

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with the 'O' being a simple circle. The entire logo is set against a light yellow rectangular background.

Automatización Eléctrica

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Ideal for simple built-in control

This compact but powerful ON/OFF controller is provided with a sensor and is available in an analogue or digital version. Mounting is in-panel with a standard PTF14A-E socket.

- Available in 4 application specific ranges.
- Sensor provided to enable immediate usage.
- High capacity output of 10 A at 250 VAC for direct load switching.
- Simple operation and setting. Even simpler with digital model.

Ordering information

Model	Size (HxWxD)	Type	Control Method	Control Output	Order code
E5L-A_	35×45×64 mm	Plug-in	ON/OFF operation	Relay	E5L-A-30-20
					E5L-A-0-50
					E5L-A-0-100
					E5L-A-100-200
E5L-C_	35×40×64 mm	Plug-in	ON/OFF operation	Relay	E5L-C-30-20
					E5L-C-0-100
					E5L-C-100-200

Options (Order separately)

Sockets		Order code
Type		
Front-connecting Socket		PTF14A
		PTF14A-E

Specifications

Ratings		
Item	Model	
	E5L-A_	E5L-C_
Power supply voltage	100 to 240 VAC, 50/60 Hz	
Operating voltage range	85% to 110% of the rated supply voltage	
Power consumption	Approx. 3 VA	
Inputs	Element-interchangeable thermistor	
Control method	ON/OFF control	
Control output	SPDT contacts, 250 VAC, 10 A, $\cos\delta = 1$ (resistive load)	SPST-NO contacts, 250 VAC, 10 A, $\cos\delta = 1$ (resistive load)
Setting method	Analogue setting	Digital settings using keys on front panel
Indication method	No display	LCD digital display (character height: 12 mm)
Other functions		Setting protection (key protection) Input shift Direct/reverse operation
Indication accuracy	–	$\pm(1^\circ\text{C} + 1 \text{ digit}) \text{ max.}^*$
Setting accuracy	–	$\pm(1^\circ\text{C} + 1 \text{ digit}) \text{ max.}^*$
Hysteresis	-30 to 20°C models: Approx. 0.5 to 2.5°C (variable) 0 to 50°C models: Approx. 0.5 to 4°C (variable) 0 to 100°C models: Approx. 0.5 to 4°C (variable) 100 to 200°C models: Approx. 0.7 to 4°C (variable)	1 to 9°C (in increments of 1°C)
Repeat accuracy	1% FS max	–
Minimum scale (standard scale)	-30 to 20°C models and 0 to 50°C models: 5°C 0 to 100°C models and 100 to 200°C models: 10°C	–
Influence of temperature	–	$\pm([1\% \text{ of PV or } 2^\circ\text{C, whichever is greater}] + 1 \text{ digit}) \text{ max.}$
Influence of voltage	–	–
Sampling period	–	2 s
Insulation resistance	100 MW max. (at 500 VDC)	
Dielectric strength	2,300 VAC, 50/60 Hz for 1 min (between charged terminals and uncharged metallic parts, between power supply terminals and input terminals, between power supply terminals and output terminals, and between input terminals and output terminals)	
Vibration (malfunction)	Frequency of 10 to 55 Hz, 0.5-mm double amplitude for 10 min each in X, Y, and Z directions	
Vibration (destruction)	Frequency of 10 to 55 Hz, 0.75-mm double amplitude for 2 h each in X, Y, and Z directions	
Shock (malfunction)	147 m/s ² , 3 times each in 6 directions	100 m/s ² , 3 times each in 6 directions
Shock (destruction)	294 m/s ² , 3 times each in 6 directions	
Electrical life expectancy (control output relay)	100,000 operations min (at maximum applicable load)	
Memory protection	–	Non-volatile memory (100,000 write operations)
Weight (Thermostat)	Approx. 80 g (Thermostat only)	
Degree of protection	Front panel: IP40, Terminals: IP00	
Approved standards	–	
Conformed standards	EN 61010-1 (IEC 61010-1), Pollution Degree 2, Overvoltage Category II	
EMC Directives	EMI: EN61326-1 Radiated EMI: EN55011 Group 1 Class A Conducted EMI: EN55011 Group 1 Class A EMS: EN61326-1 Electrostatic discharge immunity: EN61000-4-2 Electromagnetic field strength immunity: EN61000-4-3 Burst noise immunity: EN61000-4-4 Conducted disturbance immunity: EN61000-4-6 Surge immunity: EN61000-4-5 Voltage dip and power interruption immunity: EN61000-4-11	

* The accuracy of the accessory thermistor is not included.

Socket dimensions

Type	Size in mm (HxWxD)
PTF14A	78.5x45.5x30.0
PTF14A-E	78.5x45.5x33.0



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Proximity sensor, plastic body, inductive, M12, shielded, 2mm, DC, 3-wire, PNP-NO, 2m cable	131996		Buy on EAN
	131994		Buy on EAN
E5CN-M option board- heaterburnout/SSr failure detection and event inputs, **only compatible with new E5CN-M models**	169471		Buy on EAN
	130084		Buy on EAN