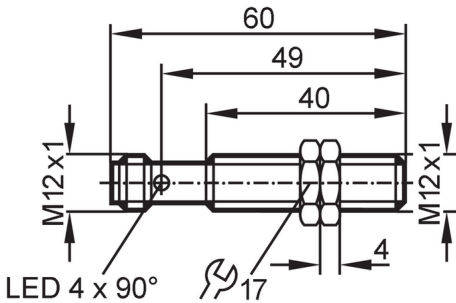


MFS216



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
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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

Monitoring range

Sensing range [mm]	85; (referred to magnet M 4.0)
Magnetic sensitivity [mT]	0.7
Travel speed [m/s]	5

Accuracy / deviations

Hysteresis [% of Sr]	1...10
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Reaction times

Pulse stretching [ms]	1000
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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, vibration duration 5 min., 30 min. per axis with 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
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	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		
