostics via App with bluetooth
- active integrated set-up tool
- Blanking: fixed/floating
- Double acknowledgement/reset
- Integrated contactor control
- Beam coding
- Process safety with highest availability
- User-friendly parameter setting, no tools required
- optional degree of protection IP69 with protective enclosure (accessories)

Data

Ordering data

EAN (European Article Number)	4030661458519
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	EN 61496-1 EN 61496-2
Enclosure material	Aluminium

Gross weight	2,830 g
Reaction time, maximum	28 ms

General data - Features

Restart interlock (manual reset)	Yes
Contactor control integrated	Yes
Beam coding available	Yes
Hide function	Yes
7-segment display	Yes
Integral System Diagnostics, status	Yes
Integral System Diagnostics	Yes
Bluetooth	Yes
Number of beams	168
Number of fail-safe digital outputs	2

Safety appraisal

Standards	EN ISO 13849-1 EN 62061
Performance level, up to	e
Control category to EN13849	4
PFH-value	5.14×10^{-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	1,690 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

Height of transmitter	1,771 mm
Height of Receiver	1,781 mm
Length of sensor	33 mm
Width of sensor	27.8 mm

Ambient conditions

Degree of protection	IP67 to EN 60529
Ambient temperature, minimum	-25 °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, maximum	10 W

Electrical power consumption of the transmitter, 5 W
maximum

Electrical data - Fail-safe digital outputs

Output current, (fail-safe output), maximum 0.25 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.