



## IFL 4-12-10STP

- Metal enclosure
- DC 3-wire
- Connector M12
- Design M12

## Data

### Ordering data

|                               |                |
|-------------------------------|----------------|
| Product type description      | IFL 4-12-10STP |
| Article number (order number) | 101098921      |
| EAN (European Article Number) | 4030661017846  |
| eCl@ss number, version 12.0   | 27-27-40-01    |
| eCl@ss number, version 11.0   | 27-27-01-01    |
| eCl@ss number, version 9.0    | 27-27-01-01    |
| ETIM number, version 7.0      | EC002714       |
| ETIM number, version 6.0      | EC002714       |

### Approvals - Standards

|              |     |
|--------------|-----|
| Certificates | CCC |
|--------------|-----|

### General data

|           |                                      |
|-----------|--------------------------------------|
| Standards | DIN VDE 0660-208<br>EN IEC 60947-5-2 |
|-----------|--------------------------------------|

|                                      |                     |
|--------------------------------------|---------------------|
| Housing construction form            | Cylinder, thread    |
| Installation conditions (mechanical) | not flush           |
| Housing material                     | Brass               |
| Housing coating material             | nickel-plated       |
| Active area                          | Plastic             |
| Material of the nuts                 | Nickel plated brass |
| Gross weight                         | 33 g                |

### General data - Features

|                                     |     |
|-------------------------------------|-----|
| Integral system diagnostics, status | Yes |
| Number of cable wires               | 3   |

### Mechanical data

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Tightening torque of nuts, maximum | 15 Nm                                |
| Note (Tightening torque of nuts)   | In the shell core area: max. 500 Ncm |

### Mechanical data - Switching distances

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Nominal switching distance $S_n$ | 4 mm                                                   |
| Note (switching distance)        | All switching distances in accordance EN IEC 60947-5-2 |

### Mechanical data - Connection technique

|             |               |
|-------------|---------------|
| Termination | Connector M12 |
|-------------|---------------|

### Mechanical data - Dimensions

|                          |       |
|--------------------------|-------|
| ISO thread of the sensor | M12   |
| width across flats       | 17 BK |
| Length of sensor         | 57 mm |

## Ambient conditions

|                          |                              |
|--------------------------|------------------------------|
| Degree of protection     | IP67                         |
| Ambient temperature      | -25 ... +70 °C               |
| Resistance to vibrations | 10 ... 55 Hz, amplitude 1 mm |
| Resistance to shock      | 30 g / 11 ms                 |
| Protection class         | 0                            |

## Electrical data

|                                        |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Type of voltage range                  | DC                                                                                                                |
| No-load supply current $I_0$ , typical | 3 mA                                                                                                              |
| Rated operating voltage                | 10 ... 30 VDC                                                                                                     |
| Operating current                      | 200 mA                                                                                                            |
| Switching element                      | Normally open contact (NO)                                                                                        |
| Protection circuit integrated          | inductive interference protection<br>Protection against polarity reversal<br>Surge protection<br>Max. fuse rating |
| Switching frequency, approx.           | 500 Hz                                                                                                            |

## Electrical data - Digital Output

|                               |        |
|-------------------------------|--------|
| Voltage drop $U_d$ , maximum  | 1.2 V  |
| Current at Voltage drop $U_d$ | 0.2 A  |
| Design of control elements    | p-type |

## Status indication

|                                             |            |
|---------------------------------------------|------------|
| Note (Integral System Diagnostics, status ) | yellow LED |
|---------------------------------------------|------------|

## Note

Note (General)

Instead of nuts, a mounting clamp can be provided.

## Ordering code

Product type description:

IFL (1)-(2)(3)-(4)(5)(6)(7)(8)-(9)

|                |                                                 |
|----------------|-------------------------------------------------|
| (1)            |                                                 |
| <b>2</b>       | Switching distance 2 mm                         |
| <b>4</b>       | Switching distance 4 mm                         |
| <b>B</b>       | Quasi-embeddable                                |
| (2)            |                                                 |
| <b>12</b>      | Cylinder, thread M12, metal                     |
| <b>120</b>     | Cylinder, thread M12, plastic                   |
| (3)            |                                                 |
| <b>without</b> | Standard body                                   |
| <b>M</b>       | Miniature body                                  |
| <b>L</b>       | Long design                                     |
| (4)            |                                                 |
| <b>01</b>      | Opener (NC)                                     |
| <b>10</b>      | Normally open contact (NO)                      |
| <b>10/01</b>   | NO contact / NC contact with wiring compartment |
| <b>11</b>      | 1 NO contact / 1 NC contact antivalent          |
| (5)            |                                                 |
| <b>without</b> | Cable                                           |
| <b>ST</b>      | Male connector                                  |
| <b>T</b>       | Conductor with strain relief                    |

(6)

without

Standard connector version

2

Alternative conector version

(7)

N

n-type

P

p-type

(8)

K

Max. fuse rating

1

pulsed

(9)

2033

Stainless steel enclosure

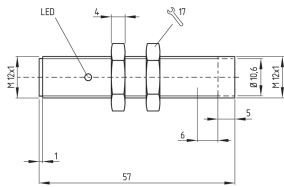
Pictures

Product picture (catalogue individual photo)



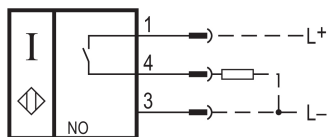
ID: kifl4f12  
| 437.3 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi  
| 44.7 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi  
| 29.4 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



ID: lifl4g15  
| 22.5 kB | .cdr |  
| 3.2 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi  
| 69.9 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Diagram



ID: id3sk09  
| 32.8 kB | .cdr |  
| 44.0 kB | .jpg | 352.778 x 146.756 mm - 1000 x 416 px - 72 dpi  
| 2.2 kB | .png | 74.083 x 30.692 mm - 210 x 87 px - 72 dpi

Schmersal, Inc., 115 E Stevens Ave, Suite 208, Valhalla, NY 10595  
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.  
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