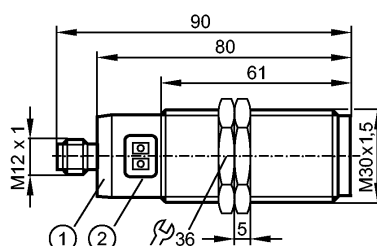


KI5082

KI-3200NFAKGP2T/US

Capacitive sensors


- 1: LED ring
2: Programming buttons



Made in Germany

Product characteristics

Capacitive sensor
Plastic thread M30 x 1.5
Connector
Teach function
Electronic lock
Automatic detection PNP/NPN *)
Sensing range 20 mm; [nf] non-flush mountable

Application

Application	For dry bulk material and liquids. Optimised for media with a dielectric constant < 20 (e.g. oils, plastic granulates).
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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
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	10

Range

Sensing range [mm]	20
Real sensing range (Sr) [mm]	20 ± 10 %

Accuracy / deviations

Correction factors	water = 1 / glass approx. 0.3 / ceramics approx. 0.2 / PVC approx. 0.1
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20

Environment

Ambient temperature [°C]	-25...80, temperature of the sensing face -25...110 °C
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KI5082

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Capacitive sensors

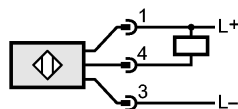
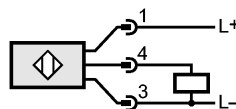
Target medium temperature	[°C]	110
Protection		IP 65 / IP 67

Tests / approvals		
EMC	IEC 60947-5-2:	1997 + A1: 1999 + A2: 2003
MTTF	[Years]	569

Mechanical data		
Mounting		non-flush mountable
Housing materials		housing: PBT; connector: PC; buttons: TPE-U
Weight	[kg]	0.118

Displays / operating elements		
Output status indication	LED	yellow (LED ring and connector light translucently)

Electrical connection		
Connection		M12 connector

Wiring


Accessories		
Accessories (included)		2 lock nuts

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