DATASHEET



IFL 4B-12-10

- Metal enclosure
- AC 2-wire
- higher switching distance
- Design M12

Data

Ordering data

Product type description	IFL 4B-12-10
Article number (order number)	101141562
EAN (European Article Number)	4030661122601
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	100 g

General data - Features

Integral system diagnostics, status	Yes
Number of cable wires	2

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

Length of cable	2 m
Termination	Cable H03VV-F
Wire cross-section	0.5 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	71 mm

Ambient conditions

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

Ambient conditions - Insulation values

Rated impulse withstand voltage U_{imp}	4 kV

Electrical data

Rated supply frequency, minimum	45 Hz
Rated supply frequency, maximum	65 Hz
Operating current, minimum	8 mA
Rated operating voltage	15 ... 250 VAC
Operating current	200 mA
Switching element	Normally open contact (NO)
Protection circuit integrated	inductive interference protection
Switching frequency, approx.	10 Hz
Type of voltage range	AC

Electrical data - Digital Output

Voltage drop U_d, maximum	3.5 V
Current at Voltage drop U_d	0.2 A
Design of control elements	Two-wire

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

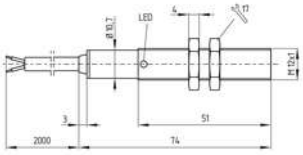
Pictures

Product picture (catalogue individual photo)



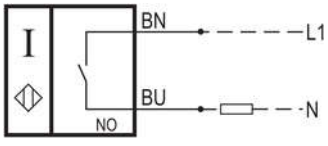
ID: kifl4f01
| 221.7 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 20.2 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 14.8 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



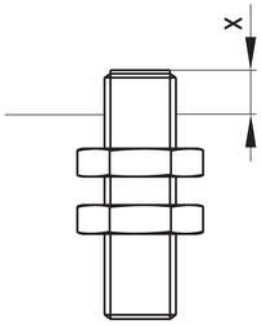
ID: 1ifl4g03
| 21.7 kB | .cdr |
| 3.3 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 68.6 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 px - 72 dpi

Diagram



ID: ia2lk01
| 29.6 kB | .cdr |
| 39.3 kB | .jpg | 352.778 x 148.167 mm - 1000 x 420 px - 72 dpi
| 2.1 kB | .png | 74.083 x 31.044 mm - 210 x 88 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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