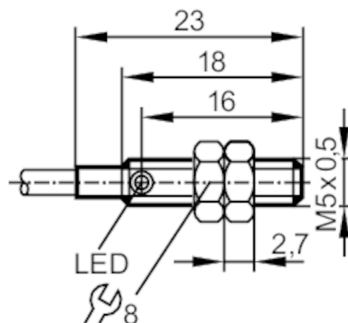


IY5052



Inductive sensor

IYB31,2-BPKG/V2A



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1.2
Housing	Threaded type
Dimensions [mm]	M5 x 0.5 / L = 23

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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	1.2
Operating distance [mm]	0...0.97

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...15

Operating conditions

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

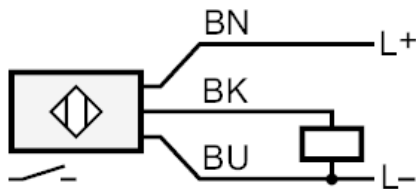
IY5052



Inductive sensor

IYB31,2-BPKG/V2A

Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	2060
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
Material		stainless steel (1.4305 / 303); sensing face: POM
Tightening torque	[Nm]	2
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, PUR; 3 x 0.14 mm²		
Connection		



BK =

BN =

BU =

Core colors :

black

brown

blue