

ONLINE DATA SHEET
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Safety light curtains
miniTwin4

C4MT-05414ABB03DE0



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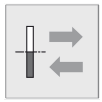
Safety light curtains
miniTwin4

Model Name > C4MT-05414ABB03DE0
Part No. > 1207103





At a glance

- Type 4 (IEC 61496), SIL3 (IEC 61508), PL e (EN ISO 13849)
- Compact cross section (15 mm x 32 mm) with no dead zones
- Cascadable twin stick design - sender and receiver in a single housing
- Customized protective field heights in 60-mm increments from 120 mm to 1,200 mm
- Typical scanning ranges 0 m ... 5 m
- Intelligent, software-free configuration of external device monitoring (EDM) and reset function (RES)
- M12, 5-pin device connection

Your benefits

- Cost-effective machine integration: its small design, cascadable features and incremental protective field heights enable a flexible adjustment to the machine design
- Standardization saves time and resources because of more straightforward logistics, order entry and service
- Simplified handling and setup: Software-free, almost fully automatic commissioning and intuitive operation with sustainable optics
- Bright LED display provides fast alignment, easy start up and clear protective field visualization ensure quick diagnostics
- End-to-end coverage in cascadable applications eliminates dead zones and shortens the safety distance, increasing productivity
- Application-specific brackets provide increased flexibility and reduce installation time



Safety-related parameters

Type:	Type 4 (IEC 61496)
Safety integrity level:	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	Standalone system: 4.3 * 1E-09 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Safe state in the event of a fault:	At least one OSSD is in the OFF state.

Functions

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Restart interlock:	✓
Restart interlock (delivery status):	Deactivated
External device monitoring (EDM):	✓
External device monitoring (delivery status):	Deactivated
Beam coding:	✓
Automatic beam coding:	✓
Cascaded:	-
Safe SICK device communication via EFI/SDL:	-

Features

Resolution:	14 mm
Protective field height:	540 mm
Scanning range:	0 m ... 4 m
Typical range:	0 m ... 5 m
Response time:	≤ 14 ms [1]
Synchronization:	Optical, without separate synchronization

[1] Standalone devices, no cascaded systems. Other response times see operating instructions.

Mechanical data

Housing cross-section (incl. system connection):	15 mm x 32 mm
Housing material:	Aluminum alloy ALMGSI 0.5
Weight:	195 g

Electrical data

Protection class:	III (EN 61140)
Supply voltage:	24 V DC (19.2 V DC ... 28.8 V DC)
Residual ripple:	≤ 10 % [1]
Power consumption:	≤ 3 A [2]
Type of output:	PNP semiconductors, short-circuit protected, cross-circuit monitored [3]
Switching voltage HIGH:	24 V DC (VS - 2.25 V DC ... VS)
Switching voltage LOW:	2 V DC
Switching current:	300 mA

[1] Within the limits of V_S [2] Maximum power consumption of a host/guest/guest system with 1,200 mm protective field height and a resolution of 14 mm [3] Applies to the voltage range between -30 V and +30 V

Interfaces

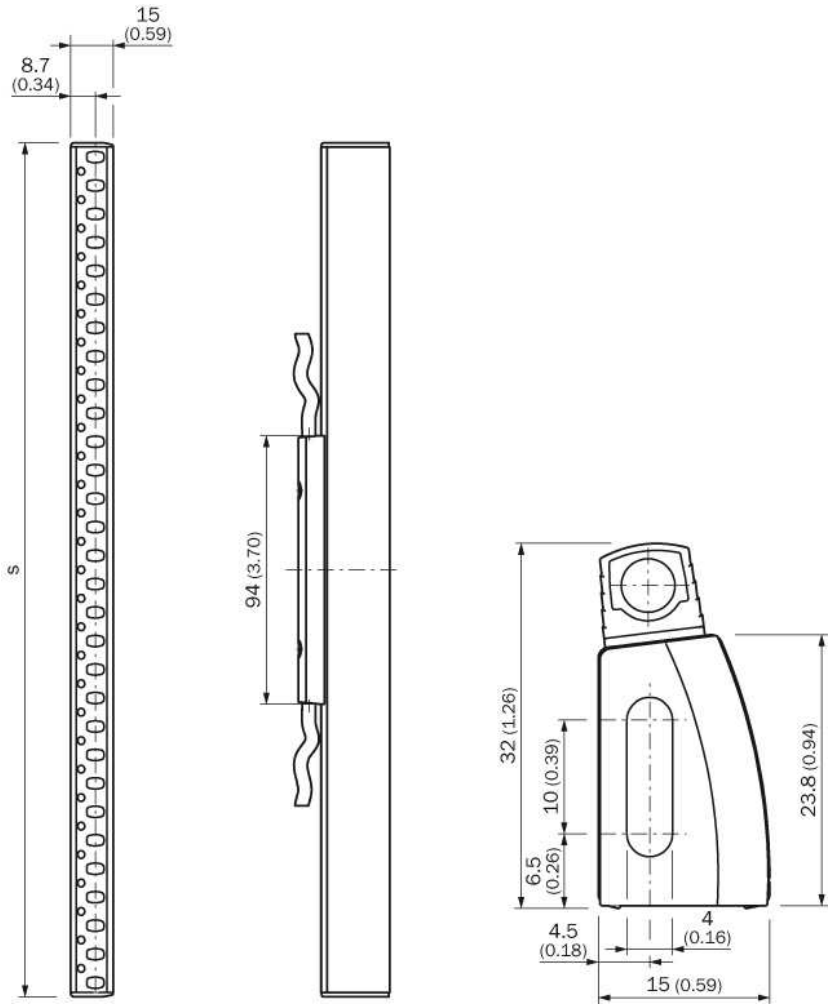
Electrical connection:	Connector M12, 5-pin
Cable length:	350 mm
Conductor cross-section:	0.34 mm²
Permitted cable length:	≤ 20 m [1]
Configuration method:	Hard wired
Display elements:	LEDs
Integration via Flexi Soft safety controller:	CANopenDeviceNetEtherCATEtherNet/IPModbus TCPPROFIBUS DPPROFINET [2]

[1] [2] For further information on Flexi Soft, please see sens:Control - safe control solutions product catalog or -> www.sick.com/FlexiSoft

Ambient data

Enclosure rating:	IP 65 (EN 60529)
Ambient operating temperature:	-20 °C ... +55 °C
Storage temperature:	-25 °C ... +70 °C
Air humidity:	15 % ... 95 %, non-condensing
Vibration resistance:	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance:	10 g, 16 ms (EN 60068-2-27)

Dimensional drawing



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