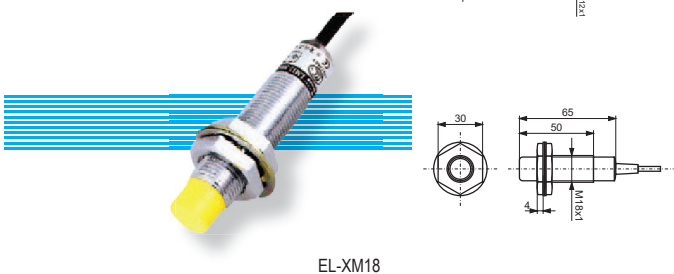
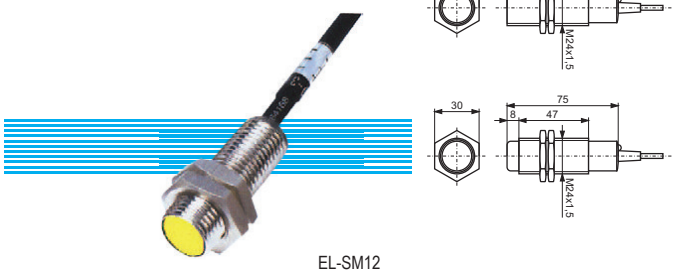
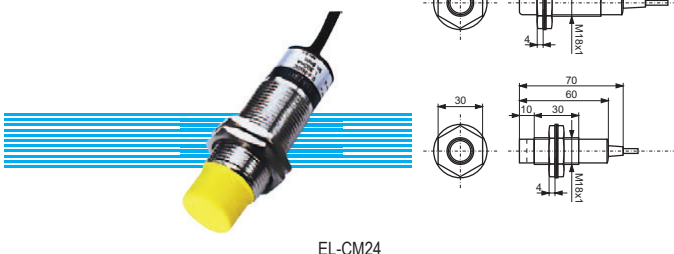
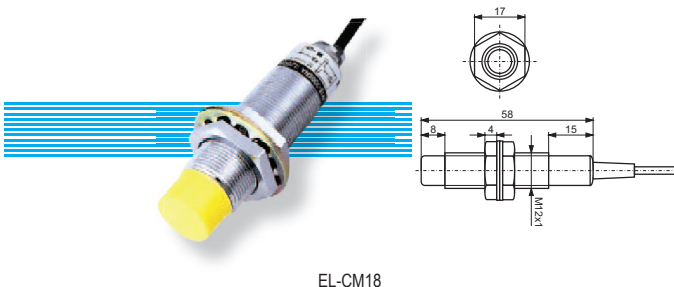
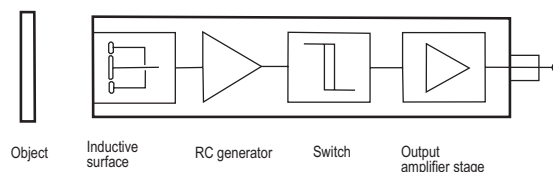


Capacitive sensors are used in machine systems and equipment for no-contact motion surveillance. They consist of two coaxial electrodes, a condenser and RC generator. This type of sensors reacts to both metal and non-metal objects, as the gearing distance for non-metal objects depends on their dielectric 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.

Capacitive sensors – series CM xx

- * 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 $+70^{\circ}\text{C}$
- * Gearing speed: 5mm/s
- * Rated voltage: 6~36VDC; 90~230VAC
- * Protection degree: IP 54

General scheme of a capacitive transducer



Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-CM12-3004NA	0~4 mm	24 VDC	NPN	NO	200 mA	1 / 100	46CM 12-32NA
EL-CM12-3004NB	0~4 mm	24 VDC	NPN	NC	200 mA	1 / 100	46CM 12-32NB
EL-CM12-3004PA	0~4 mm	24 VDC	PNP	NO	200 mA	1 / 100	46CM 12-32PA
EL-CM12-3004PB	0~4 mm	24 VDC	PNP	NC	200 mA	1 / 100	46CM 12-32PB

Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-CM18-3008NA	0~8 mm	24 VDC	NPN	NO	200 mA	1 / 100	46CM 18-38NA
EL-CM18-3008NB	0~8 mm	24 VDC	NPN	NC	200 mA	1 / 100	46CM 18-38NB
EL-CM18-3008PA	0~8 mm	24 VDC	PNP	NO	200 mA	1 / 100	46CM 18-38PA
EL-CM18-3008PB	0~8 mm	24 VDC	PNP	NC	200 mA	1 / 100	46CM 18-38PB
EL-CM18-2008A	0~8 mm	230 VAC	SCR	NO	300 mA	1 / 100	46CM 18-28A

Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-CM24-3012NA	8 mm	24 VDC	NPN	NO	200 mA	1 / 100	46CM 24-12NA
EL-CM24-3012NB	8 mm	24 VDC	NPN	NC	200 mA	1 / 100	46CM 24-12NB
EL-CM24-3012PA	8 mm	24 VDC	PNP	NO	200 mA	1 / 100	46CM 24-12PA
EL-CM24-3012PB	8 mm	24 VDC	PNP	NC	200 mA	1 / 100	46CM 24-12PB
EL-CM24-2012A	8 mm	230 VAC	SCR	NO	300 mA	1 / 100	46CM 24-12A

Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-SM12-3110NA	10 mm	24 VDC	NPN	NO	200 mA	2 / 200	46SM 12-31NA
EL-SM12-3110NB	10 mm	24 VDC	NPN	NC	200 mA	2 / 200	46SM 12-31NB
EL-SM18-3110PA	10 mm	24 VDC	PNP	NO	200 mA	1 / 100	46SM 18-31PA
EL-SM18-3110PB	10 mm	24 VDC	PNP	NC	200 mA	1 / 100	46SM 18-31PB

Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-XM18-305PMI	5 mm	24 VDC	inductive	NO	100 mA	1 / 100	46XM 18-35A
EL-XM18-305PMU	5 mm	24 VDC	inductive	NC	100 mA	1 / 100	46XM 18-35B

Note: Sensor of Hal

Type	Start distance	Power supply voltage	Type of transition	Type of contact	Output load	Packing / Box (pcs)	Catalogue number
EL-XM24-308PMI	8 mm	24 VDC	inductive	NO	300 mA	1 / 100	46XM 24-38A
EL-XM24-308PMU	8 mm	24 VDC	inductive	NC	300 mA	1 / 100	46XM 24-38B

Note: MI - current type
MU - voltage type