



## IFL 2-12-10P

- Metal enclosure
- DC 3-wire
- Design M12

## Data

### Ordering data

Product type description	IFL 2-12-10P
Article number (order number)	101097496
EAN (European Article Number)	4030661017525
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
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### General data

Standards	DIN VDE 0660-208 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
Gross weight	78 g

### General data - Features

Integral system diagnostics, status	Yes
Cable sleeve	No
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 $S_n$	2 mm
Note (switching distance)	All switching distances in accordance EN IEC 60947-5-2

### Mechanical data - Connection technique

Length of cable	2 m
Termination	Cable
Number of cable wires	3
Wire cross-section	0.14 mm <sup>2</sup>
Material of the Cable mantle	PVC

### Mechanical data - Dimensions

ISO thread of the sensor	M12
width across flats	17 BK

Length of sensor	50 mm
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### 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	II

### Electrical data

Operating voltage	10 ... 30 VDC
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 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
Design of control elements	p-type

### Status indication

Note (Integral System Diagnostics, status )	yellow LED
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## 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)

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<b>2</b>	Switching distance 2 mm
<b>4</b>	Switching distance 4 mm
<b>B</b>	Quasi-embeddable

(2)

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<b>12</b>	Cylinder, thread M12, metal
<b>120</b>	Cylinder, thread M12, plastic

(3)

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<b>without</b>	Standard body
<b>M</b>	Miniature body
<b>L</b>	Long design

(4)

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<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)

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<b>without</b>	Cable
<b>ST</b>	Male connector
<b>T</b>	Conductor with strain relief

(6)

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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: kifl2f14

| 166.8 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi

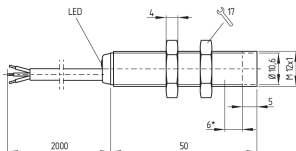
| 15.1 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi

| 11.7 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

| 8.0 kB | .png | 74.083 x 74.083 mm - 210 x 210 px - 72 dpi

| 1.3 MB | .png | 169.249 x 254 mm - 1999 x 3000 px - 300 dpi

### Dimensional drawing basic component



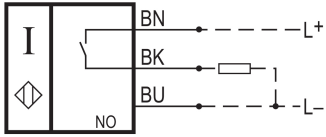
ID: lifl2g16

| 23.3 kB | .cdr |

| 3.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 71.1 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Diagram



ID: id31k05

| 31.7 kB | .cdr |

| 48.6 kB | .jpg | 352.778 x 146.756 mm - 1000 x 416 px - 72 dpi

| 2.3 kB | .png | 74.083 x 30.692 mm - 210 x 87 px - 72 dpi

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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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