

NOTE

This product is intended for professional installation only by suitably qualified personnel in accordance with current electrical and mechanical safety and EMC standards. Installation to be in accordance with the current edition of IEE wiring regulations BS7671:2008, 17th edition.

- This product is deemed a component only for professional assemblers for incorporation into apparatus and systems or installations for which its own EMC and safety standards will apply, and for which SunSwitch is not responsible.

N.B. clearance inside the back box is limited. If fitting nylon cable glands trim off threaded spigot above nut. If fitting conduit, cut off excess threads not required for lock nut.

Overview

The EC1 Equine SunSwitch Controller is designed to control heat output. When turned down, the EC1 reduces energy consumed and, since the solarium heaters then run cooler, the operating life of the elements is extended.

Features

- 0 -100% control of up to 3kW load at 240Vac
- Integral ON/OFF switch
- High reliability semiconductor circuit
- Integral RFI filter for CE EMC compliance
- Standard BS pattress box with conduit knockouts integrates readily with other UK electrical fittings.

The EC1 employs an advanced phase-cut circuit with a high surge rating triac. It is extremely simple to install, with just neutral, live and earth inputs, and connections to the heater/s. The EC1 housing is a standard 'metalclad' type BS pattress box that integrates readily with other UK electrical fittings e.g. conduit fittings.

Installation

Points to remember

1. This product is not weatherproof and so must be mounted indoors, away from any risk of splashing.
2. This product should be installed by suitably qualified personnel in accordance with current electrical/mechanical safety and EMC standards.
3. The EC1 must be surface mounted on a wall and not recessed into a cavity. It must be sited away from direct sources of heat and outside the radiant zone of the heaters, in a position where adequate ventilation exists. Allow at least 25mm clearance on all sides. Do not cover or mount in unventilated panels. In operation the unit becomes slightly warm. This is normal.

No liability can be accepted for any loss or injury arising from the installation use or removal of this product. Specifications are liable to change without notice.



Equine SunSwitch EC1 Installation instructions



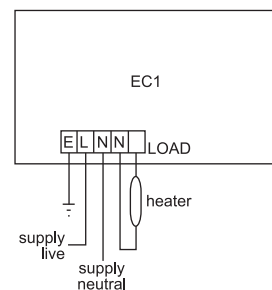
Protection fuse

It is recommended that a suitable fuse or circuit breaker (MCB) be employed to protect the controller and the supply from overloading. The fuse level depends on the load current rating. The maximum fuse value for this product is 20A.

Conformity

EN55011 Class A and EN55022 Class A.

Wiring



Specification

Supply voltage	200 - 264Vac 50-60Hz
Current rating	13A @ 30°C ambient; 17A @ 25° ambient
Triac current	24A rms
Peak surge current	240mA
Holding load current	30mA (min)
Repetitive peak voltage	600V
I ² t for fusing	112A ² S
Isolation	2500V rm
Storage temperature	-10°C to 80°C
Weight	0.55Kg
Dimensions	86 x 146 x 47mm (hwd)

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