



**Part no.: 50136580**  
**LCS-2M12B-N06NNC-K020V**  
**Capacitive sensor**



Figure can vary

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## Technical data

<b>Basic data</b>	
Series	LCS-2
Switching distance $S_n$	1 ... 6 mm
Assured switching distance	4.9 mm

<b>Electrical data</b>	
Protective circuit	Polarity reversal protection Short circuit protected

<b>Performance data</b>	
Supply voltage	10 ... 30 V, DC
Residual ripple	0 ... 10 %
Open-circuit current	10 mA
Rated operating current	200 mA

<b>Outputs</b>	
Number of digital switching outputs	1 Piece(s)

<b>Switching outputs</b>	
Type	Digital switching output
Voltage type	DC

<b>Switching output 1</b>	
Assignment	Connection 1, conductor 2
Switching element	Transistor, NPN
Switching principle	NC (normally closed)

<b>Timing</b>	
Switching frequency	100 Hz

<b>Connection</b>	
Number of connections	1 Piece(s)

<b>Connection 1</b>	
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PVC
Number of conductors	3 -wire
Wire cross section	0.35 mm <sup>2</sup>

<b>Mechanical data</b>	
Design	Cylindrical
Thread size	M12 x 1 mm
Dimension (Ø x L)	12 mm x 55 mm
Type of installation	Non-embedded
Housing material	Metal
Sensing face material	Plastic, Polybutylene (PBT)
Cover material	Plastic, Polybutylene (PBT)

<b>Operation and display</b>	
Type of display	LED
Number of LEDs	1 Piece(s)
Switching distance, adjustable	Yes

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**Environmental data**

Ambient temperature, operation	-25 ... 70 °C
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**Certifications**

Degree of protection	IP 67
Protection class	III
Standards applied	IEC 60947-5-2

**Correction factors**

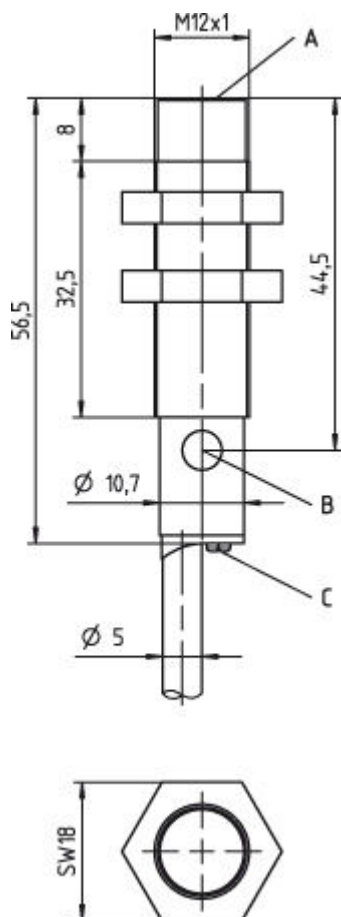
Acetone	0.75
Acrylic resin	0.1 ... 0.25
Alcohol	0.85
Ammonia	0.7 ... 0.85
Aniline	0.4
Gasoline	0.1
Celluloid	0.15
Liquid chlorine	0.1
Ebonite	0.15
Epoxy resin	0.15 ... 0.35
Crude oil	0.05
Ethanol	0.85
Ethylene glycol	0.93
Freon R22 and 502 (liquid)	0.35
Grain	0.15 ... 0.3
Glass	0.2 ... 0.55
Glycerin	0.98
Rubber	0.15 ... 0.9
Wood, wet	0.6 ... 0.85
Wood, dry	0.1 ... 0.4
Marble	0.5
Flour	0.05
Melamine resin	0.25 ... 0.55
Milk powder	0.2
Nylon	0.2 ... 0.3
Oil-containing paper	0.25
Paper	0.1
Polyamide	0.3
Polyester resin	0.15 ... 0.5
Pressboard	0.1 ... 0.3
PTFE	0.1
Quartz glass	0.2
Salt	0.35
Sand	0.15 ... 0.3
Water	1
Cement dust	0.25
Sugar	0.15

**Classification**

eCl@ss 8.0	27270102
eCl@ss 9.0	27270102

## Dimensioned drawings

All dimensions in millimeters



- A Active surface
- B Yellow LED
- C Potentiometer

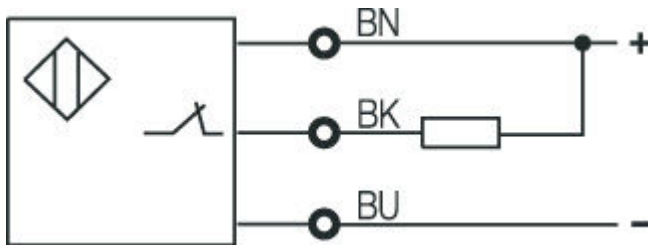
## Electrical connection

Connection 1	
Type of connection	Cable
Function	
Cable length	2,000 mm
Sheathing material	PVC
Cable color	
Number of conductors	3 -wire
Wire cross section	0.35 mm <sup>2</sup>

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Conductor color	Conductor assignment
Brown	10 - 30 V DC
Black	OUT
Blue	GND

## Circuit diagrams




## Operation and display

### LEDs


LED	Display	Meaning
1	Yellow, continuous light	Switching output/switching state

## Accessories



### Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50113549	BT D12M.5	Mounting bracket	Diameter, inner: 12 mm Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Stainless steel

### Mounting technology - Other

	Part no.	Designation	Article	Description
	50132729	AC D18M-CS	Clamp	Contains: 2x M24 mounting nut Diameter, inner: 18 mm Design of mounting device: Mounting clamp Mounting bracket, at system: Screw type, Through-hole mounting Mounting bracket, at device: Insertable, Clampable with limit stop Type of mounting device: Clampable, With limit stop Material: Metal

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	Part no.	Designation	Article	Description
	50111499	MC 012K	Clamp	Diameter, inner: 12 mm Design of mounting device: Mounting clamp Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Rigid Material: Plastic
	50111500	MC 012K-LS	Clamp	Diameter, inner: 12 mm Design of mounting device: Mounting clamp Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Clampable with limit stop Type of mounting device: Rigid Material: Plastic

## Notes

Observe intended use!
<ul style="list-style-type: none"> <li>• This product is not a safety sensor and is not intended as personnel protection.</li> <li>• The product may only be put into operation by competent persons.</li> <li>• Only use the product in accordance with its intended use.</li> </ul>