

Datasheet - IFL 5-18-10

Inductive proximity switch / Housing construction form: cylinder, thread / IFL - M18



☒ Preferred typ



- Design M 18 x 1
- Metal enclosure
- AC 2-wire
- Double-insulated ☐

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	IFL 5-18-10
Article number	101141529
EAN code	4030661122298
eCl@ss	27-27-01-01


Approval

Approval



CCC

Global Properties

Product name	IFL - M18
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N) 	Yes
Operating resource protection class	Protection class 2
Materials	
- Material of the housings	Brass
- Material of the nuts	Brass
- Material of the cable mantle	PVC
- Material of the active surface	Plastic
Housing coating	nickel-plated

Housing construction form	cylinder, thread
Weight	125 g

Mechanical data

Design of electrical connection	Cable H03VV-F
Cable length	2 m
Conductor with strain relief	No
Conductors	2 x 0,5 mm ²
mechanical installation conditions	flush
Switch distance	5 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection
Pressure resistant (Y/N)	No
Tightening torque for nuts	A/F 24 max. 1800 Ncm

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25 °C
- Max. environmental temperature	+70 °C
Protection class	IP67 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO)
Number of wire	2 piece
Voltage type	AC, alternating current
Supply voltage U _B	
- Min. supply voltage	15 V
- Max. supply voltage	250 V
Rated supply frequency	45 ... 65 Hz
Switch frequency	approx. 10 Hz
Voltage drop U _d	approx. 4.5 V (250 V / 200 mA)
Rated impulse withstand voltage U _{imp}	4 kV
Residual current I _r	1 mA
Minimum operating current	10 mA
Operating current I _e	500 mA

Outputs

Design of control output	Two-wire
--------------------------	----------

LED switching conditions display

LED switching conditions display (Y/N)	Yes
- yellow LED	

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

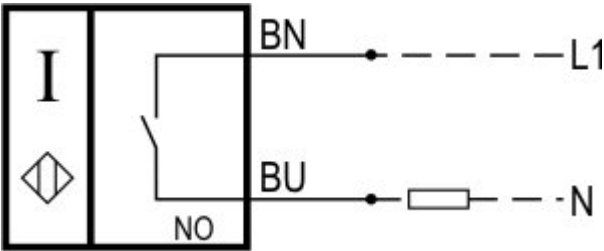
Dimensions

Dimensions of the sensor	
- Length of sensor	76 mm
- Diameter of sensor	M18

notice

Instead of nuts, a mounting clamp can be provided.

Diagram



Note Diagram

positive break NC contact

active

no active

Normally-open contact

Normally-closed contact

Ordering code

IFL (1)-(2)(3)-(4)(5)(6)(7)-(8)	
(1)	
5	Switch distance 5 mm
8	Switch distance 8 mm
10	Switch distance 10 mm
(2)	
18	cylinder, thread M18, Metal film
180	cylinder, thread M18, Plastic
(3)	
without	Included in standard version Design
M	miniature body
L	Long design
(4)	
01	Opener (NC)
10	Normally open contact (NO)
10/01	Normally open contact (NO) / Opener (NC) with Wiring compartment
11	Normally open contact (NO) / Opener (NC) antivalent
(5)	
without	Cable
ST	Connector
T	Conductor with strain relief
A	Alternating current/direct current AC/DC
D	DC 2-wire
(6)	

without	Included in standard version Plug-in connection
2	Alternative Plug-in connection
(7)	
N	n-type
P	p-type
(8)	
2033	Stainless steel enclosure
2130	Max. +130°C, without LED switching conditions display

Documents

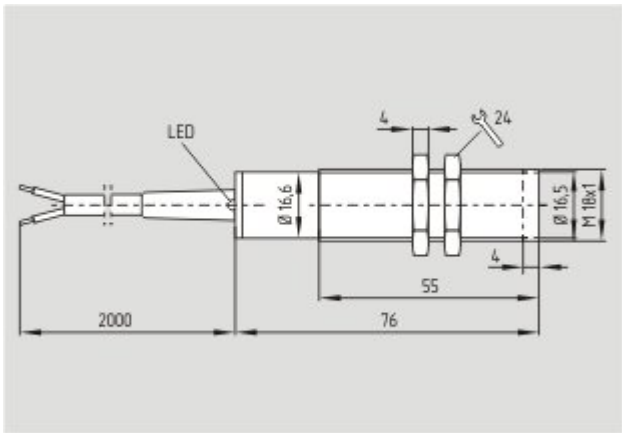
Mounting and wiring instructions (de, en, fr, it) 79 kB, 05.10.2010
Code: m_fl1p01

Declaration of conformity (en, de) 232 kB, 05.11.2013
Code: __iflp01

CCC certification (cn) 177 kB, 03.08.2015
Code: q_iflp03

CCC certification (en) 177 kB, 03.08.2015
Code: q_iflp02

Images



Dimensional drawing (basic component)

System components

Mounting accessories



101068879 - MOUNTING CLAMP H 18

- For a smooth fitting of the proximity switches with cylindric shape Ø 18 mm or thread M18

