

the sensor people





Part no.: 50136587 LCS-2M12P-N06NNO-K020V Capacitive sensor



Figure can vary

Contents

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Technical data

Basic data	
Series	LCS-2
Switching distance S _n	1 6 mm
Assured switching distance	4.9 mm
Electrical data	
Protective circuit	Short circuit protected
	Polarity reversal protection
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 ewitching outputs	1 Dioce/s)
Number of digital switching outputs	1 Piece(s)
Switching outputs	Digital switching output
Type Voltage type	Digital switching output DC
Switching output 1	
Assignment	Connection 1, conductor 2
Switching element	Transistor, NPN
Switching principle	NO (normally open)
	(
Timing	
Switching frequency	100 Hz
Connection	
Number of connections	1 Piece(s)
Connection 1	
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	Non-embedded
Housing material	Plastic, Polybutylene (PBT)
Sensing face material	Plastic, Polybutylene (PBT)
Cover material	Plastic, Polybutylene (PBT)
Operation and display	
Type of display	
	LED
Number of LEDs Switching distance, adjustable	LED 1 Piece(s) Yes



Environmental data			
Ambient temperature, operation	-25 70 °C		
vanibonic temperature, operation	2070		
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Certifications	ID 67		
Degree of protection	IP 67		
Protection class			
Standards applied	IEC 60947-5-2		
Correction factors			
Acetone	0.75		
Acrylic resin	0.1 0.25		
Alcohol	0.85		
Ammonia	0.65		
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	0.1		
Salt	0.2		
Sand	0.15 0.3		
Water	1		
Cement dust	0.25		
Sugar	0.15		
Classification			
eCl@ss 8.0	27270102		
aCI@ss 9.0	27270102		

27270102

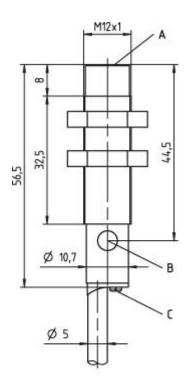
eCl@ss 9.0



ETIM 5.0 EC002715

Dimensioned drawings

All dimensions in millimeters





A B C Active surface

Yellow LED Potentiometer

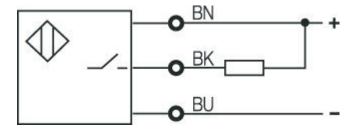
Electrical connection

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
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
SAME.	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.