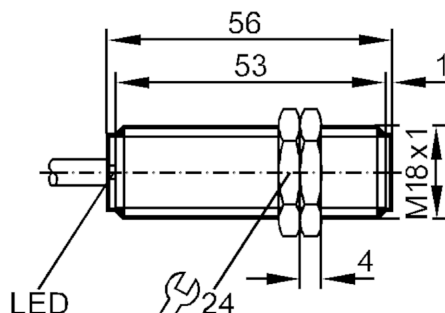




Inductive sensor

IGC2012-FRKG/PH RT



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	12
Housing	threaded type
Dimensions [mm]	M18 x 1

Electrical data

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

Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.7
Minimum load current [mA]	4
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	12
Real sensing range S_r [mm]	$12 \pm 10\%$
Operating distance [mm]	0...9.7

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10

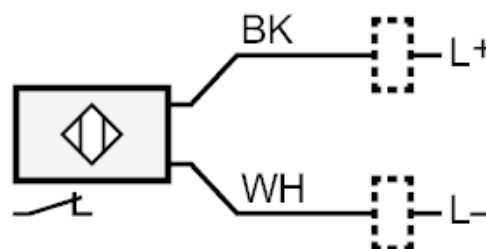
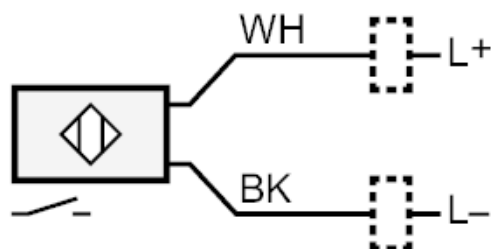
IG5919



Inductive sensor

IGC2012-FRKG/PH RT

Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1626
Mechanical data		
Weight	[g]	104
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1
Thread designation		M18 x 1
Materials		PBT
Displays / operating elements		
Display	switching status	1 x LED, red
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR; 2 x 0.5 mm ²		
Connection		



Core colours :

BK = black
WH = white