Datasheet - IFL 20-333-10/01

Inductive proximity switch / Housing construction form: Block / IFL 333

☒ Preferred typ

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

- Design 333
- 1 Cable entry M 20 x 1.5
- Thermoplastic enclosure
- AC 2-wire
- Double-insulated ⧈

Ordering details

Product type description	IFL 20-333-10/01
Article number	101173574
EAN Code	4030661302737
eCl@ss	27-27-01-01

Approval

Approval	CCC

Global Properties

Permanent light	IFL - 333
Standards	IEC/EN 60947-5-2; DIN VDE 0660-208
Compliance with the Directives (Y/N) CE	Yes
Operating resource protection class	Protection class 2
Materials	
- Material of the housings	Plastic
- Material of the cover	Luran
Housing construction form	Block
Weight	170

Mechanical data

Design of electrical connection	Screw connection
Conductor with strain relief	No
Cable section	
- Min. Cable section	
- Max. Cable section	2 x 1.5
mechanical installation conditions	not flush
Switch distance S_n	20 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection
Pressure resistant (Y/N)	No
• Wiring compartment	

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25
- Max. environmental temperature	+70
Protection class	IP65 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO) or Opener (NC)
Number of wire	2
Voltage type	AC, alternating current
Supply voltage U_B	
- Min. supply voltage	15
- Max. supply voltage	250
Rated supply frequency	45 … 65
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 I_m	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

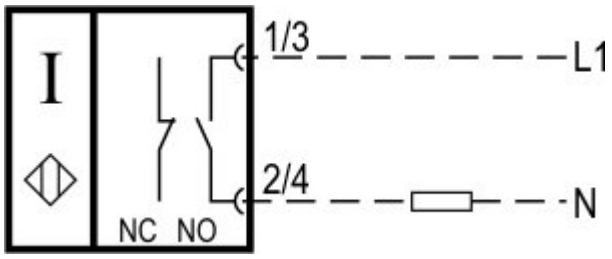
Dimensions of the sensor	

- Width of sensor	40
- Height of sensor	40
- Length of sensor	112

notice

By repositioning the switch 5 different actuating directions can be selected. The selected actuating direction can be marked with a sticker.
Programmable by repositioning the plug-in jumper at the terminal screws

Diagram



Note Diagram
positive break NC contact
active
no active
Normally-open contact
Normally-closed contact

Ordering suffix

The applicable ordering suffix is added at the end of the part number of the safety switch.
Order example: IFL 20-333-10/01**-1522**

...**-1522**	Operating current I_e: max. 150 mA Voltage drop U_d: approx. 7.5 V (150 mA)

Ordering code

IFL **(1)**-**(2)**-**(3)**(4)(5)(6)

(1)	
15	Switch distance 15 mm
20	Switch distance 20 mm
(2)	
333	Block Design, 112 x 40 x 40 mm
(3)	
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
(4)	
without	Cable
D	DC 2-wire
A	Alternating current/direct current AC/DC
(5)	

Y	Protection class IP65
Z	Protection class IP67
(6)	
N	n-type
P	p-type

Documents

Mounting and wiring instructions (de, en, fr) 80 kB, 27.09.2010
Code: m_fl3p01

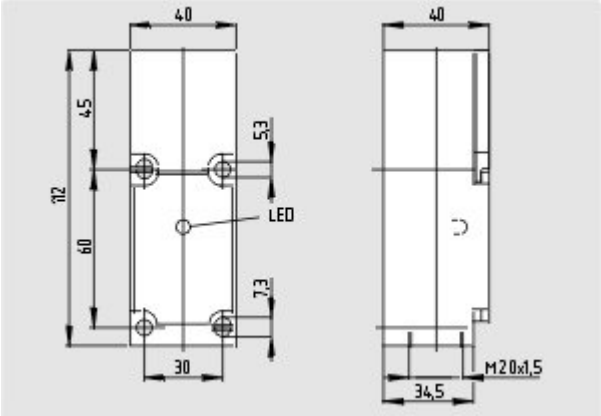
Declaration of conformity (en) 91 kB, 13.04.2017
Code: konfi_ifl_en

Declaration of conformity (de) 96 kB, 01.07.2016
Code: konfi_ifl_de

CCC certification (en) 4 MB, 11.07.2018
Code: q_iflp01

CCC certification (cn) 4 MB, 11.07.2018
Code: q_iflp04

Images



Dimensional drawing (basic component)

Operating principle