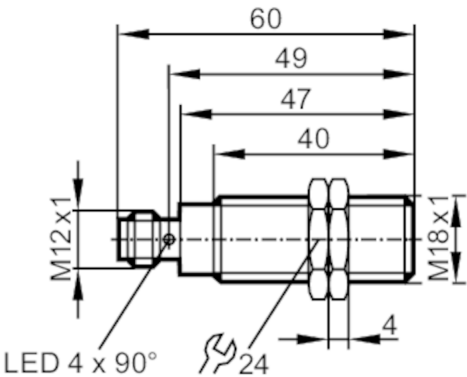


MGS205



Full-metal magnetic sensor

MGK3070-ANKG/AM/G/US



Product characteristics		
Electrical design	NPN	
Output function	normally open	
Sensing range	[mm]	70; (referred to magnet M 4.0)
Housing	Threaded type	
Dimensions	[mm]	M18 x 1 / L = 60
Application		
System	gold-plated contacts; Full-metal housing	
Pressure rating	100 bar	10 MPa
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
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]	200
Switching frequency DC	[Hz]	5000
Short-circuit protection	yes	
Overload protection	yes	
Monitoring range		
Sensing range	[mm]	70; (referred to magnet M 4.0)
Magnetic sensitivity	[mT]	0.9
Accuracy / deviations		
Hysteresis	[% of Sr]	1...10

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Operating conditions		
Ambient temperature	[°C]	-25...75
Protection		IP 65; IP 67
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 emission	class B
	DIN ISO 11452-2	100 V/m
Mechanical data		
Weight	[g]	48.9
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 60
Thread designation		M18 x 1
Material		housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PA; lock nuts: brass
Full-metal housing		yes
Displays / operating elements		
Display	Switching status	1 x LED, yellow
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

