

Inductive sensor

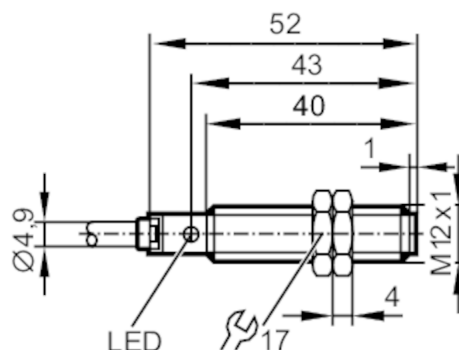
IFK3003BBPKG/V4A/6M

phase-out article

Discontinuation date: 03/31/2026

Alternative articles: IF5837

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



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	3
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 52

Application

Application	Industrial applications / factory automation
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Electrical data

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

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	400
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	3
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IF5878



Inductive sensor

IFK3003BBPKG/V4A/6M

Real sensing range Sr	[mm]	3 ± 10 %
Operating distance	[mm]	0...2.4

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	3...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	
	EN 55011	class B
MTTF	[years]	1874

Mechanical data		
Weight	[g]	258
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 52
Thread designation		M12 x 1
Materials		stainless steel (316Ti/1.4571); PBT

Displays / operating elements		
Display	switching status	1 x LED, yellow

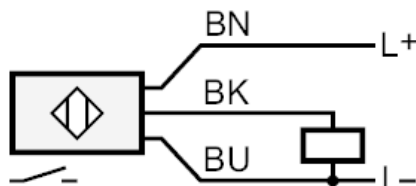
Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection		
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Cable: 6 m, PVC; 3 x 0.34 mm²

Connection		
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	Core colours :
BK =	black
BN =	brown
BU =	blue