Electro Magnet Remote Damper Release

INSTALLATION AND OPERATING INSTRUCTIONS

General

ELECTRO MAGNET REMOTE DAMPER RELEASES are designed to remotely release ACTIONAIR FIRE/SHIELD STAINLESS STEEL CURTAIN FIRE DAMPERS. ELECTRO MAGNET RELEASES are available for 24 VOLT AC and DC or 240 VOLT AC.

All moving parts enclosed within a dustproof compact galvanised steel casing and complete with two metres of plastic sheathed steel operating cable with adjustable nipple. One metre of PVC insulated three core electrical cable for site wiring terminating outside the duct eliminates in-duct fire potential due to wiring faults. The plastic sheathing of the steel operating cable and the PVC insulation of the three core electrical cable have an ambient temperature range of 5 °C to 70 °C.

The REMOTE DAMPER RELEASE should be positioned outside the duct near to the damper and must be firmly mounted to a secure surface. The plastic sheathed steel operating cable should be installed with a maximum of three 100mm minimum radius bends to minimise cable friction. Do not coil excess cable since this will interfere with the satisfactory operation of the release. The cable can be cut to length. Adjustment for tension is provided where the inner steel cable enters the release casing. There is an allowance of approximately 13mm of linear movement between the release and reset positions.

Installation of the release cable should be undertaken with the ELECTRO MAGNET energised and reset.

Fire/Shield Dampers

An 8mm diameter hole, for insertion of the plastic sheathed pull cable, should be drilled through the wall of the duct adjacent to, and preferably in line with the damper SELF LATCHING REMOVABLE RELEASE MECHANISM CASSETTE. This operates regardless of direction of insertion of the inner steel cable through the hollow centre of the CASSETTE release pin. Ensure that the adjustable cable nipple is securely located on the outside end of the cassette body or the manual finger release pin and the plastic sheathing abuts against the outside end of the cassette body or manual finger release pin.

It is vital that both the plastic sheathing and the inner steel pull cable have COMPLETE INDEPENDENT FREEDOM of ACTION to provide the pinch action of the release pin within the SELF LATCHING REMOVABLE RELEASE MECHANISM CASSETTE to mechanically trip the DAMPER to the closed position.

Electro Magnet Remote Fail-Safe Damper Release

The ELECTRO MAGNET REMOTE FAIL-SAFE DAMPER RELEASE is normally energised to hold open the FIRE/SHIELD DAMPER which will close when the electrical supply is interrupted, either as a function of a smoke detection system or due to failure of the electrical supply. This is independent of the operation of the damper cassette due to an in-duct rise in temperature above the cassette rating.

The green indicator when illuminated shows that electrical supply is available and that the ELECTRO MAGNET is holding the cassette in the latched position. On interruption of the electrical supply, the ELECTRO MAGNET will release, enabling the spring mechanism within the REMOTE FAIL-SAFE DAMPER RELEASE casing to pull the operating cable and mechanically trip the damper to the closed position, when the green indicator will extinguish.

It is recommended that the continuous electrical supply to the 24 Volt DC ELECTRO MAGNET is through a battery circuit and not an automatic change-over system.

Self Latching Removable Release Mechanism Cassette
**Resetting**

The ELECTRO MAGNET REMOTE FAIl-SAFE DAMPER RELEASE is resettable when the electrical supply is available, by pushing the black reset knob in. The green indicator will now be illuminated and the FIRE/SHIELD DAMPER can now be reset.

**Guarantee and Replacement Service**

ACTIONAIR ELECTRO MAGNET REMOTE DAMPER RELEASES should always be installed and operated in accordance with these instructions and the galvanised steel casing must never be opened otherwise the GUARANTEE IS INVALIDATED. Should the FIRE/SHIELD DAMPER not close when the ELECTRO MAGNET is de-energised, adjust the operating cable and retension by repositioning the cable nipple and adjusting the cable where it enters the REMOTE DAMPER RELEASE casing. Should the FIRE/SHIELD DAMPER not hold, then the damper cassette has not been fitted correctly or has operated.

All components are factory tested, and in the unlikely event of damage or malfunction developing the ELECTRO MAGNET REMOTE DAMPER RELEASE can be replaced and the original returned for repair and service.

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