

the sensor people





Part no.: 50136545 LCS-2M18P-F08PNO-K020V Capacitive sensor



Figure can vary

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Technical data

Basic data			
Series	LCS-2	LCS-2	
Switching distance S _n	2 8 mm		
Assured switching distance	6.5 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	300 mA	300 mA	
Outputs	4 Piece(e)		
Number of digital switching outputs	1 Piece(s)		
Switching outputs	Digital quitables a subsut		
Type Voltage type	Digital switching output		
Voltage type	DC		
Switching output 1	Connection 1 conductor 2		
Assignment Switching element	Connection 1, conductor 2 Transistor, PNP		
Switching element Switching principle	NO (normally open)		
Owntoning principle	140 (normally open)		
Timaina			
Timing Switching frequency	100 Hz		
Cantoning inequality	100 112		
Connection			
Number of connections	1 Piece(s)		
Connection 1	111000(0)		
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	M18 x 1 mm		
Dimension (Ø x L)	18 mm x 70 mm		
Type of installation	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	1 Piece(s)		
Switching distance, adjustable	Yes		



Ambient temperature, operation Certifications Degree of protection	-25 70 °C	
Degree of protection		
Degree of protection		
	IP 67	
Protection class	III	
Standards applied	IEC 60947-5-2	
Jan. 30 app. 30		
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	

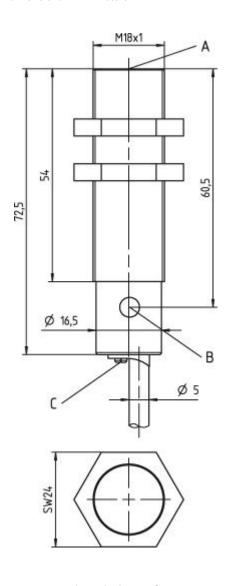
Classification	
eCl@ss 8.0	27270102
eCl@ss 9.0	27270102



ETIM 5.0 EC002715

Dimensioned drawings

All dimensions in millimeters



A Active surface B Yellow LED C Potentiometer

Electrical connection

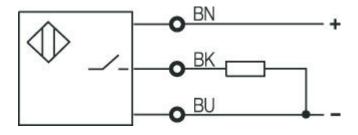
Connection 1		
Type of connection	Cable	
Function		
Cable length	2,000 mm	
Sheathing material	PVC	
Cable color		



Connection 1	
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	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
Offi	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
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
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.