



SLC 420-E/R1770-50-RFB

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

Data

Ordering data

SLC 420-E/R1770-50-RFB

101207082

eCl@ss number, Version 9.0

27-27-27-04

Approval - Standards

TÜV

cULus

EAC

General data

Product name SLC 420 Safety light curtain

IEC/EN 61496-1/-2

Enclosure material Aluminium

Gross weight 6,590 g

Reaction time, maximum 10 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 44

Number of fail-safe digital outputs 2

Safety appraisal

	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), applicable for	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	50 mm
Range, protection field, minimum	300 mm
Range, protection field, maximum	10,000 mm
Height of the protection field	1,770 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	1,855 mm

Ambient conditions

Protection class	IP 67 to IEC/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
	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

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.
----------------	---

Ordering code

Product type description:

SLC 420-E/R(1)-(2)-RFB-(3)(4)

(1)

0170 Protection field height 170 mm

0250 Protection field height 250 mm

0330 Protection field height 330 mm

0410 Protection field height 410 mm

0490 Protection field height 490 mm

0570 Protection field height 570 mm

0650 Protection field height 650 mm

0730 Protection field height 730 mm

0810 Protection field height 810 mm

0890 Protection field height 890 mm

0970 Protection field height 970 mm

1050 Protection field height 1050 mm
1130 Protection field height 1130 mm
1210 Protection field height 1210 mm
1290 Protection field height 1290 mm
1370 Protection field height 1370 mm
1450 Protection field height 1450 mm
1530 Protection field height 1530 mm (only for resolution 30 mm, 50 mm)
1610 Protection field height 1610 mm (only for resolution 30 mm, 50 mm)
1690 Protection field height 1690 mm (only for resolution 30 mm, 50 mm)
1770 Protection field height 1770 mm (only for resolution 30 mm, 50 mm)

(2)

14 Resolution 14 mm
30 Resolution 30 mm
50 Resolution 50 mm

(3)

without Included in standard version

M master
S Slave (for protection field heights from 170 to 650 mm only)

(4)

without Range 0.3 m ... 7 m (only for resolution 14 mm)
without Range 0.3 m ... 10 m (only for resolution 30 mm, 50 mm)
H Range 0.3 m ... 18 m (only for resolution 30 mm)

Pictures

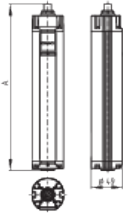
Photo/Product/Catalogue



ID: kslc4f20

| 67,9 kB | .png | 74.083 x 179.564 mm - 210 x 509
Pixel - 72 dpi
| 687,4 kB | .jpg | 257.528 x 625.122 mm - 730 x 1772
Pixel - 72 dpi

Dimension/Product/Basic



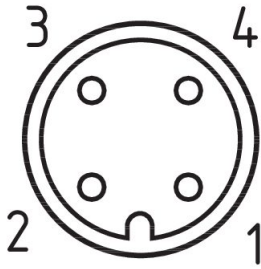
ID: 1slc4g03

| 65,5 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695
Pixel - 72 dpi

| 5,7 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi

| 52,1 kB | .cdr |

Graphic/Product/PIN



ID: km12-k4b

| 16,9 kB | .cdr |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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 2020-01-31T09:03:20+01:00Europe/BerlinSun, 31 Jan 2021 09:03:20

+010020amSunday.31am31Europe/BerlinCET0301Europe/BerlinJanuary2021Sun, 31 Jan 2021 09:03:20

+010001am31