

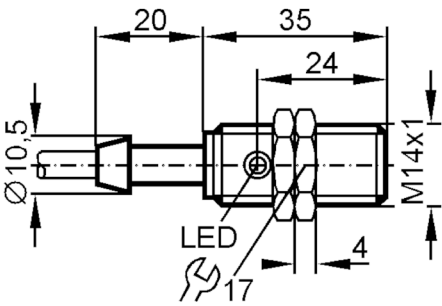
IP5003



Inductive sensor

IP-5003

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Product characteristics		
Electrical design		NPN
Output function		normally open
Sensing range	[mm]	2
Housing		Threaded type
Dimensions	[mm]	M14 x 1
Electrical data		
Operating voltage	[V]	18...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
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]	125; (150 (...50 °C))
Short-time current rating of switching output	[mA]	150
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)

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Overload protection		yes	
Monitoring range			
Sensing range		[mm]	2
Real sensing range Sr		[mm]	2 ± 10 %
Operating distance		[mm]	0...1.6
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis		[% of Sr]	3...15
Switch-point drift		[% of Sr]	-10...10
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Housing		Threaded type	
Mounting		flush mountable	
Dimensions		[mm]	M14 x 1
Thread designation		M14 x 1	
Material		brass nickel-plated; PBT	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm²

Connection



BN =	Core colors :
BU =	brown
BK =	blue
	black