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A70 conventional interface

General

The A70E-2 is a ZP7 series, addressable interface for conventional fire detectors. It is fully loop powered and enables existing or new conventional fire detection zones to be interfaced to an addressable fire alarm system, allowing all areas of a site to be controlled by a Ziton addressable fire panel.

Via the A70E-2 each conventional zone is assigned a unique loop address. The zones are monitored for alarm and fault conditions and the status reported to the fire panel every 2 seconds.

Up to 15 Ziton Z600 series conventional devices can be connected to the interface, taking a single address on the loop. The Ziton protocol supports up to 127 addresses per loop.

Detector Head-out Removal Monitoring

The A70E-2 monitors its conventional zone wiring for open and short circuit faults via end-of-line resistors supplied with the unit. When Z600 detectors are installed with Z6-BS5 bases, the interface maintains complete operation of all zone devices even when a detector is removed from its base.

For maintenance purposes, clear visual indications are shown on the front of the A70E-2 for alarm (red LED) and fault (amber LED).

Multiple Application Support

Drawing its power directly from the fire detection loop and supporting low current consumption, the A70E-2 has additional system applications ranging from an interface to equipment for hazardous areas, the operation of magnetic door retainers (via an interposing relay) and even an interface for linear beam detectors.

Housed in a low profile housing, the A70E-2 is designed to clip directly onto a standard DIN35 rail fixing, or be installed in an optional housing (SMB-DIN1 - one unit capacity, or a SMB-DIN2 - two unit capacity). In systems where numerous interfaces are installed or current requirement is excessive, the A70E-2 can be powered from an external. EN54-4 approved power supply.



Details

- Interfaces conventional devices to an addressable loop
- Standard and intrinsic safe detector support
- Status reporteds 2 seconds
- Open, short and head-out supervision
- DIN35 rail mounted
- Up to 127 conventional zones interfaced to a ZP loop (with external PSU)
- EN54:18 approved and CPR certified

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Technical specifications

General

Compatibility	ZP2 and ZP3 addressable systems

Electrical

Operating voltage	Loop 19.5 to 20.5 VDC external 19 to 30 VDC
Current consumption	7.3 mA (quiescent) (ext. power) <36.6 mA (alarm) (ext. power) 8.3 mA (quiescent) (loop powered) <24.6 mA (alarm) (loop powered)

Physical

Physical dimensions	85 x 78 x 27 mm (W x H x D)
Net weight	80 g
Colour	White
Mounting type	DIN-rail, Surface mount
Material	Moulded ABS

Environmental

Operating temperature	-10 to +80°C
Relative humidity	20 to 95% noncondensing
Environment	Indoor, IS
IP rating	IP20

Regulatory

Certification	EN54-18

Wiring

Addressable loop	Two core screened
Conventional zone	Two core

Monitoring

	Open & short circuit fault

Conventional support

	<15 detectors

Detector compatibility

	UTC supplied conventional, IS detectors & barrier

End-of-line support

Standard devices	3k9 Ω
Intrinsically safe devices	8k2 Ω

Compatible products

Category	Reference	Description
Interface unit	SMB-DIN1	SM box C/W DIN for A modules
Interface unit	SMB-DIN2	SM box C/W DIN for A modules



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