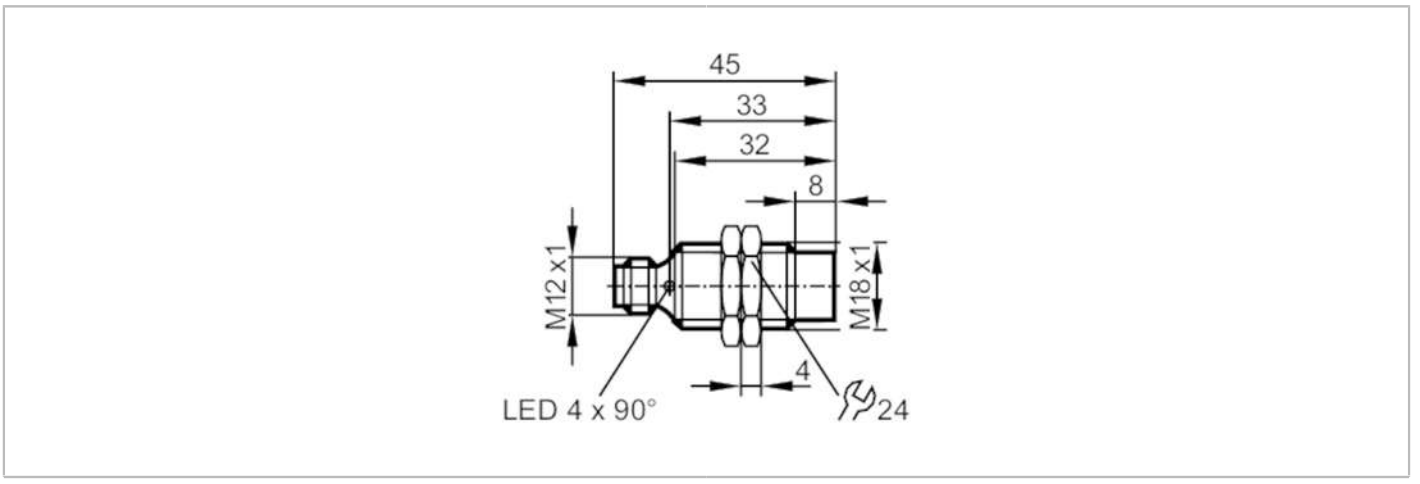
IG5846

Inductive sensor

IGB4010-CPKG/V4A/US-104-DPA



Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	10
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 45
Application		
Special feature		Gold-plated contacts
Application		Industrial applications / factory automation
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		complementary
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	300
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	10
Real sensing range Sr	[mm]	10 ± 10 %

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Operating distance	[mm]	0...8.1	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	3 V
		EN 55011 emission	class B
MTTF	[years]	1447	
Mechanical data			
Weight	[g]	41.6	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 45	
Thread designation		M18 x 1	
Materials		stainless steel (1.4571/316Ti); sensing face: PBT	
Displays / operating elements			
Display		switching status	4 x 90° LED, red
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			

Connector: 1 x M12; coding: A; Contacts: gold-plated



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Connection

