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XP95A Short-circuit Isolator Installation Instructions

General

XP95A Short-circuit Isolators are designed to sense and isolate short-circuits on XP95A loops. The Short-circuit Isolator, part number 55000-750, is used in conjunction with an Isolator Base, part number 45681-211.

Control Panel Compatibility

The Short circuit Isolator and Isolator Base have been listed by Underwriters Laboratories Inc. For details of compatible control panels contact Apollo Fire Detectors Limited. Please check fire control panel literature for compatible Apollo devices.

Installation

The Short-circuit Isolator must be installed in accordance with applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of the unit or detectors to report an alarm condition. Apollo Fire Detectors Limited is not responsible for equipment which is improperly installed, maintained or tested.

Before installing the Short-circuit Isolator, check continuity, polarity and insulation resistance of all wiring. Check that siting is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Use 3" octagonal box for direct connection to the base. 4" octagonal and 4" square boxes may be used with proper UL listed mounting brackets. Secure the base to the electrical box with appropriate screws. **Do not overtighten the screws.**

Commissioning

It is important that the system be fully tested after installation. In normal operating conditions, apply short-circuits to the supply wiring at various points to confirm the isolators are functioning correctly. Ensure that any applicable local codes are adhered to.

LED Indicators

Yellow LED illuminated if a short circuit is detected on either side of the isolator.

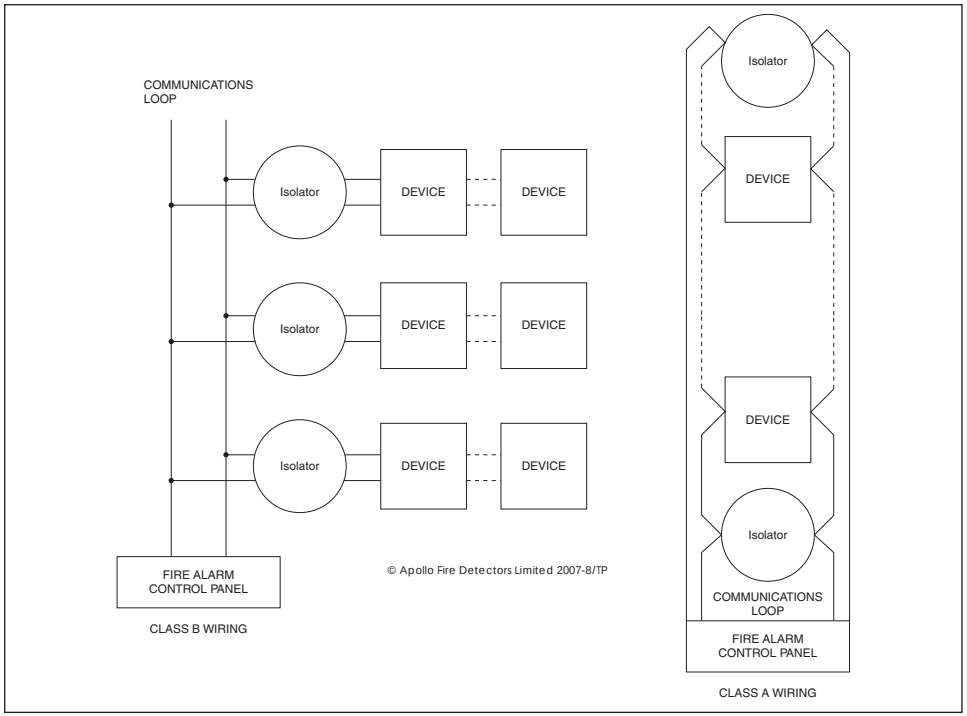

Fig 1 Class wiring diagram

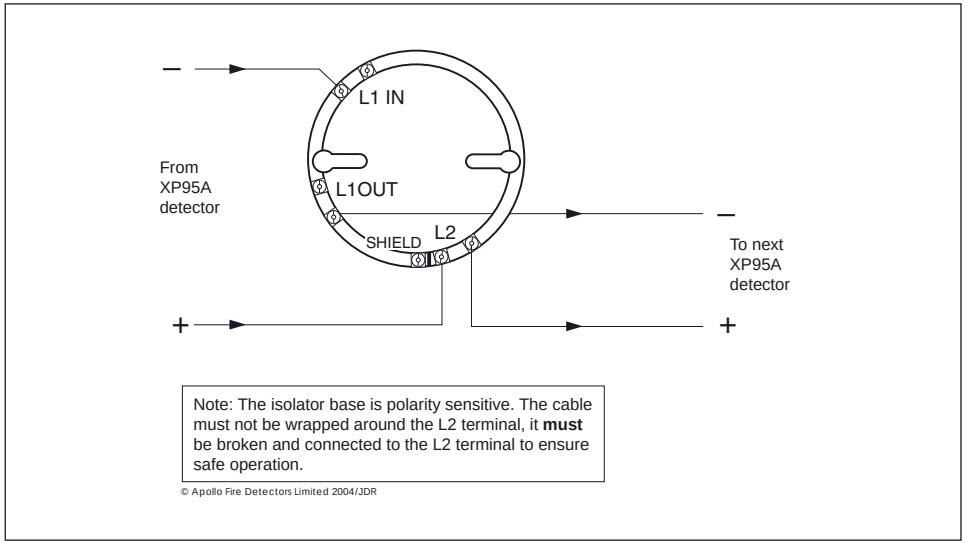

Fig 2 XP95A Isolator Base wiring diagram

Specifications

Part no	55000-750 (Isolator), 45681-211 (Isolator Base)	
Compatibility Identifier	55000-750 (Isolator), 45681-211 (Isolator Base)	
Type	Isolator and Isolator Base	
Style	Mounting base and twist-in isolator module	
Base material	White polycarbonate, V-0 to UL94	
Dimensions	4" x 1¼"	
Temperature range	32°F to 100°F (0°C to 38°C)	
Humidity	10 to 93% RH Non-condensing	
Wiring size	24AWG - 14AWG	
Signal Line Circuit (SLC)	Supervised	
Working voltage	17-28VDC (maximum DC voltage range)	
Operating current	Modulation Voltage	5-9V (peak to peak)
	Supervisory Current	110µA
	Surge Current	0mA
	Maximum current drawn	8.5mA
	Maximum line impedance	50Ω

Must be connected to power limited circuit with a maximum loop current of continuous 1A.