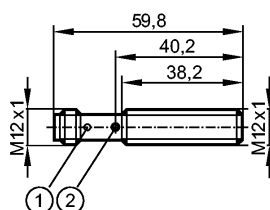


KF5001

KFA3040BBPKG/NI/US

Capacitive sensors


- 1: LED 4 x 90°
2: potentiometer

Made in Germany


Product characteristics

Capacitive sensor
Metal thread M12 x 1
Connector
Increased immunity to conducted radio frequency interference
Sensing range 4 mm; adjustable 1...6 mm; [f] flush mountable

Application

Application	For position detection of dry bulk materials and liquids
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Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 12
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	50

Range

Sensing range [mm]	4, adjustable 1...6 mm
Real sensing range (Sr) [mm]	4 ± 10 %

Accuracy / deviations

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

Environment

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

Tests / approvals

EMC	IEC 60947-5-2:	2007
MTTF [Years]		636

Mechanical data

Mounting	flush mountable
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KF5001

KFA3040BBPKG/NI/US

Capacitive sensors

Housing materials	stainless steel 316L / 1.4404; PEEK (polyether ether ketone)
Weight [kg]	0.048

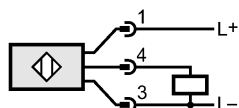
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	M12 connector
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Remarks	cULus - Class 2 source required
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Pack quantity	[piece]	1
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