

EP-SW72

Fusible Thermal Link



Features:

- Fast acting thermal fuse @ 72°C (162°F)
- Easy access to terminals and thermal fuse

Technical Overview

The EP-SW72 electro-thermal link for use in gas safety circuits.

Units consist of a ventilated, high temperature, self-extinguishing resin case, containing a fully enclosed thermal fuse. The fuse is manufactured to fail at 72°C thus causing an open circuit between the two terminals. Typically this unit would be located above boilers as part of the gas safety circuit.

Specification:

Connections	2 core terminal block
Electrical Rating	240Vac 5A Max
Dimensions	62 x 62 x 38mm (2.44 x 2.44 x 1.5")
Casing Material	GE Noryl GFN3 black V0 flame retardant
Temperature range:	
Ambient	0 to 180°C (32 to 356°F)
Activation	72°C (162°F)
Cable Entry	20mm Diameter.
Protection	IP20
Country of origin	UK

Part Codes:

EP-SW72	Electro-thermal link
EP-SW72-FUSE	Replacement thermal fuse



The products referred to in this data sheet meet the requirements of EU 2004/108/EC and 2006/95/EC

Installation:

The EP-SW72 is designed to be supported at the cable entry point. Typically this would be achieved using 20mm galvanised conduit and a brass retaining bush passed through the cable entry hole. Care should be taken not to over tighten the bush as this may damage the plastic case.

The number of links and their exact location is site dependant and should be decided primarily based upon the requirements under an emergency condition. The thermal fuse will activate at 72°C (162°F) so a single electro-thermal link mounted 1m above a bank of four boilers will take a lot longer to react than if four units are situated one above each boiler at a height of 100mm (3.94").

THIS UNIT MUST NOT BE FIXED DIRECTLY TO THE CEILING. Air must be able to pass freely through the case in order to ensure the best protection. One set of vents must be facing down and one set facing up to ensure proper air flow through the unit. A minimum space of 100mm (3.94") above and below the unit is required. Whether the lid is facing upwards or downwards will not affect the functionality of the unit and should be decided upon with regard to ease of wiring and access for replacing the thermal fuse.

The lid must be secured using the two screws provided to prevent live parts from being exposed once the system is running.

Wiring:

Wiring should be carried out by a qualified electrician only and should be carried out in conjunction with, and to meet the requirements of all the relevant wiring regulations.

The electro-thermal link is effectively a switch and therefore the terminals are interchangeable. Earthing requirements for any metal conduit should be observed but the EP-SW72 itself does not require earthing.

DO NOT TERMINATE ANY OTHER CABLES IN THE CASING OR USE THE UNIT AS A JUNCTION BOX. This may impede air flow through the unit and reduce its effectiveness as a safety device.

The lid must be secured using the two screws provided to prevent live parts from being exposed once the system is running.

Wiring & Important Safety Information:

DEPENDING UPON THE INSTALLATION DANGEROUS VOLTAGES MAY EXIST WITHIN THIS UNIT.

- Fuse replacement should be carried out by suitably qualified personal only.
- Ensure power has been switched off. Do not forget to test for power at both terminals in the unit before working on it. If the fuse has activated one may be live whilst the other may be safe.
- Simply unscrew the old thermal fuse from the terminal block and replace it with the new one ensuring that it is securely fastened in the terminal block.
- Replace the lid and reinstate the system

If the thermal fuse activates, the reason for this should be thoroughly investigated before reinstating the system.

The thermal fuse should never be replaced with anything other than the correct replacement part EP-SW72-FUSE available from Sontay.

Using a wire link in place of the fuse even as a temporary measure will defeat the safety circuit with potentially catastrophic consequences.

Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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