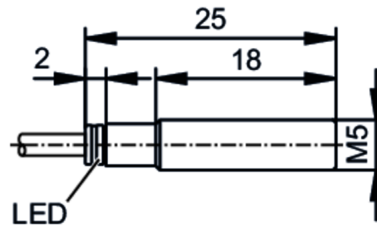


# IY5052



## 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 = 25

### 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; IP 67

# 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	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 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 = 25
Thread designation		M5 x 0.5
Material		stainless steel (1.4305 / 303); sensing face: POM
Tightening torque	[Nm]	2

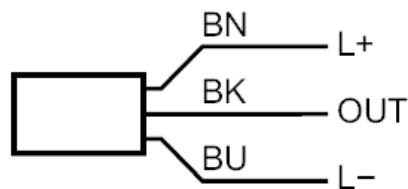
Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PUR; 3 x 0.08 mm <sup>2</sup>		

Connection		
------------	--	--



BN : brown  
BK: black  
BU: blue

BN L+  
BK OUT DO (NO)  
BU L-  
DO: digital output; NO: normally open