



## Safety light curtains MiniTwin2

C2MT-05424BBC03DB0



**Model Name** > C2MT-05424BBC03DB0  
**Part No.** > 1207949



#### At a glance

- Type 2 (IEC 61496), PL d (EN ISO 13849)
- Compact cross section (15 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 to 1200 mm
- Typical scanning ranges 0 ... 8 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



#### Functions

|                                               |                           |
|-----------------------------------------------|---------------------------|
| Restart interlock:                            | ✓                         |
| Restart interlock (delivery status):          | Deactivated               |
| External device monitoring:                   | ✓                         |
| External device monitoring (delivery status): | Deactivated               |
| Beam coding:                                  | ✓                         |
| Bypass (with UE402):                          | -                         |
| Operating mode switching (with UE402):        | -                         |
| Type of blanking:                             | No                        |
| Reduced resolution:                           | -                         |
| SDL interface:                                | -                         |
| Muting with:                                  | Flexi Classic, Flexi Soft |

|                                        |            |
|----------------------------------------|------------|
| Configuration method:                  | Hard wired |
| Extension connection:                  | -          |
| PSDI mode with:                        | Flexi Soft |
| Safe device communication via EFI/SDL: | -          |

#### Technical data

---

|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| Scanning range from ... to:                | 0 m ... 6 m                                   |
| Scanning range typ.:                       | 0 m ... 8 m                                   |
| Housing length:                            | 540 mm                                        |
| Weight:                                    | 195 g                                         |
| Test rate (internal test):                 | 58 /s (EN ISO 13849)                          |
| Maximum demand rate:                       | 34 /min (EN ISO 13849) <sup>1)</sup>          |
| Ambient operating temperature from ... to: | -20 °C ... 55 °C                              |
| Vibration resistance (checked to):         | 5 g (IEC 60068-2-6)                           |
| Oscillation frequency from ... to:         | 10 Hz ... 55 Hz                               |
| Response time:                             | 13 ms <sup>2)</sup>                           |
| Supply voltage typical, from, to:          | 24 V DC, 19.2 V DC, 28.8 V DC                 |
| Maximum switching current:                 | 300 mA                                        |
| Wave length:                               | 850 nm                                        |
| Maximum connection cable cross-section:    | 0.34 mm <sup>2</sup>                          |
| Mounting system type:                      | O-fix bracket                                 |
| Extension connection usage:                | Stand alone                                   |
| Resolution:                                | 24 mm                                         |
| Protective field height:                   | 540 mm                                        |
| Type:                                      | Type 2 (IEC 61496)                            |
| Safety integrity level:                    | SIL2 (IEC 61508), SILCL2 (IEC 62061)          |
| Category:                                  | Category 2 (EN ISO 13849)                     |
| Performance level:                         | PL d EN ISO 13849                             |
| PFHd:                                      | Standalone system: 2.4 * 1E-08 (EN ISO 13849) |
| TM (mission time):                         | 20 a                                          |
| Protection class:                          | III (EN 61140)                                |
| Cable length:                              | 350 mm                                        |
| Enclosure rating:                          | IP 65                                         |
| Shock resistance:                          | 10 g, 16 ms (IEC 60068-2-29)                  |
| Housing cross-section:                     | 15 mm x 32 mm                                 |

<sup>1)</sup> Between two demands on a safety-related response of the device, at least 100 internal or external tests must be carried out. <sup>2)</sup> Standalone devices, no cascaded systems. Other response times see operating instructions.

Dimensional drawing



**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)