



**PULSER...X010 is an electric heating controller for time-proportional control of electric heaters, electric panels, underfloor heating etc. PULSER...X010 is controlled by an external signal from a controller.**

- \* For loads up to 3.6 kW (230 V) or 6.4 kW (400V)

## Function

PULSER...X010 is an electric heating controller (triac control) for single phase or two phase electric heating. It is controlled by an external signal, 0...10 V DC. PULSER...X010 is primarily intended for wall mounting and is connected in series between power supply and an electric heater, for example an electric duct heater or an electric panel.

The controller utilises time-proportional control, the ratio between On-time and Off-time is varied to fit the prevailing heating requirement. For example, when the control signal is 5 V, the On-time is 30 s and the Off-time is 30 s, which gives 50% output power. The sum of On-time and Off-time (the pulse period) is 60 seconds.

Triac control is much more accurate than On/Off control. It contributes to reduced energy costs and comfortable temperature.

Since the current is switched by a semiconductor, there are no moving parts that can wear out. The current is switched at zero phase angle to eliminate network disturbance.

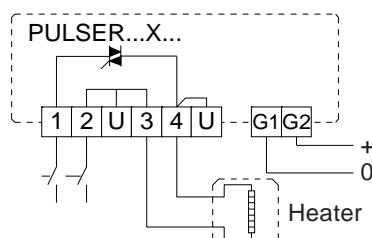
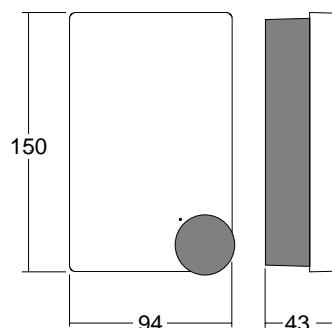
## Models

PULSER220X010	Supply voltage 230 V.	Control signal 0...10 V DC.
PULSER380X010	Supply voltage 400 V.	Control signal 0...10 V DC.

## Technical data

Supply voltage	230 V AC (PULSER220X010) or 400 V AC (PULSER380X010), +/- 15%. 50...60Hz. 1-phase or 2-phase.
Load	Up to 16 A. Min. 1 A. For PULSER220X010 the max. load is 3.6 kW and the min. load is 230 W. For PULSER380X010 the max. load is 6.4 kW and the min. load is 400 W.
Power dissipation	20 W at full load
Ambient temperature	0...30°C, non-condensing
Ambient humidity	Max 90%RH
Storage temperature	-40...+50°C
Protection class	IP20
<b>CE</b>	This product conforms with the requirements of European EMC standards CENELEC EN50081-1 and EN50082-1, European LVD standards IEC669-1 and IEC669-2-1 and carries the CE mark.
Pulse period	60 sec
Control signal	0...10 V DC

## Dimensions and wiring



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