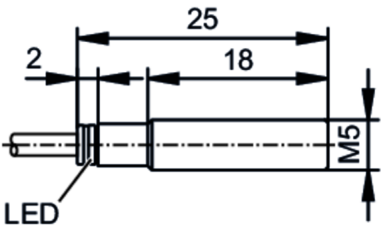


IY5068



Inductive sensor

IYB31,5-BNKG/2m



Product characteristics	
Electrical design	NPN
Output function	normally closed
Sensing range [mm]	1.5
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	NPN
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	pulsed
Overload protection	yes
Detection zone	
Sensing range [mm]	1.5
Real sensing range S_r [mm]	$1.5 \pm 10 \%$
Operating distance [mm]	0...1.2
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; IP 67

IY5068



Inductive sensor

IYB31,5-BNKG/2m

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

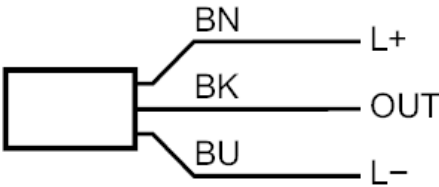
Mechanical data		
Weight	[g]	22.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M5 x 0.5 / L = 25
Thread designation		M5 x 0.5
Materials		housing: stainless steel (303/1.4305); sensing face: POM; LED ring: PA
Tightening torque	[Nm]	2

Displays / operating elements		
Display	switching status	1 x LED ring, yellow cable entry lights translucently

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

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



BN:	L+
BK:	OUT DO (NC)
BU:	L-