



## IFL 2-12M-01STP

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

### Data

#### Ordering data

|                               |                 |
|-------------------------------|-----------------|
|                               | IFL 2-12M-01STP |
|                               | 101096909       |
| EAN (European Article Number) | 4030661018928   |
| eCl@ss number, Version 9.0    | 27-27-01-01     |

#### General data

|                                      |                     |
|--------------------------------------|---------------------|
|                                      | IFL - M 12          |
|                                      | IEC/EN 60947-5-2    |
|                                      | DIN VDE 0660-208    |
| Housing construction form            | Cylinder, thread    |
| Installation conditions (mechanical) | flush               |
| Enclosure material                   | Brass               |
| Enclosure coating material           | nickel-plated       |
| Active area                          | Plastic             |
| Material of the nuts                 | Nickel plated brass |
| Gross weight                         | 30.3 g              |

#### General data - Features

|                                     |     |
|-------------------------------------|-----|
| Integral System Diagnostics, status | Yes |
| Number of cable wires               | 3   |

#### Mechanical data

|                                    |       |
|------------------------------------|-------|
| Switch distance                    | 2 mm  |
| Tightening torque of nuts, maximum | 15 Nm |

Note (Tightening torque of nuts)

In the shell core area: max. 500 Ncm

### Mechanical data - Connection technique

Terminal Connector

Connector M12

### Mechanical data - Dimensions

|                    |         |
|--------------------|---------|
|                    | M12     |
| width across flats | 17 BK   |
| Length of sensor   | 45.6 mm |

### Ambient conditions

|                              |                       |
|------------------------------|-----------------------|
| Protection class             | IP 67 to IEC/EN 60529 |
| Ambient temperature, minimum | -25 °C                |
| Ambient temperature, maximum | +70 °C                |
| Protection rating            | 0                     |

### Electrical data

|                               |                                      |
|-------------------------------|--------------------------------------|
| Voltage type                  | DC (direct current)                  |
| Operating voltage, minimum    | 10 V                                 |
| Operating voltage, maximum    | 30 V                                 |
| No-load current               | 3 mA                                 |
| Operating current             | 200 mA                               |
| Switching element             | Opener (NC)                          |
|                               | inductive interference protection    |
| Protection circuit integrated | Protection against polarity reversal |
|                               | Surge protection                     |
|                               | Max. fuse rating                     |
| Switching frequency, approx.  | 1,000 Hz                             |

### Electrical data - Digital Output

|                               |        |
|-------------------------------|--------|
| Voltage drop $U_d$ , maximum  | 1.2 V  |
| Current at Voltage drop $U_d$ | 0.2 A  |
| Versions                      | p-type |

### Status indication

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

### Ordering code

Product type description:

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

(1)

**2** Switching distance 2 mm

**4** Switching distance 4 mm

**NB, MBN, BN** Quasi-embeddable

(2)

**12** Cylinder, thread M12, metal

**120** Cylinder, thread M12, plastic

(3)

**without** Standard body

**M** Miniature body

**L** Long design

(4)

**01** Opener (NC)

**10** Normally open contact (NO)

**10/01** NO contact / NC contact with wiring compartment

**11** 1 NO contact / 1 NC contact antivalent

(5)

**without** Cable

**ST** Male connector

**T** Conductor with strain relief

(6)

**without** Standard connector version

**2** Alternative connector  
version

(7)

**N** n-type

**P** p-type

(8)

**K** Max. fuse rating

**1** pulsed

(9)

**2033** Stainless steel enclosure

## Pictures

**Photo/Product/Catalogue**

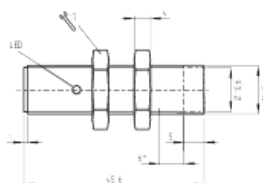


ID: kifl2f13

| 435,4 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 Pixel - 72 dpi

| 46,8 kB | .png | 74.083 x 111.125 mm - 210 x 315 Pixel - 72 dpi

## Dimension/Product/Basic



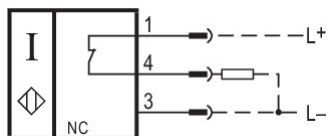
ID: lifl2g15

| 16,3 kB | .cdr |

| 3,4 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi

| 71,8 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi

## Graphic/Product/Contact



ID: id3sk10

| 43,8 kB | .jpg | 352.778 x 146.756 mm - 1000 x 416 Pixel - 72 dpi

| 32,8 kB | .cdr |

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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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