

## Datasheet - IFL 50-385-10/01

Inductive proximity switch / Housing construction form: Block / IFL 385



Preferred typ



- Design 385
- 3 Cable entry M 20 x 1.5
- Thermoplastic enclosure
- AC 2-wire
- Double-insulated

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

### Ordering details

Product type description	IFL 50-385-10/01
Article number	101173397
EAN Code	4030661302508
eCl@ss	27-27-01-01

### Approval

Approval



CCC

### Global Properties

Permanent light	IFL - 385
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	Plastic
Housing construction form	Block
Weight	420

### 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 $S_n$	50 mm
Reduction factor 1 met (Y/N)	No
Protection circuit	inductive interference protection
Pressure resistant (Y/N)	No
• Wiring compartment	

## Ambient conditions

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

## Electrical data

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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

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Design of control output	Two-wire
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## LED switching conditions display

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

## ATEX

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

## Dimensions

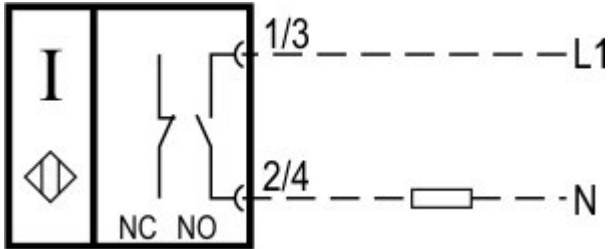
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Dimensions of the sensor	
- Width of sensor	80
- Height of sensor	135

**notice**

Programmable by repositioning the plug-in jumper at the terminal screws  
 Mounting angle HW 385-1 to simplify mounting available

**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 50-385-10/01-1522

...-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)(7)

- (1)**  
50 Switch distance 50 mm
- (2)**  
385 Block Design, 135 x 80 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
- (5)**  
Z Protection class IP67
- (6)**  
N n-type

P

p-type

(7)

2130

Max. +130°C, without LED switching conditions display

## Documents

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**Operating instructions** (nl) 134 kB, 01.08.2018

Code: mrl\_ifl-allgemein\_nl

**Operating instructions** (en) 128 kB, 31.08.2016

Code: mrl\_ifl-allgemein\_en

**Operating instructions** (pl) 137 kB, 21.10.2016

Code: mrl\_ifl-allgemein\_pl

**Operating instructions** (pt) 109 kB, 06.04.2017

Code: mrl\_ifl-allgemein\_pt

**Operating instructions** (it) 108 kB, 21.10.2016

Code: mrl\_ifl-allgemein\_it

**Operating instructions** (es) 110 kB, 21.10.2016

Code: mrl\_ifl-allgemein\_es

**Operating instructions** (cn) 177 kB, 05.05.2017

Code: mrl\_ifl-allgemein\_cn

**Operating instructions** (de) 131 kB, 31.08.2016

Code: mrl\_ifl-allgemein\_de

**Operating instructions** (fr) 110 kB, 21.10.2016

Code: mrl\_ifl-allgemein\_fr

**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

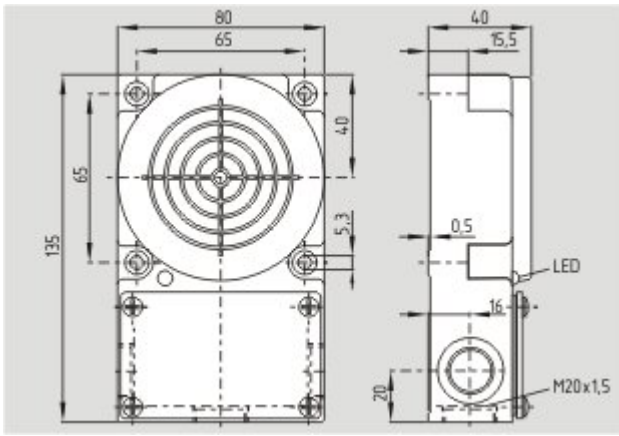
Code: q\_iflp01

**CCC certification** (cn) 4 MB, 11.07.2018

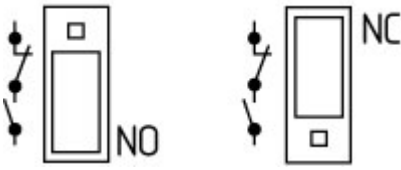
Code: q\_iflp04

## Images

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Dimensional drawing (basic component)



Operating principle

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal  
 The data and values have been checked thoroughly. Technical modifications and errors excepted.  
 Generiert am 13.02.2019 - 13:06:18h Kasbase 3.3.0.F.64I