

IF6143



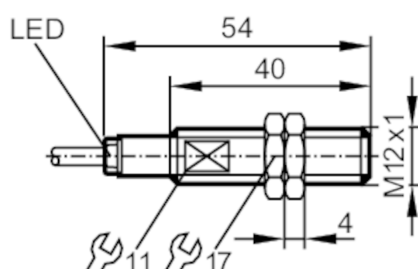
Inductive sensor

IFK4004BCPKG/2,5M/PH

Article to be discontinued
Discontinuation date: 03/31/2026

Alternative articles: IF5904

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design	PNP
Output function	complementary
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 54

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	complementary
Max. voltage drop switching output DC [V]	3.2
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Operating distance [mm]	0...3.24

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
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Hysteresis	[% of Sr]	1...15
Operating conditions		
Ambient temperature	[°C]	-40...70
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011 emission	class B
Mechanical data		
Weight	[g]	164.4
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 54
Thread designation		M12 x 1
Material		threaded sleeve: brass nickel-plated; sensing face: PBT
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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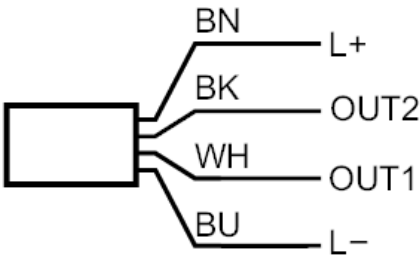
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Electrical connection

Cable: 2.5 m, PUR, Ø 5.4 mm; 4 x 0.50 mm²

Connection



Core colors :		
BN =	brown	
BK =	black	
WH =	white	
BU =	blue	
BN	L+	
BK	OUT2	DO2 (NO)
WH	OUT1	DO1 (NC)
BU	L-	
DO: digital output; NO: normally open; NC: normally closed		