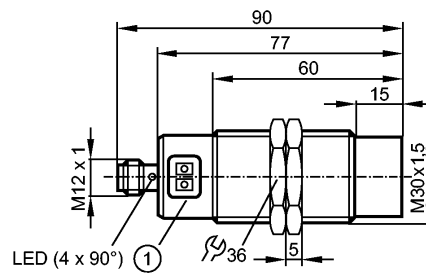


KI5087

KIA3150NFPKG/2T/US

Capacitive sensors



1: Programming buttons

Made in Germany



Product characteristics

Capacitive sensor
Metal thread M30 x 1.5
Connector
Teach function
Electronic lock
Sensing range 15 mm; [nf] non-flush mountable

Application

Application	For dry bulk material and liquids, detection through the non-metallic tank wall or on bypass tubes.
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Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC (60 °C) / 10...30 DC (80 °C)
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	10

Range

Sensing range [mm]	15
Real sensing range (Sr) [mm]	15 ± 10 %

Accuracy / deviations

Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20

Environment

Ambient temperature [°C]	-25...80
Protection	IP 65 / IP 67

Tests / approvals

EMC	IEC 60947-5-2: 1997 + A1: 1999 + A2: 2003
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KI5087

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Capacitive sensors

MTTF	[Years]	719
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Mechanical data

Mounting	non-flush mountable	
Housing materials	housing: stainless steel 316L / 1.4404; buttons: TPE-U; cover: PBT; connector: PEI	
Weight	[kg]	0.153

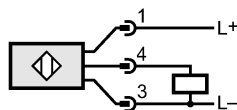
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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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

Pack quantity	[piece]	1
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