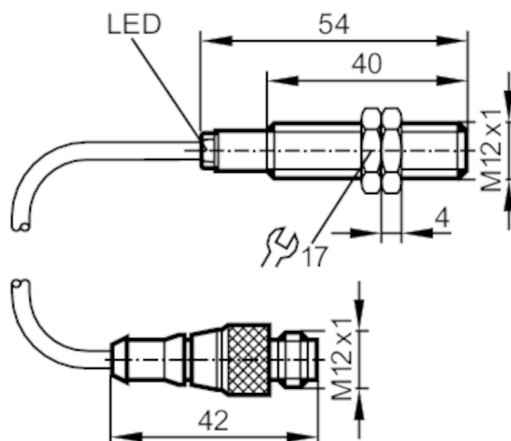


IF9920



Inductive sensor

IFB2002-ARKG/UP/0,8M/US RT



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 54

Electrical data

Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	2
Max. leakage current [mA]	0.6
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	800
Notes on switching frequency [Hz]	for I (load) ≥ 10 mA
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

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

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
-------------------	--

IF9920



Inductive sensor

IFB2002-ARKG/UP/0,8M/US RT

Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
MTTF	[years]	1912

Mechanical data

Weight	[g]	53
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 54
Thread designation		M12 x 1
Material		brass nickel-plated; PBT

Displays / operating elements

Display	Switching status	1 x LED, red
---------	------------------	--------------

Accessories

Items supplied	lock nuts: 2
----------------	--------------

Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection - plug

Cable: 0.8 m, PUR

Connector: 1 x M12; coding: A

