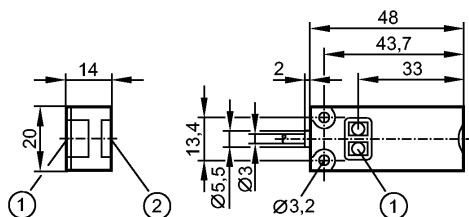


KQ6001

KQ-3120NFAKG/2T

Capacitive sensors



1: Programming buttons
2: sensing face

Made in Germany



Product characteristics

Capacitive sensor
Rectangular, plastics
Cable
Automatic detection PNP/NPN *)
Sensing range 12 mm; [nf] non-flush mountable

Application

Application	Position sensor and detection of dry bulk materials and liquids through non-metallic tank walls or on bypass pipes
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Electrical data

Electrical design	1x open collector with automatic load detection (DC PNP or DC NPN)
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 17
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]	12
Real sensing range (Sr) [mm]	12 ± 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:	2007
MTTF [Years]		623

Mechanical data

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Capacitive sensors

Mounting	non-flush mountable
Housing materials	housing: PBT (glass fiber reinforced); buttons: TPE-U; cover: PC (glass fiber reinforced)
Weight [kg]	0.092

Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	PVC cable / 2 m; 3 x 0.14 mm ²
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Wiring

Core colours

BK black
BN brown
BU blue



Remarks

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