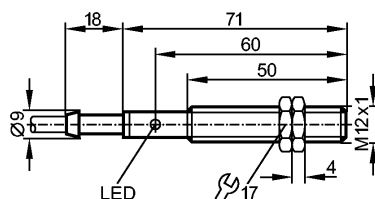


**IF5645**

IFA2002-FRKG/PH

Inductive sensors



Made in Germany

**Product characteristics**

Inductive sensor

Metal thread M12 x 1

Cable

Sensing range 2 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP/NPN
Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	normally open / closed programmable
Voltage drop [V]	< 4.6
Minimum load current [mA]	4
Leakage current [mA]	< 0.5
Current rating [mA]	400
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	1100

**Range**

Sensing range [mm]	2
Real sensing range (Sr) [mm]	2 ± 10 %
Operating distance [mm]	0...1.6

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

**Environment**

Ambient temperature [°C]	-25...80
Protection	IP 67

**Tests / approvals**

EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	1815

**Mechanical data**

Mounting	flush mountable
Housing materials	Brass white bronze coated; active face: PC (polycarbonate)

# IF5645

IFA2002-FRKG/PH

**Inductive sensors**

Weight	[kg]	0.092
--------	------	-------

## Displays / operating elements

Output status indication	LED	yellow
--------------------------	-----	--------

## Electrical connection

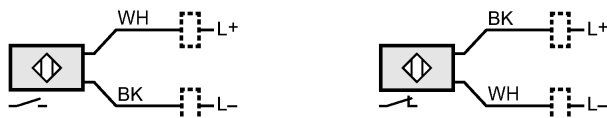
Connection	PUR / PVC cable / 2 m; 2 x 0.34 mm <sup>2</sup>
------------	---

## Wiring

Core colours

BK black

WH white



## Accessories

Accessories (included)	2 lock nuts
------------------------	-------------

## Remarks

Pack quantity	[piece]	1
---------------	---------	---