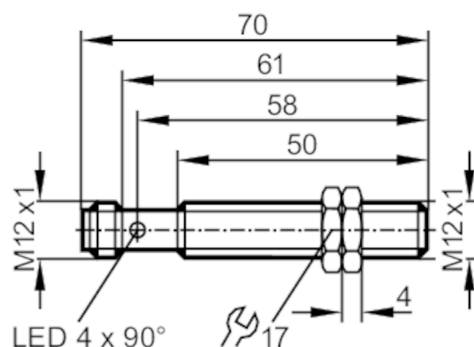


Inductive sensor

IFA4002-CPKG/US-104-DPA



Product characteristics

Electrical design	PNP
Output function	complementary
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 70

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	complementary
Max. voltage drop switching output DC [V]	3.5
Permanent current rating of switching output DC [mA]	250; (400 (...50 °C))
Short-time current rating of switching output [mA]	400
Switching frequency DC [Hz]	1200
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

IF5653



Inductive sensor

IFA4002-CPKG/US-104-DPA

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1865
Mechanical data		
Weight	[g]	29.9
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 70
Thread designation		M12 x 1
Materials		brass white bronze coated; sensing face: PC
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection

