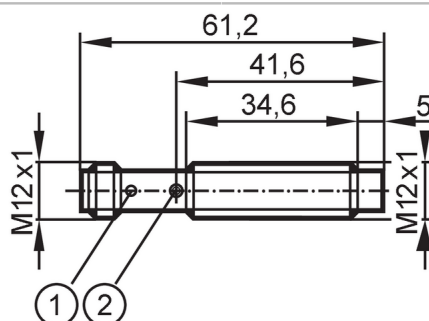


KF5002



Capacitive sensor

KFA3080NBPKG/NI/US



- 1 LED 4 x 90°
2 potentiometer



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	3...12
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 61

Application

Media	dry bulk material; liquids
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Electrical data

Operating voltage [V]	10...36 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 12
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]	100
Switching frequency DC [Hz]	50
Short-circuit proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	3...12
Sensing range adjustable	yes
Factory setting sensing range [mm]	8
Real sensing range Sr [mm]	8 ± 10 %

Accuracy / deviations

Correction factor	glass: 0.6 / water: 1 / ceramics: 0.5 / PVC: 0.4
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20

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Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 65
Increased immunity		yes

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	634

Mechanical data

Weight	[g]	39.2
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 61
Thread designation		M12 x 1
Material		Housing, Nut: stainless steel (1.4404 / 316L); sensing face: PEEK; sealing: TPV; potentiometer: PBT

Displays / operating elements

Display	Switching status	1 x 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: 3



Connection

