DATASHEET



IFL 4B-12-10STPK1

- Metal enclosure
- DC 3-wire
- Connector M12
- higher switching distance
- Design M12

Data

Ordering data

Product type description	IFL 4B-12-10STPK1
Article number (order number)	101106015
EAN (European Article Number)	4030661048482
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 EN IEC 60947-5-2
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	Quasi-embeddable

Note (Installation condition)	Steel: x ≥ 2.4 mm Other metal: x ≥ 1.2 mm
Housing material	Brass
Housing coating material	nickel-plated
Active area	Plastic
Material of the nuts	Nickel plated brass
Gross weight	34 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	4 mm

Mechanical data - Connection technique

Termination	Connector M12

Mechanical data - Dimensions

ISO thread of the sensor	M12
width across flats	17 BK
Length of sensor	61 mm

Ambient conditions

Degree of protection	IP67

Ambient temperature	-25 ... +70 °C
Protection class	0

Electrical data

No-load supply current I_0, typical	0.5 mA
Rated operating voltage	5 ... 40 VDC
Operating current	200 mA
Switching element	Normally open contact (NO)
Protection circuit integrated	inductive interference protection Protection against polarity reversal Surge protection short-circuit protection (pulsed)
Switching frequency, approx.	600 Hz
Type of voltage range	DC

Electrical data - Digital Output

Voltage drop U_d, maximum	1.3 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)

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

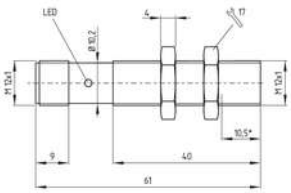
Pictures

Product picture (catalogue individual photo)



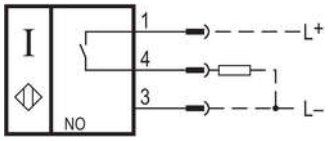
ID: kifl4f14
| 382.3 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 39.0 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 26.3 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



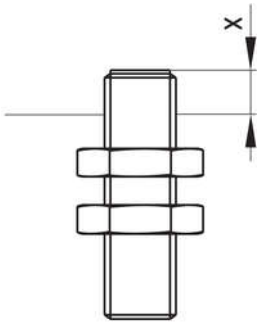
ID: 1ifl4g17
| 21.7 kB | .cdr |
| 3.3 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 72.6 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

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

Operating principle



ID: sif-1a01
| 44.6 kB | .cdr |
| 77.2 kB | .jpg | 352.778 x 442.736 mm - 1000 x 1255 px - 72 dpi
| 1.5 kB | .png | 74.083 x 92.781 mm - 210 x 263 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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