

the sensor people





Part no.: 50136575 LCS-2M12B-N06NNO-M12 Capacitive sensor



Figure can vary

Contents

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





Technical data

Basic data	
Series	LCS-2
Switching distance S _n	1 6 mm
Assured switching distance	4.9 mm
Electrical data	
Protective circuit	Polarity reversal protection Short circuit protected
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 Piece(s)
Switching outputs	
Туре	Digital switching output
Voltage type	DC
Switching output 1	
Assignment	Connection 1, pin 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	Connector
Thread size	M12
Type	Matel
Material No. of pine	Metal
No. of pins	4 -pin
Encoding	A-coded
Mechanical data	Odiodical
Design	Cylindrical
Thread size	M12 x 1 mm
Dimension (Ø x L)	12 mm x 68 mm
Type of installation	Non-embedded
Housing material	Metal Plastia Polyhytylopa (PPT)
Sensing face material	Plastic, Polybutylene (PBT)
Cover material	Plastic, Polybutylene (PBT)
Operation and display	LED
Type of display Number of LEDs	LED 1 Pioco(c)
INUITING! OF LEDS	1 Piece(s)



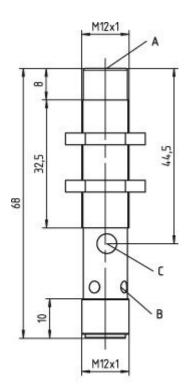
Part	Switching distance, adjustable	Yes	
Ambient temperature, operation -25 70 °C Certifications P67 Protection class III Standards applied IEC 60947-6-2 Correction factors Acetone 0.75 Acetone 0.85 Aleconol 0.85 Ammonia 0.7 0.85 Anilline 0.4 Gasoline 0.1 Celluloid 0.15 Liquid chlorine 0.1 Ebonite 0.15 Epoxy resin 0.15 0.35 Crude oil 0.05 Elhanol 0.85 Elhylen glycol 0.93 Freen R22 and 502 (liquid) 0.35 Grain 0.15 0.3 Glycerin 0.98 Rubber 0.15 0.9 Wood, dry 0.1 0.0 Wood wet 0.85 0.95 Wood, dry 0.1 0.9 Wood wet 0.25 0.95 Milk powder 0.2 0.3 Paper 0.1	Envisormental data		_
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Protection class	Certifications		
Standards applied IEC 60947-5-2	Degree of protection	IP 67	
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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	Melamine resin	0.25 0.55	
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	Milk powder	0.2	
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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	Oil-containing paper	0.25	
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Water 1 Cement dust 0.25			
	Cement dust	0.25	
Ougui U.10	Sugar	0.15	

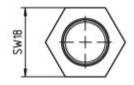


Classification	
eCl@ss 8.0	27270102
eCl@ss 9.0	27270102
ETIM 5.0	EC002715

Dimensioned drawings

All dimensions in millimeters





A B C Active surface Yellow LED Potentiometer

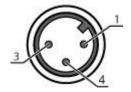
Electrical connection

Connection 1		
Type of connection	Connector	
Function		
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	4 -pin	

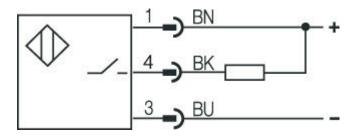


Connection 1	
Encoding	A-coded

Pin	Pin assignment	Conductor color
1	+1030 V DC	Brown
2	n.c.	-
3	GND	Blue
4	OUT	Black



Circuit diagrams



Operation and display

LEDs

LED	Display	Meaning
1	Yellow, continuous light	Switching output/switching state

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50112960	K-D M12A-4P-10m- FAB	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: FAB
50104570	K-D M12A-4P-2m- FAB	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: FAB



Part no.	Designation	Article	Description
50104572	K-D M12A-4P-5m- FAB	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: FAB
50112961	K-D M12W-4P-10m- FAB	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: FAB
50104571	K-D M12W-4P-2m- FAB	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: FAB
50104573	K-D M12W-4P-5m- FAB	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: FAB
50130654	KD U-M12-4A- P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130672	KD U-M12-4A- P1-020-DP	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130657	KD U-M12-4A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50130675	KD U-M12-4A- P1-050-DP	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50130658	KD U-M12-4A- P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
50130676	KD U-M12-4A- P1-100-DP	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
W	50130648	KD U-M12-4A- V1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
W	50130652	KD U-M12-4A- V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4-pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
W	50130653	KD U-M12-4A- V1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4-pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
W	50132431	KD U-M12-4A- V1-200	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC
W	50132430	KD U-M12-4A- V1-300	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 30,000 mm Sheathing material: PVC
W	50130692	KD U-M12-4W- P1-020	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
W	50130718	KD U-M12-4W- P1-020-DP	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
W	50130694	KD U-M12-4W- P1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
W	50130720	KD U-M12-4W- P1-050-DP	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
W	50130695	KD U-M12-4W- P1-100	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
W	50130721	KD U-M12-4W- P1-100-DP	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: Yes, 1 Piece(s) Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
W	50130688	KD U-M12-4W- V1-020	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
W	50130690	KD U-M12-4W- V1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
W	50130691	KD U-M12-4W- V1-100	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
W	50132641	KD U-M12-4W- V1-200	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
Q	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
	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



Part no.	Designation	Article	Description
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.