

KA5003

Capacitive sensor

KA-3010-BPKG



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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	10; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	50
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %
Operating distance [mm]	0...8.1

Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-15...15

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Operating conditions

Ambient temperature	[°C]	-15...70
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
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Mechanical data

Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 20
Material		PBT

Displays / operating elements

Display	Switching status	1 x LED, yellow
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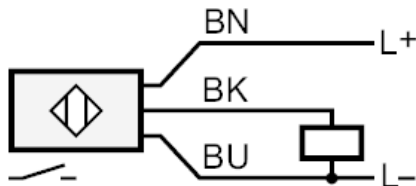
Remarks

Pack quantity		1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



Core colors :
BN = brown
BU = blue
BK = black