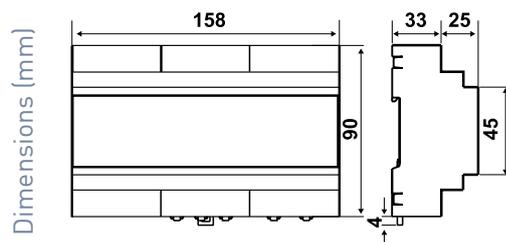
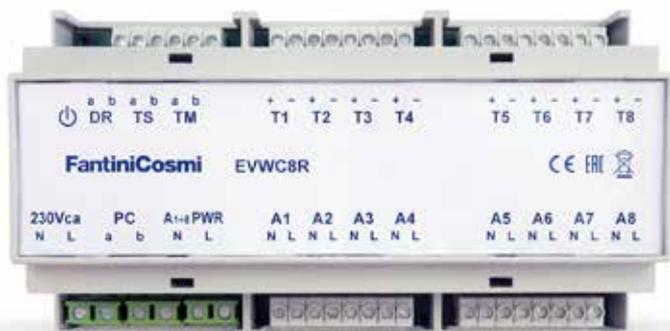


# EVWC8R

## 8 inputs/8 outputs connection bar with a 2-wire connection of CH110R series remotely powered thermostats

The EVWC8R connection bar is a device to be installed in the distribution manifold box to facilitate the connections between the room thermostats, the 230Vac thermal actuators and possibly a circulation pump. EVWC8R allows the connection, via only 2 wires, of the Fantini Cosmi CH110R series remotely powered thermostats



	Power supply	Contact range	Auxiliary pump relay	Consumption	Protection rating
EVWC8R	230V 50Hz	5(3)A	5(3)A	4 VA	IP20

## ELECTRICAL CHARACTERISTICS

- Power supply: 230Vac  $\pm$ 10% - 50Hz
- Absorbed power: 4VA max (load excluded)
- Max applicable load: total 3A
- Device protection: Delayed fuse 0.5A/T (F1 5x20 mm type)
- Relay A1-8 output protection: Delayed fuse 5A/T (F2 5x20 mm type)
- PC relay contact range: 5 (3) A - 250Vac
- Maximum cable cross-section: 2.5 mm<sup>2</sup>

## HOMOLOGATION AND STANDARDS

Compliant to EN60730-1 and second parts



## INSTALLATION

- DIN rail mounting (9 modules).
- Connect the device to the power supply by means of a two-pole switch that complies with the current regulations and with a contact opening distance of at least 3mm between each pole.
- The installation and electrical connections must be carried out by skilled personnel and in compliance with current regulations.

# OPERATION

The inputs for the room thermostats (T1-T8) allow the Fantini Cosmi electronic thermostats mod. CH110R, which are remotely powered directly by the two-wire connection, to be connected with the respective input of the connection bar.

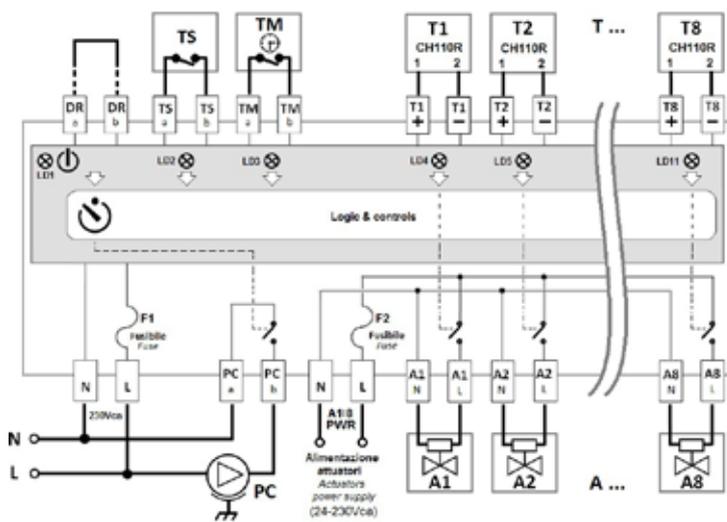
There are two other ON/OFF inputs that allow auxiliary devices to be connected, with a NC potential-free output contact, in order to subordinate the activation of the thermal actuators to the consent of a Safety Thermostat (ST) and a programmable timer (TM) to control the activation time bands. If the ST and TM inputs are not used, implement a jumper on the respective terminals to give consent to the command of the actuators.

The connection bar is also equipped with a relay output (NO potential-free contact) to control the circulation pump. When one or more actuators are activated by the respective thermostats, after a delay of about 5 minutes, the pump control contact (PC) is activated; the control remains active as long as at least one actuator is active.

The pump activation delay can be cancelled by closing the "disable delay" input (DR); it is advisable to keep the delay active so as to prevent the pump from working under stress, during the time necessary for the thermal actuator to fully open the manifold valve. The circulation pump output is not protected by the fuse.

The connection bar is equipped with LED signals that indicate the status of the ST/TM inputs, the status of the T1-T8 inputs and the status of the PC circulator output.

## DESCRIPTION OF ELECTRICAL CONNECTIONS



T1-T8 Zone thermostats



TS Safety thermostat with NC potential-free contact



TM Timer to control the operation time bands, with an NC potential-free contact



A1-A8 Thermal actuators 230Vac

 When the warning light is on it indicates that the fuse (F) is intact.

DR Close the DR input to deactivate the activation delay of the circulation pump.

PC Circulation pump; the PC output is not protected by the fuse (F).

 The pump activation delay is about 5 minutes; it can be deactivated by closing the DR contact.

# SPECIFICATIONS

Operating temperature 0°C- 45°C, RH 80% max non-condensing.  
Storage temperature -10°C - 50°C.