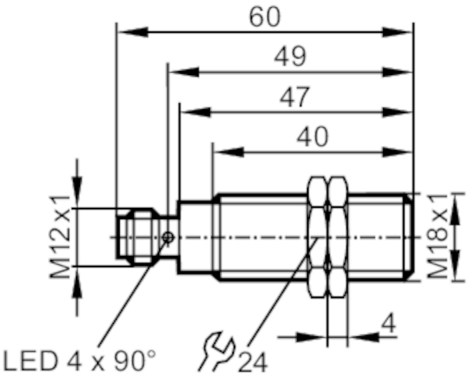
MGT201

Magnetic sensor

MGK3100-BPKG/M/V4A/US-104-DPS



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	100; (referred to magnet M 4.0)
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 60
Application		
Special feature		Gold-plated contacts
Application		pig detection
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	100; (referred to magnet M 4.0)
Response sensitivity	[mT]	0.3
Accuracy / deviations		
Hysteresis	[% of Sr]	1...10
Response times		
Pulse stretching	[ms]	1000

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Operating conditions			
Ambient temperature	[°C]	0...104	
Protection		IP 68; IP 69K	
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 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
MTTF	[years]	769	
Mechanical data			
Weight	[g]	47.3	
Housing		threaded type	
Dimensions	[mm]	M18 x 1 / L = 60	
Thread designation		M18 x 1	
Materials		housing: stainless steel (316L/1.4404); sensing face: PEEK; lock nuts: stainless steel	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Remarks		voltage supply to EN50178, SELV, PELV	
Pack quantity		1 pcs.	

Electrical connection - plug

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

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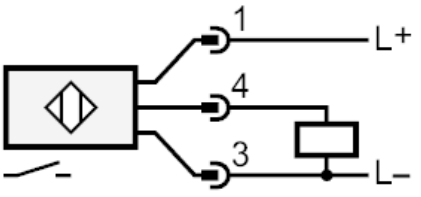
Connection