



C4000 Fusion

Multifunctional and user friendly, high-level of availability and safe

SICK
Sensor Intelligence.



Technical data overview

| | |
|--------------------------------------|---|
| Safety level | PL e, SIL 3, Type 4 |
| Resolution | 20 mm |
| Scanning range | 21 m |
| Protective field height | 300 mm ... 1,800 mm (depending on type) |
| Enclosure rating | IP65 |
| Ambient operating temperature | 0 °C ... +55 °C |

Product description

The C4000 Fusion safety light curtain offers a variety of functions that make it ideal for a wide range of safeguarding applications. The C4000 Fusion can be used as a compact muting alternative (without additional sensors), or as a high-availability protection device for hazardous point and area protection. This solution can be customized to prevent access to machines that require product to enter/exit the area safely, where reliable differentiation between people and material is vital. Designed for use in harsh environments, the C4000 Fusion combines maximum operational safety with optimal productivity, ergonomics, and cost efficiency. Contamination can be suppressed in the monitored field and the resolution can be adjusted to protect hands or the entire person. As a result, availability of the protective device is maximized and machine and plant downtime are minimized.

At a glance

- Type 4 (IEC 61496), SIL3 (EN 62061), PL e (EN ISO 13849)
- Self-teaching and dynamic blanking for access protection related to the application
- Hand and area protection in dirty environments
- Multiple sampling
- Reduced resolution
- Fixed blanking
- 2 virtual photoelectric switches
- Integrated laser alignment

Your benefits

- Increased system productivity, since the safety light curtain is not shut down as a result of falling chips
- Dependable: skids are detected, interference objects such as cables are blanked
- Cost-effective due to the savings made on additional muting sensors or other protective measures
- Maximum safety for access protection with automated material transport – the system reliably differentiates between man and material
- Easy integration and quick commissioning save time and costs since secondary sensors are not required
- Safe: also offers protection in areas where there is no object, in contrast to conventional muting solutions
- The integrated laser alignment aid enables time-saving alignment of the sender and receiver

Fields of application

- Machine tools
- Automotive engineering and vehicle construction (incl. airplanes/ships/agricultural equipment)
- Storage and conveyor
- Wood machining

Ordering information

Other models and accessories → www.sick.com/C4000_Fusion

C4000 Fusion without extension connection

- **System connection:** Hirschmann male connector M26, 12-pin

| Resolution | Scanning range | Protective field height | Sender | | Receiver | |
|------------|----------------|-------------------------|----------------|----------|----------------|----------|
| | | | Type | Part no. | Type | Part no. |
| 20 mm | 21 m | 300 mm | C40S-0302FY010 | 1043224 | C40E-0302FY010 | 1043225 |
| | | 450 mm | C40S-0402FY010 | 1043226 | C40E-0402FY010 | 1043227 |
| | | 600 mm | C40S-0602FY010 | 1043228 | C40E-0602FY010 | 1043229 |
| | | 750 mm | C40S-0702FY010 | 1043183 | C40E-0702FY010 | 1043184 |
| | | 900 mm | C40S-0902FY010 | 1043185 | C40E-0902FY010 | 1043186 |
| | | 1,050 mm | C40S-1002FY010 | 1043187 | C40E-1002FY010 | 1043189 |
| | | 1,200 mm | C40S-1202FY010 | 1043190 | C40E-1202FY010 | 1043191 |
| | | 1,350 mm | C40S-1302FY010 | 1043192 | C40E-1302FY010 | 1043193 |
| | | 1,500 mm | C40S-1502FY010 | 1043194 | C40E-1502FY010 | 1043195 |
| | | 1,650 mm | C40S-1602FY010 | 1043196 | C40E-1602FY010 | 1043197 |
| 1,800 mm | C40S-1802FY010 | 1043198 | C40E-1802FY010 | 1043199 | | |

C4000 Fusion with extension connection on the receiver

- **System connection:** Hirschmann male connector M26, 12-pin
- **Extension connection:** Hirschmann female connector M26, 12 pin
- **Use of extension connection:** for reset, "reset required", bypass, emergency stop, teach-in

| Resolution | Scanning range | Protective field height | Sender | | Receiver | |
|------------|----------------|-------------------------|----------------|----------|----------------|----------|
| | | | Type | Part no. | Type | Part no. |
| 20 mm | 21 m | 300 mm | C40S-0302FY010 | 1043224 | C40E-0302GY010 | 1043239 |
| | | 450 mm | C40S-0402FY010 | 1043226 | C40E-0402GY010 | 1043240 |
| | | 600 mm | C40S-0602FY010 | 1043228 | C40E-0602GY010 | 1043241 |
| | | 750 mm | C40S-0702FY010 | 1043183 | C40E-0702GY010 | 1043242 |
| | | 900 mm | C40S-0902FY010 | 1043185 | C40E-0902GY010 | 1043243 |
| | | 1,050 mm | C40S-1002FY010 | 1043187 | C40E-1002GY010 | 1043244 |
| | | 1,200 mm | C40S-1202FY010 | 1043190 | C40E-1202GY010 | 1043245 |
| | | 1,350 mm | C40S-1302FY010 | 1043192 | C40E-1302GY010 | 1043246 |
| | | 1,500 mm | C40S-1502FY010 | 1043194 | C40E-1502GY010 | 1043247 |
| | | 1,650 mm | C40S-1602FY010 | 1043196 | C40E-1602GY010 | 1043248 |
| 1,800 mm | C40S-1802FY010 | 1043198 | C40E-1802GY010 | 1043249 | | |

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com