

the sensor people





Part no.: 50135764 LCS-1M12T-N08PNC-K020T Capacitive sensor





Figure can vary

Contents

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





Technical data

Basic data				
Series Series	LCS-1			
Switching distance S _n	1 8 mm			
Assured switching distance	8 mm			
Assured switching distance	0 111111			
Observation of the manuscript of				
Characteristic parameters MTTF	450			
MITE	450 years			
Planting of the				
Electrical data Protective circuit	Delarity reversel protection			
Protective circuit	Polarity reversal protection Short circuit protected			
Performance data				
Supply voltage	12 35 V, DC			
Residual ripple	0 10 %, From U _B			
Open-circuit current	15 mA			
Temperature drift, max. (in % of S _r)	15 %			
Repeatability, max. (in % of S _r)	2 %			
Rated operating current	200 mA			
Outputs				
Number of digital switching outputs	1 Piece(s)			
Switching outputs				
Туре	Digital switching output			
Voltage type	DC			
Switching output 1				
Switching element	Transistor, PNP			
Switching principle	NC (normally closed)			
Timing				
Switching frequency	100 Hz			
Connection				
Number of connections	1 Piece(s)			
Connection 1				
Type of connection	Cable			
Function	Signal OUT			
Cable langth	Voltage supply			
Cable length	2,000 mm			
Sheathing material Number of conductors	PTFE 3 -wire			
Number of conductors Wire cross section	0.2 mm ²			
vvire cross section	U.Z IIIIII ⁻			
Markaniantaka				
Mechanical data	Culindrical			
Design Thread size	Cylindrical M12 x 1 mm			
Thread size	M12 x 1 mm			
Dimension (Ø x L)	12 mm x 53 mm Non-embedded			
Type of installation				
Housing material Sensing face material	Plastic, Teflon (PTFE) Plastic, Teflon (PTFE)			
Sensing face material Flastic, fellott (FTL)				



Cover material	Plastic, Teflon (PTFE)		
Net weight	77 g	77 g	
Operation and display			
Type of display	LED		
Number of LEDs	1 Piece(s)		
Switching distance, adjustable	Yes		
Environmental data			
Ambient temperature, operation	-30 70 °C		
Certifications			
Degree of protection	IP 65		
Protection class	III		
Certifications	c UL US		
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		

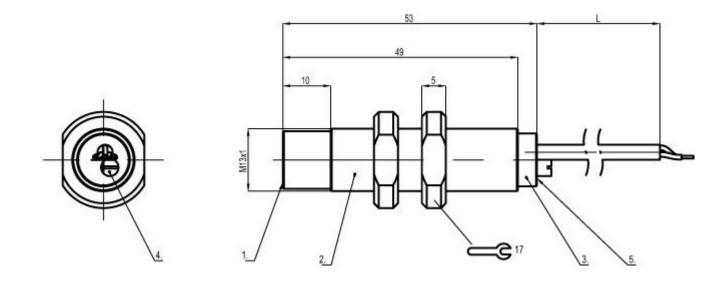


Quartz glass	0.2	
Salt	0.35	
Sand	0.15 0.3	
Water	1	
Cement dust	0.25	
Sugar	0.15	

Classification		
eCl@ss 8.0	27270102	
eCl@ss 9.0	27270102	
ETIM 5.0	EC002715	

Dimensioned drawings

All dimensions in millimeters



- Active surface
- 2 Housing
- 3 Cover
- 4 Potentiometer
- 5 Red LED, function indicator

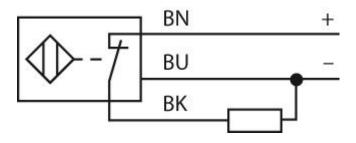
Electrical connection

Connection 1	
Type of connection	Cable
Function	Signal OUT Voltage supply
Cable length	2,000 mm
Sheathing material	PTFE
Cable color	
Number of conductors	3 -wire
Wire cross section	0.2 mm ²



Conductor color	Conductor assignment	
Brown	+1235 V DC	
Black		
Blue		

Circuit diagrams



Operation and display

LEDs

LED	Display	Meaning
1	Red, 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
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.