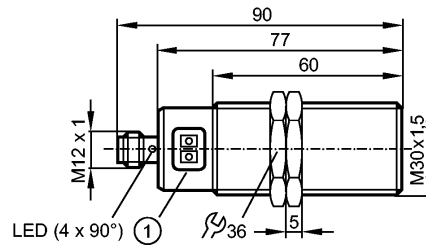


KI5084

KIA3080BFAKG/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
Automatic detection PNP/NPN *)
Sensing range 8 mm; [f] flush mountable

Application

Application	for dry bulk material (flush mountable in vessel wall)
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Electrical data

Electrical design	DC PNP/NPN
Automatic load detection PNP/NPN	when using a resistive load < 20 kΩ
Operating voltage [V]	10...36 DC (60° C) / 10...30 DC (80° C)
Current consumption [mA]	< 18
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]	8
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...80
Protection	IP 65 / IP 67

Tests / approvals

KI5084

KIA3080BFAKG/2T/US

Capacitive sensors

EMC	IEC 60947-5-2:	1997 + A1: 1999 + A2: 2003
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MTTF	[Years]	622
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Mechanical data

Mounting	flush mountable
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Housing materials	housing: stainless steel 316L / 1.4404; buttons: TPE-U; cover: PBT; connector: PEI
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Weight	[kg]	0.163
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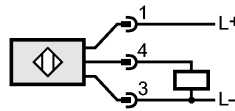
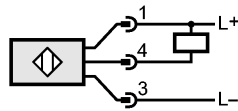
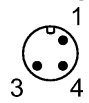
Displays / operating elements

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

Remarks	*) load resistance < 20 kΩ
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Pack quantity	[piece]	1
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