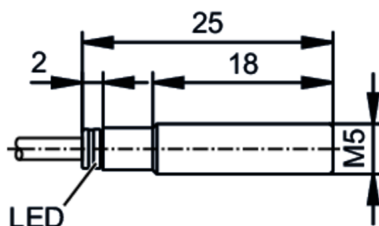


IY5033



Inductive sensor

IYB30,8-APKG/V2A



Product characteristics

Electrical design	PNP
Output function	normally closed
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 closed
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

IY5033



Inductive sensor

IYB30,8-APKG/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]	2053

Mechanical data		
Weight	[g]	42.8
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

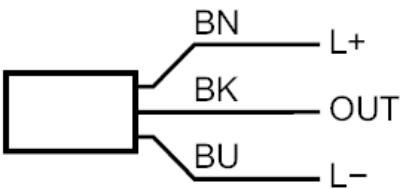
Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PUR; 3 x 0.08 mm²		

Connection		
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BN :	brown
BK:	black
BU:	blue

BN	L+	
BK	OUT	DO (NC)
BU	L-	
DO: digital output; NC: normally closed		