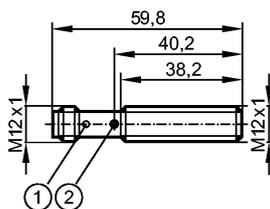


KF5001

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
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

KF5001

KFA3040BBPKG/NI/US

Capacitive sensors

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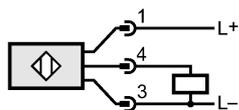
Displays / operating elements

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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