

the sensor people





Part no.: 50136522 LCS-2M12B-F03PNC-K020V Capacitive sensor



Figure can vary

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
- · Operation and display
- Accessories
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Technical data

Series	Basic data				
Assured switching distance Electrical data Protective circuit Profective circuit Profective circuit Performance data Supply voltage 10 30 V, DC Residual ripple 0 10 % Open-circuit current 10 mA Rated operating current 200 mA Outputs Number of digital switching outputs 1 plece(s) Switching output 1 Assignment Connection 1 Transistor, PNP Switching principle NC (normally closed) Timing Switching frequency 100 Hz Connection Number of connections 1 Plece(s) Connection Number of connection Sheathing material PVC Number of conductors 3wire Wire cross section 0.35 mm² Mechanical data Design Cylindrical Thread size Mit 2 .1 mm Dimension (Ø x L) Type of installation Embedded Housing material Plastic, Polybutylene (PBT)	Series	LCS-2			
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Type of connection Cable Cable length 2,000 mm Sheathing material PVC Number of conductors 3 -wire Wire cross section 0.35 mm² Mechanical data Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Housing material Metal Sensing face material Plastic, Polybutylene (PBT)		1 Piece(s)	1 Piece(s)		
Cable length 2,000 mm Sheathing material PVC Number of conductors 3 -wire Wire cross section 0.35 mm² Mechanical data Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Connection 1				
Sheathing material PVC Number of conductors 3 -wire Wire cross section 0.35 mm² Mechanical data Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Type of connection	Cable			
Number of conductors 3 -wire Wire cross section 0.35 mm² Mechanical data Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Cable length	2,000 mm			
Wire cross section 0.35 mm² Mechanical data Cylindrical Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Sheathing material	PVC			
Mechanical dataDesignCylindricalThread sizeM12 x 1 mmDimension (Ø x L)12 mm x 55 mmType of installationEmbeddedHousing materialMetalSensing face materialPlastic, Polybutylene (PBT)	Number of conductors	3 -wire			
Design Cylindrical Thread size M12 x 1 mm Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Wire cross section	0.35 mm²			
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Dimension (Ø x L) 12 mm x 55 mm Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Design	Cylindrical			
Type of installation Embedded Housing material Metal Sensing face material Plastic, Polybutylene (PBT)	Thread size	M12 x 1 mm			
Housing material Metal Sensing face material Plastic, Polybutylene (PBT)					
Sensing face material Plastic, Polybutylene (PBT)	Type of installation				
Cover material Plastic, Polybutylene (PBT)					
	Cover material	Plastic, Polybutylene (PBT)			
Operation and display	Operation and display				
Type of display LED	Type of display	LED			
Number of LEDs 1 Piece(s)					
Switching distance, adjustable Yes	Switching distance, adjustable	Yes	Yes		



Environmental data		
Ambient temperature, operation	-25 70 °C	
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	
iquid 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	
Nood, 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 0.3	
Quartz glass	0.1	
Salt	0.35	
Sand	0.15 0.3	
Vater Constitution	1	
Cement dust	0.25	
Sugar	0.15	
Classification	07070400	
eCl@ss 8.0	27270102	

27270102

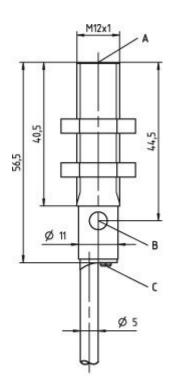
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ETIM 5.0 EC002715

Dimensioned drawings

All dimensions in millimeters





A Active surface B Yellow LED C Potentiometer

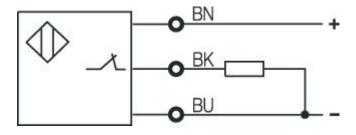
Electrical connection

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 ²



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
O	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
OF THE	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



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!

- This product is not a safety sensor and is not intended as personnel protection.
- · The product may only be put into operation by competent persons.
- · Only use the product in accordance with its intended use.