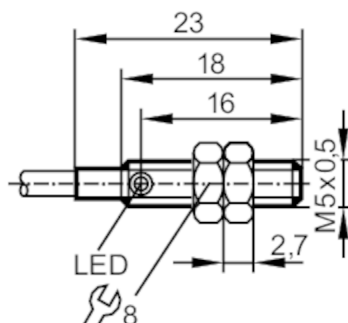


IY5051



Inductive sensor

IYB30,8-BPKG/V2A/ZS



Electrical data

Operating voltage	[V]	10...30 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]	100
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

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: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of S_r]	1...15
Switch point drift	[% of S_r]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 65

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	953

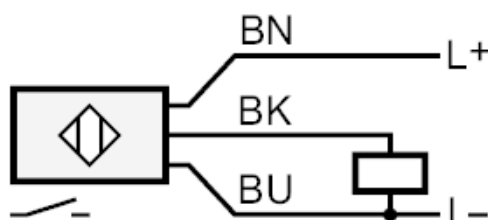
IY5051



Inductive sensor

IYB30,8-BPKG/V2A/ZS

Mechanical data		
Weight	[g]	35
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M5 x 0.5 / L = 23
Thread designation		M5 x 0.5
Materials		stainless steel (1.4305 / 303); sensing face: POM
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; for applications in permanent movement; 3 x 0.14 mm ²		
Connection		



Core colours :

BN = brown
BU = blue
BK = black