

MFS212



Full-metal magnetic sensor

MFK3060-BPKG/AM/G/US



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	60; (referred to magnet M 4.0)
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

System	gold-plated contacts
Pressure rating [bar]	100

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
Switching frequency DC [Hz]	5000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	60; (referred to magnet M 4.0)
Magnetic sensitivity [mT]	1.2

Accuracy / deviations

Hysteresis [% of Sr]	1...10
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Operating conditions		
Ambient temperature	[°C]	-40...75
Storage temperature	[°C]	-40...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	class B
	DIN ISO 11452-2	100 V/m
MTTF	[years]	1401
Mechanical data		
Weight	[g]	28.5
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Material		housing: stainless steel; sensing face: stainless steel; LED window: PA
Tightening torque for cable gland	[Nm]	11
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; Tightening torque: 11 Nm		
		

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Connection

