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# DATASHEET



## IFL 2-12M-01P

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

## Data

### Ordering data

| | |
|---|---|
| Product type description | IFL 2-12M-01P |
| Article number (order number) | 101097202 |
| EAN (European Article Number) | 4030661086736 |
| 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 |

### General data

| | |
|---|---|
| Standards | DIN VDE 0660-208<br>EN IEC 60947-5-2 |
| Housing construction form | Cylinder, thread |
| Installation conditions (mechanical) | flush |
| Housing material | Brass |
| Housing coating material | nickel-plated |
| Active area | Plastic |
| Material of the nuts | Nickel plated brass |

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| | |
|---|---|
| Gross weight | 74 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 according EN IEC 60947-5-3

| | |
|---|---|
| Nominal switching distance $S_n$ | 2 mm |

## Mechanical data - Connection technique

| | |
|---|---|
| Length of cable | 2 m |
| Termination | Cable |
| Wire cross-section | 0.14 $mm^2$ |
| Material of the Cable mantle | PVC |

## Mechanical data - Dimensions

| | |
|---|---|
| ISO thread of the sensor | M12 |
| width across flats | 17 BK |
| Length of sensor | 31.5 mm |

## Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature | -25 ... +70 °C |
| Protection class | 0 |

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## Electrical data

| | |
|---|---|
| No-load supply current $I_0$, typical | 3 mA |
| Rated operating voltage | 10 ... 30 VDC |
| Operating current | 200 mA |
| Switching element | Opener (NC) |
| Protection circuit integrated | inductive interference protection<br>Protection against polarity reversal<br>Surge protection<br>Max. fuse rating |
| Switching frequency, approx. | 1,000 Hz |
| Type of voltage range | DC |

## 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 |

## 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 |
| **B** | 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 conector version |

(7)

| | |
|---|---|
| **N** | n-type |
| **P** | p-type |

(8)

| | |
|---|---|
| **K** | Max. fuse rating |
| **1** | pulsed |

(9)

| | |
|---|---|
| **2033** | Stainless steel enclosure |

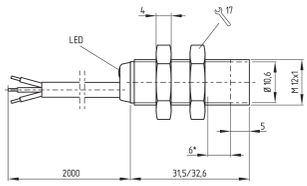
## Pictures

**Product picture (catalogue individual photo)**



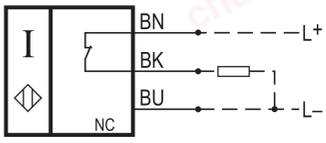
ID: kifl2f12
| 179.0 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 15.0 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 12.6 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

## Dimensional drawing basic component




ID: 1ifl2g14
| 23.3 kB | .cdr |
| 3.9 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 81.7 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Diagram




ID: id3lk06
| 32.0 kB | .cdr |
| 48.5 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 India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220
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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