

MFS209



Full-metal magnetic sensor

MFK3060-ANKG/AM/G/US



Product characteristics

Electrical design	NPN
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

Special feature	Gold-plated contacts; Full-metal housing
Pressure rating [bar]	100
Pressure rating [MPa]	10

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

Detection zone

Sensing range [mm]	60; (referred to magnet M 4.0)
Response sensitivity [mT]	1.3

Accuracy / deviations

Hysteresis [% of Sr]	1...10
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Operating conditions

Ambient temperature [°C]	-25...75
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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 61000-4-5 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
MTTF	[years]	1400

Mechanical data

Weight	[g]	28.3
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
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

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



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Connection

