

TECHNICAL SPECIFICATION

Capacitive sensors – series CM xx

Description:

Capacitive sensors are used in machine systems and equipment for no-contact motion surveillance. They consist of two coaxial electrodes, a condenser and RC generator. This type of sensors reacts to both metal and non-metal objects, as the gearing distance for non-metal objects depends on their dielectric constants. They allow gearing distance adjustment for non-magnetic conductive materials. They are developed on the base of PNP and NPN transition. They have small dimensions and feature a metal cylindrical shell resistant to vibrations and a plastic lid which is oil and water resistant.

Technical data:

• Insulating resistance: $\geq 50 \text{ M} \Omega$

• Gearing distance: from 2 mm to 15 mm

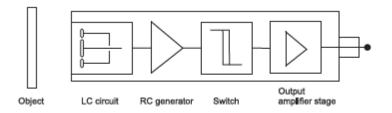
• Precision of repetition: 0.01

Ambient temperature: -25°C to +70°C

Gearing speed: 5mm/s

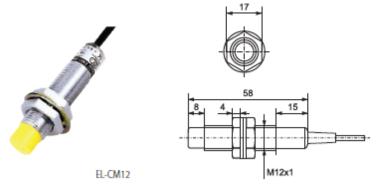
Rated voltage: 6~36VDC; 90~230VAC

• IP code: IP 54

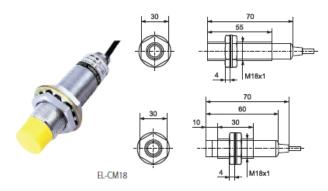




Variant and dimensions:



Туре	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load
CM12-3004NA	0~4	15~30VDC	NPN	NO	200mA
CM12-3004NB	0~4	15~30VDC	NPN	NC	200mA
CM12-3004PA	0~4	15~30VDC	PNP	NO	200mA
CM12-3004PB	0~4	15~30VDC	PNP	NC	200mA



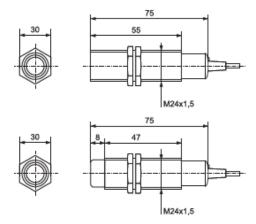
Туре	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load
CM18-3004NA	0~8	15~30VDC	NPN	NO	200mA
CM18-3004NB	0~8	15~30VDC	NPN	NC	200mA
CM18-3004PA	0~8	15~30VDC	PNP	NO	200mA
CM18-3004PB	0~8	15~30VDC	PNP	NC	200mA
CM18-2008A	0~8	90~230VAC	SCR	NO	300mA





CM24-2012A

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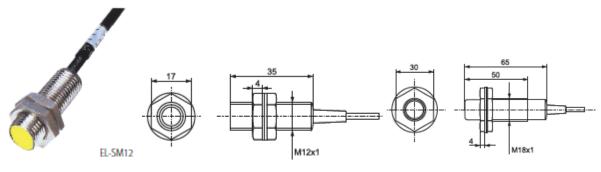


SCR

NO

300mA

Туре	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load
CM24-3012NA	8	15~30VDC	NPN	NO	200mA
CM24-3012NB	8	15~30VDC	NPN	NC	200mA
CM24-3012PA	8	15~30VDC	PNP	NO	200mA
CM24-3012PB	8	15~30VDC	PNP	NC	200mA

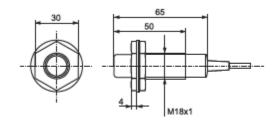


90~230VAC

Туре	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load
SM12-3110NA	10	15~30VDC	NPN	NO	200mA
SM12-3110NB	10	15~30VDC	NPN	NC	200mA
SM18-3110PA	10	15~30VDC	PNP	NO	200mA
SM18-3110PB	10	15~30VDC	PNP	NC	200mA







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Туре	Start distance (mm)	Power supply voltage	Type of transition	Type of contact	Output load
XM18-305PMI	5	15~30VDC	inductive	NO	100mA
XM18-305PMU	5	15~30VDC	inductive	NC	100mA
XM24-308PMI	8	15~30VDC	inductive	NO	300mA
XM24-308PMU	8	15~30VDC	inductive	NC	300mA

Note: MI – current type; MU – voltage type

Standards: EN 60947-5-2:2007/A1:2012

EN 60947-5-3:1999/A1:2005

