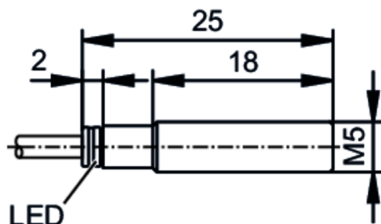




Inductive sensor

IYB30,8-BPKG/V2A/

RT



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	0.8
Housing	Threaded type
Dimensions [mm]	M5 x 0.5 / L = 25

Electrical data

Operating voltage [V]	10...36 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]	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 / aluminum: 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; IP 67

IY5046



Inductive sensor

IYB30,8-BPKG/V2A/

RT

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]	2053
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A067
	File number UL	E174191
Mechanical data		
Weight	[g]	43
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.

IY5046



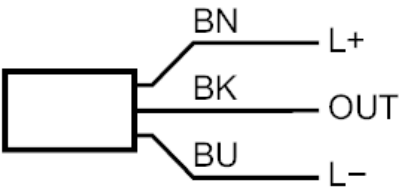
Inductive sensor

IYB30,8-BPKG/IV2A/ RT

Electrical connection

Cable: 2 m, PUR; 3 x 0.08 mm²

Connection



BN : brown
BK: black
BU: blue

BN	L+	
BK	OUT	DO (NO)
BU	L-	

DO: digital output; NO: normally open