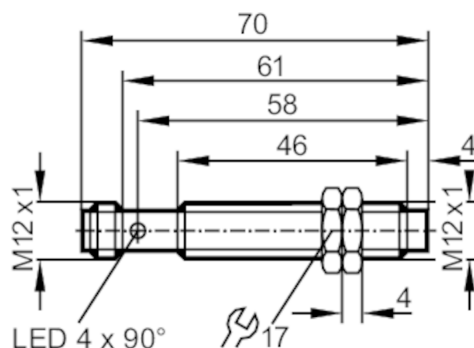


IF6012



Inductive sensor

IFA4004-CNKG/US-104-DNA



Product characteristics

Electrical design	NPN
Output function	complementary
Sensing range [mm]	4
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	NPN
Output function	complementary
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	1200
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 10 %
Operating distance [mm]	0...3.25

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of Sr]	3...15

IF6012



Inductive sensor

IFA4004-CNKG/US-104-DNA

Switch point drift	[% of Sr]	-10...10
--------------------	-----------	----------

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1429

Mechanical data

Weight	[g]	29.5
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 70
Thread designation		M12 x 1
Materials		brass white bronze coated; 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

