

today, tomorrow and in the future

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Product Overview

The SST Soft Start Timer is a fully weatherproof (IP65-rated) solution for controlling electric heaters (such as quartz halogen). It provides timed heat on demand, yielding energy savings by switching off automatically when unattended, whilst prolonging the life of the heater using soft-start and soft-stop technology.

The SST4-RPB features low voltage safety isolated terminals for the connection of a momentary action switch (such as a retractive rocker switch, not supplied) with which to operate the unit. When triggered, power is gradually applied to the heater over 3 seconds, reducing stress to the element and electrical supply. After an adjustable time period has elapsed, the heater is turned off in a similar manner.

Product Wiring

- 1. A suitable means to isolate the electrical supply to the unit must be provided.
- 2. The power terminals are suitable for use with up to 4mm² conductors. Use round cable of an appropriate rating for the loads to be connected, noting that the **SUPPLY** terminals carry the total load current, as well as powering the control circuitry. Ensure all connections are tight, and free of stray strands.
- 3. The power cable glands are suitable for outer diameters of 7 to 13mm. If more than one load cable is to be connected, use an appropriate junction box. **Do not** pass more than one cable through one gland.
- 4. Remote input terminals are suitable for up to 2.5mm² solid or 1.5mm² stranded conductors. Low voltage cable may be used, but must have a round profile (not oval or figure-8) of 4 to 9mm outer diameter.
- 5. When retightening the gland nuts onto the cable, ensure that the rubber sealing ring is correctly in place and that the gland firmly grips the *outer* sheath.

Installation



All electrical installation and maintenance must be carried out by qualified personnel in accordance with the current edition of the IET Wiring Regulations (BS7671).

- 1. Loosen the four screws to remove the front cover.
- 2. Mount the unit securely to a vertical surface (away from direct radiation from the heater, and preferably also from direct sunlight) using appropriate hardware with the four mounting holes indicated in Figure 1. **IMPORTANT:** The cable glands must face downwards. Drilling any additional holes in the box may harm the integrity of the watertight seal and invalidate the warranty.
- 3. Make connections as detailed in Figure 1 and the *Product Wiring* section.
- 4. Adjust the internal controls to suit the operational requirements (see Setup below).
- 5. Reattach the cover securely, alternating between screws in opposite corners to create an even seal.

Setup



Ensure the electrical supply to the unit is isolated before making any adjustments.

- 1. If the front cover is installed: Remove the four screws and lift off the cover.
- 2. Adjust the **Delay** dial to set the period after which the load will automatically switch off, e.g. 30 minutes.
- 3. Reattach the cover securely, alternating between screws in opposite corners to create an even seal.

Operation

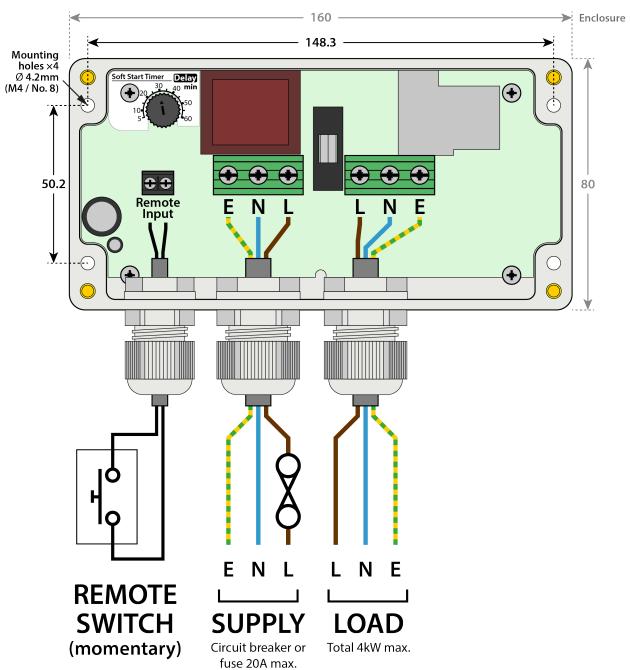
- 1. To activate the unit, press the connected pushbutton briefly. The heater will be gradually powered up over a 3-second soft start.
- 2. The unit may be retriggered at any time (resetting the time delay) with a brief press of the button.
- 3. When the time delay expires, or if the button is held down for 3 seconds, the unit will gradually turn off the heater over 3 seconds, and then return to the standby state.

Additional operating guidelines:

- 1. If the unit is retriggered just after it has switched off, there may be a slight delay before the heater starts up. This is normal and helps to protect the unit from overheating.
- 2. If the unit will not trigger, it may have detected excessive use and temporarily inhibited activation as a protective measure. Wait 20 to 60 seconds before reattempting to operate the unit.

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Figure 1 Typical wiring example and dimensions (in millimetres)



Technical Specification	
Power supply:	220V - 240V AC 50Hz (live/neutral/earth)
Load capacity:	35W - 4000W (resistive)
Power consumption (control circuit):	<1W (standby), 2W (active)
Internal fuse (for control circuit):	250V F1A (fast blow), 5 x 20mm glass cartridge
Output type:	Triac soft-start/stop with relay bypass (switched L, common N)
Remote input type:	SELV, momentary (normally open)
Cable gland capacity:	Supply/Load: M20, for 7-13mm dia. round cable Remote Input: M16, for 4-9mm dia. round cable
Time delay:	5 to 60 minutes (continuously adjustable)
Operating temperature:	-10°C to +40°C
Protection rating:	IP65
Guarantee:	5 Years
Weight:	450g
Dimensions (excluding projections):	160mm x 80mm x 55mm

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Technical Support

For further help or information on this and the other products in the MS Electronics range visit www.mselectronics.co.uk or call 0333 666 1176.

Alternatively, email techsupport@mselectronics.co.uk Additional copies of this product guide can be downloaded from our website.

Product Warranty

MS Electronics guarantees all their products against manufacturing defects for 5 years from the purchase date. If your product is found to be faulty, MS Electronics will, at their discretion, repair or replace the product free of charge.

Note

Any modification or damage to the outer casing of the product, as well as any damage to the product due to abuse or incorrect wiring may invalidate the guarantee.



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