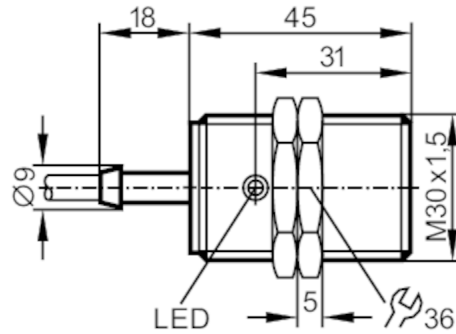




Inductive sensor

IIB2010-FRKG/PH



Product characteristics

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Sensing range [mm]	10	
Housing	threaded type	
Dimensions [mm]	M30 x 1.5 / L = 45	

Electrical data

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

Outputs

Electrical design	PNP/NPN	
Output function	normally open / normally closed; (selectable)	
Max. voltage drop switching output DC [V]	4.6	
Minimum load current [mA]	4	
Max. leakage current [mA]	0.5	
Permanent current rating of switching output DC [mA]	400	
Switching frequency DC [Hz]	450	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	

Detection zone

Sensing range [mm]	10	
Real sensing range Sr [mm]	10 ± 10 %	
Operating distance [mm]	0...8.1	

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of Sr]	1...15	
Switch point drift [% of Sr]	-10...10	

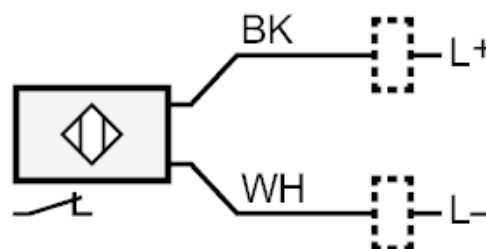
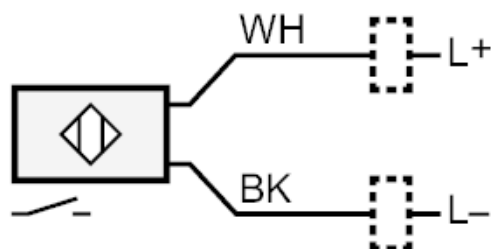
II5493



Inductive sensor

IIB2010-FRKG/PH

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1568
Mechanical data		
Weight	[g]	205
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 45
Thread designation		M30 x 1.5
Materials		brass nickel-plated; sensing face: PBT
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR / PVC; 2 x 0.5 mm ²		
Connection		



Core colours :

BK = black
WH = white