DATASHEET



IFL 8-180M-10P

- Thermoplastic enclosure
- DC 3-wire
- miniature body
- Double-insulated
- Design M 18 x 1

Data

Ordering data

Product type description	IFL 8-180M-10P
Article number (order number)	101084078
EAN (European Article Number)	4030661019208
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 EN IEC 60947-5-2
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	not flush
Housing material	Plastic
Active area	Plastic
Material of the nuts	Plastic
Material of the washer	Perbunan®

Gross weight	97 g

General data - Features

Integral system diagnostics, status	Yes
Number of cable wires	3

Mechanical data

Tightening torque of nuts, maximum	3 Nm

Mechanical data - Switching distances according EN IEC 60947-5-3

Nominal switching distance S_n	8 mm

Mechanical data - Connection technique

Length of cable	2 m
Termination	Cable
Wire cross-section	0.34 mm^2
Material of the Cable mantle	PVC

Mechanical data - Dimensions

ISO thread of the sensor	M18
width across flats	24 BK
Length of sensor	36 mm

Ambient conditions

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

Electrical data

No-load supply current I_0, typical	3.4 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.	400 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

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)

(1)

55	Switching distance 5 mm
8	Switching distance 8 mm
10	Switching distance 10 mm

(2)

18	Cylinder, thread M18, metal
180	Cylinder, thread M18, 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
A	Alternating current/direct current AC/DC
D	DC 2-wire

(6)

without	Standard connector version
2	Alternative conector version

(7)

N	n-type
P	p-type

(8)

2033	Stainless steel enclosure
2130	Can be used up to +130 C, without LED switching conditions display

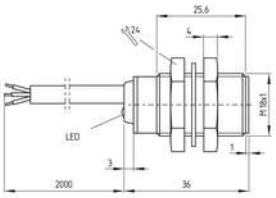
Pictures

Product picture (catalogue individual photo)



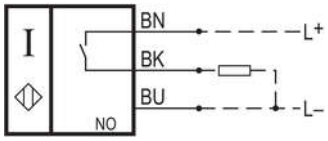
ID: kifl8f09
| 218.0 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi
| 17.0 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi
| 15.8 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

Dimensional drawing basic component



ID: 1ifl8g07
| 23.7 kB | .cdr |
| 3.5 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi
| 77.6 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Diagram



ID: id3lk05
| 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