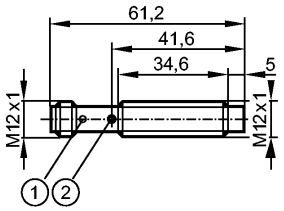
efectorISO

KF5002

KFA3080NBPKG/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 8 mm; adjustable 3...12 mm; [nf] non-flush mountable		
Application		
Application		For position detection of dry bulk materials and liquids
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...36 DC; "supply class 2" to cULus.
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]	8, adjustable 3...12 mm
Real sensing range (Sr)	[mm]	8 ± 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]	634
Mechanical data		
Mounting		non-flush mountable

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Capacitive sensors

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

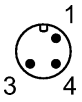
Displays / operating elements

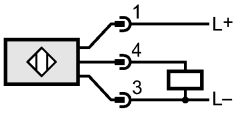
Output status indication	LED	yellow

Electrical connection

Connection	M12 connector

Wiring





Accessories

Accessories (included)	2 lock nuts

Remarks

Pack quantity	[piece]	1