



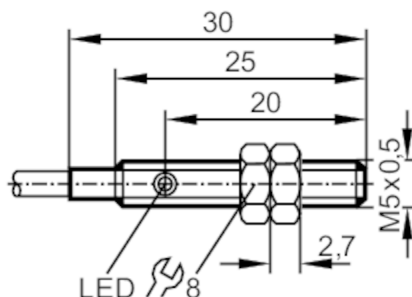
Inductive sensor

IYB20,8-BROG

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Alternative articles: IY5033

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Product characteristics

Electrical design	PNP/NPN
Output function	normally closed
Sensing range [mm]	0.8
Housing	threaded type
Dimensions [mm]	M5 x 0.5 / L = 30

Electrical data

Operating voltage [V]	10...36 DC
Reverse polarity protection	no

Outputs

Electrical design	PNP/NPN
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	1
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	0.8
Real sensing range S_r [mm]	$0.8 \pm 10\%$
Operating distance [mm]	0...0.65

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

IY5031



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Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Mechanical data		
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M5 x 0.5 / L = 30
Thread designation		M5 x 0.5
Materials		stainless steel (303/1.4305); POM
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 2 x 0.14 mm ²		
Connection		

