

## Capacitive sensor



Order Code : BCS003N  
BCS M12VVG1-POM40C-EP02

### Keyfeatures

Connection	Cable, PUR
Trade name / Technology	Standard
Working range	1...4 mm
Size	M12
Mechanical installation condition	Flush (shielded)
Switching output / function	PNP/Normally closed (NC)

### General attributes

Mechanical installation condition	Flush (shielded)
Series	M12
Degree of protection as per IEC 60529	IP65
Switching freq. f max.	100 Hz
Temp. drift max. (% of Sr)	20
Repeat accur. R max. (% of Sr)	2 %
Short-circuit protected	Yes
Protected against reverse connection	Yes
Utilisation category	DC 13

<b>Basic standard</b>	IEC 60947-5-2
<b>Scope of delivery</b>	2 nuts

#### Electrical attributes

<b>Connection type</b>	Cable
<b>Electrical version</b>	DC, direct current
<b>Operating voltage</b>	12...35 V DC
<b>Ripple max. (% of Ue)</b>	10
<b>Switching output</b>	PNP
<b>Switching function</b>	Normally closed (NC)
<b>Effective operating current I<sub>e</sub></b>	200 mA
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>No-load current I<sub>o</sub> damped</b>	10 mA
<b>Hysteresis H max. (in % of S<sub>r</sub>)</b>	15 %
<b>Voltage drop static max.</b>	0,8 V

#### Mechanical attributes

<b>Rated operating distance S<sub>n</sub></b>	4 mm
<b>Number of conductors</b>	3
<b>Conductor cross-section</b>	0.14 mm <sup>2</sup>
<b>Housing material</b>	PVC
<b>Sensing surface material</b>	PVC
<b>Cover material</b>	PVC
<b>Cable jacket material</b>	PUR
<b>Ambient temperature T<sub>a</sub> min.</b>	-30 °C
<b>Ambient temperature T<sub>a</sub> max.</b>	60 °C
<b>Working range S<sub>a</sub> max.</b>	4 mm
<b>Working range S<sub>a</sub> min.</b>	1 mm
<b>Diameter d1</b>	M12x1.0

<b>Mounting length</b>	40 mm
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<b>Tightening torque max.</b>	0.5 Nm
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