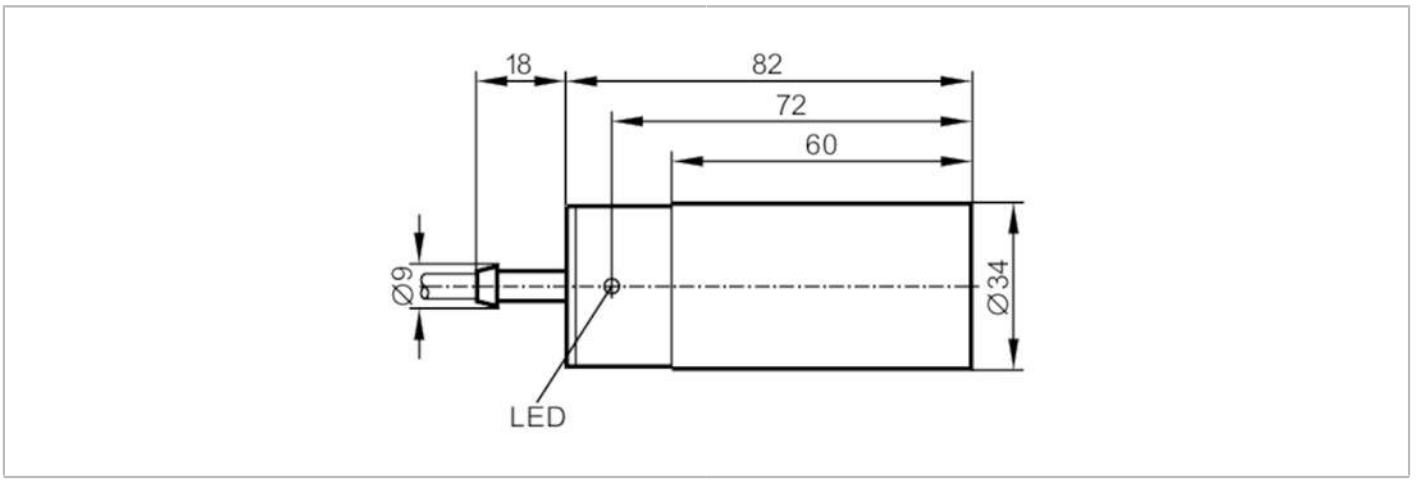
IB5163

Inductive sensor

IB-3027SFPKG RT



Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	27
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 82
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	3
Permanent current rating of switching output DC	[mA]	250
Short-time current rating of switching output	[mA]	400
Switching frequency DC	[Hz]	20
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	27
Real sensing range Sr	[mm]	27 ± 10 %
Operating distance	[mm]	0...21.87
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3

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Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-30...50	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1194	
Mechanical data			
Weight	[g]	257.5	
Housing		cylindrical	
Mounting		non-flush mountable	
Dimensions	[mm]	Ø 34 / L = 82	
Materials		PBT	
Displays / operating elements			
Display		switching status	1 x LED, red
Accessories			
Items supplied		Mounting clamps: 1	
Remarks			
Remarks		Reprogramming allows the output of the switch to be monitored in the monitor mode.	
		Note:	
		The switch holds no approval as a fail-safe switch.	
Pack quantity		1 pcs.	

Electrical connection

Cable: 2 m, PVC; 4 x 0.34 mm²

Connection



Core colours :

BK = black
BN = brown
BU = blue
WH = white