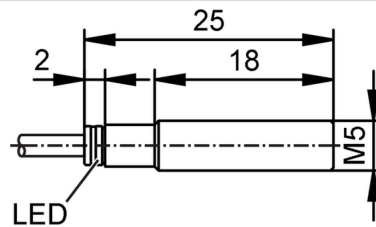


IY5069



Inductive sensor

IYB31,5-ANKG/2m



Product characteristics	
Electrical design	NPN
Output function	normally open
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 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]	1.5
Real sensing range Sr [mm]	1.5 ± 10 %
Operating distance [mm]	0...1.2

Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Operating conditions	
Ambient temperature [°C]	-25...70
Protection	IP 65; IP 67

IY5069



Inductive sensor

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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]		22.7
Housing		Threaded type
Mounting		flush mountable
Dimensions [mm]		M5 x 0.5 / L = 25
Thread designation		M5 x 0.5
Material	housing: stainless steel (1.4305 / 303); sensing face: POM; LED ring: PA	
Tightening torque [Nm]		2
Displays / operating elements		
Display	Switching status	1 x LED ring, yellow translucent cable entry signals output status
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR; 3 x 0.08 mm ²		
Connection		
<pre>graph LR; Cable[] --- BN; Cable --- BK; Cable --- BU; BN --- Lplus[L+]; BK --- OUT; BU --- Lminus[L-];</pre>		
BN :	brown	
BK:	black	
BU:	blue	
BN:	L+	
BK:	OUT DO (NO)	
BU:	L-	