



# FLA-DIAG00001

Flexi Loop

SAFE SERIES CONNECTION / SAFETY CONTROLLERS

**SICK**  
Sensor Intelligence.



### Ordering information

| Type          | Part no. |
|---------------|----------|
| FLA-DIAG00001 | 1061714  |

Other models and accessories → [www.sick.com/Flexi\\_Loop](http://www.sick.com/Flexi_Loop)



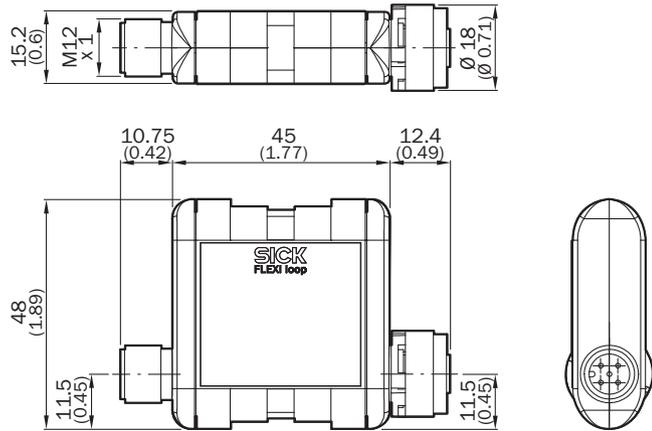
### Detailed technical data

#### Classifications

|                       |          |
|-----------------------|----------|
| <b>eCl@ss 5.0</b>     | 27371990 |
| <b>eCl@ss 5.1.4</b>   | 27371990 |
| <b>eCl@ss 6.0</b>     | 27371819 |
| <b>eCl@ss 6.2</b>     | 27371819 |
| <b>eCl@ss 7.0</b>     | 27371819 |
| <b>eCl@ss 8.0</b>     | 27371819 |
| <b>eCl@ss 8.1</b>     | 27371819 |
| <b>eCl@ss 9.0</b>     | 27371819 |
| <b>eCl@ss 10.0</b>    | 27371819 |
| <b>eCl@ss 11.0</b>    | 27371819 |
| <b>eCl@ss 12.0</b>    | 27371819 |
| <b>ETIM 5.0</b>       | EC001449 |
| <b>ETIM 6.0</b>       | EC001449 |
| <b>ETIM 7.0</b>       | EC001449 |
| <b>ETIM 8.0</b>       | EC001449 |
| <b>UNSPSC 16.0901</b> | 41113704 |

**Dimensional drawing** (Dimensions in mm (inch))

FLA-DIAG



**PIN assignment**



The FL\_IN pin assignment is only relevant for the first loop node in a safe series connection when connected to Flexi Soft. Additional Flexi Loop nodes are connected to FL\_OUT using standardized cables with M12 plug connectors.

| Con-<br>nec-<br>tion | Pin | Sig-<br>nal   | Description   | Col-<br>or-cod-<br>ed<br>con-<br>nect-<br>ing<br>cable |
|----------------------|-----|---------------|---|--|
| FL_IN                | 1   | VDC           | 24 V supply voltage                                     | Brown  |
|                      | 2   | DA-<br>TA_OUT | Output to Flexi Soft input In +1                        | White  |
|                      | 3   | GND           | GND supply voltage                                      | Blue   |
|                      | 4   | SAFE_OU       | Safe cut-off signal, out-<br>put to Flexi Soft input In | Black  |
|                      | 5   | DA-<br>TA_IN  | Input from Flexi Soft output Xn                         | Gray   |

The colors listed apply when using pre-assembled cables (no guarantee).

### Recommended accessories

Other models and accessories → [www.sick.com/Flexi\\_Loop](http://www.sick.com/Flexi_Loop)

|   | Brief description               | Type          | Part no. |
|---|---------------------------------|---------------|----------|
| Mounting brackets and plates  |                                 |               |          |
|  | 1 piece, Flexi Loop fixing clip | C-Fix bracket | 2068830  |

## 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](http://www.sick.com)