

the sensor people





Part no.: 50135785 LCS-1M18T-N15NNO-K020T Capacitive sensor





Figure can vary

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Technical data

Basic data				
Series	LCS-1			
Switching distance S _n	2 15 mm			
Assured switching distance	15 mm			
Assured switching distance	13 11111			
Obeye sterietie nevernetore				
Characteristic parameters MTTF	200 years			
WITTI	300 years			
Electrical data				
Protective circuit	Short circuit protected			
	Polarity reversal protection			
Performance data				
Supply voltage	10 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	300 mA			
Outputs				
Number of digital switching outputs	1 Piece(s)			
Switching outputs				
Туре	Digital switching output			
Voltage type	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			
Function	Voltage supply Signal OUT			
Cable length	2,000 mm			
Sheathing material	PTFE			
Number of conductors	3 -wire			
Wire cross section	0.2 mm ²			
Mechanical data				
Design	Cylindrical			
Thread size	M18 x 1 mm			
Dimension (Ø x L)	18 mm x 73 mm			
Type of installation	Non-embedded			
Housing material	Plastic, Teflon (PTFE)			



Sensing face material	Plastic, Teflon (PTFE)
Cover material	Plastic, Teflon (PTFE)
Net weight	110 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 67
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

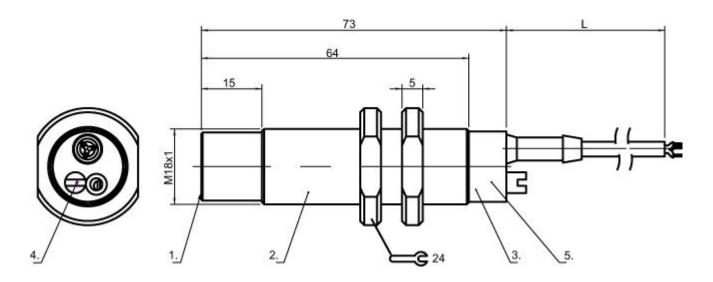


PTFE	0.1
Quartz glass	0.2
Salt	0.35
Sand	0.15 0.3
Water	1
Cement dust	0.25
Sugar	0.15

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

Dimensioned drawings

All dimensions in millimeters



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

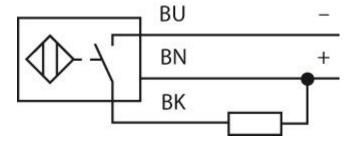
Electrical connection

Connection 1	
Type of connection	Cable
Function	Voltage supply Signal OUT
Cable length	2,000 mm
Sheathing material	PTFE
Cable color	
Number of conductors	3 -wire
Wire cross section	0.2 mm²



Conductor color	Conductor assignment
Brown	+1035 V DC
Black	OUT
Blue	GND

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
50113548	BT D18M.5	Mounting bracket	Diameter, inner: 18 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 - Rod mounts

	Part no.	Designation	Article	Description
Ofi	50117490	BTU D18M-D12	Mounting system	Design of mounting device: Mounting system Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal



Mounting technology - Other

	Part no.	Designation	Article	Description
OF PARTY	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
	50111501	MC 018K	Clamp	Diameter, inner: 18 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
0	50111502	MC 018K-LS	Clamp	Diameter, inner: 18 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.