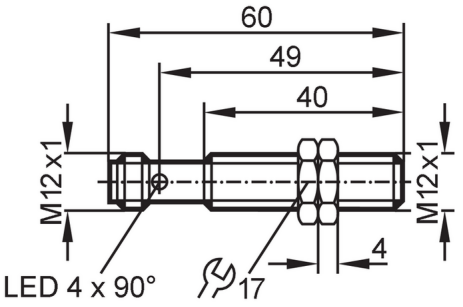
MFS216

Full-metal magnetic sensor

MFK3085-BPKG/AM/G/US



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	85; (referred to magnet M 4.0)
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Application		
Special feature		Gold-plated contacts; Full-metal housing
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]	85; (referred to magnet M 4.0)
Response sensitivity	[mT]	0.7
Travel speed	[m/s]	5
Accuracy / deviations		
Hysteresis	[% of Sr]	1...10
Response times		
Pulse stretching	[ms]	1000
Operating conditions		
Ambient temperature	[°C]	-25...75
Protection		IP 65; IP 67

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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 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
		DIN ISO 11452-2	100 V/m
Vibration resistance			(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance			30 g 6 shocks / 11 ms half-sine (x, y, z)
MTTF	[years]	2028	
Mechanical data			
Weight	[g]	28	
Housing		threaded type	
Dimensions	[mm]	M12 x 1 / L = 60	
Thread designation		M12 x 1	
Materials		housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); LED window: PA; lock nuts: brass	
Full-metal housing		yes	
Displays / operating elements			
Display		switching status	4 x 90° LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection

