

Intrinsically Safe Barriers and Protocol Translators

Features

- Ideal for Hazardous Areas
- Compatible with Ampac range of I.S Addressable & Conventional detectors
- Compatible with Ampac range of I.S Conventional Sounders and Beacons
- Enables compliance with ATEX Directives
- DIN Rail Mounting
- IP 65 Rated Wall Mount Enclosure

Description

Ampac offers an extensive range of isolated barriers and protocol translators to suit most applications for interfacing fire detectors onto conventional and addressable systems as well as driving IS conventional sounders and beacons.

The intrinsically safe barriers have been tested and certified so that over voltage on the primary (safe) side of the transformer cannot release energy across the winding to the secondary (hazardous) winding of the transformer.

The use of transformer isolated barriers combined with sounders means that installers may wire both detectors and sounders/beacons with no requirement for an intrinsically safe earth, making for a more simplified and cost-effective approach to hazardous areas.

The protocol translator is used in conjunction with the addressable intrinsically safe barrier and is installed in the safe area ensuring integrity of communication between the Ampac control equipment and the field fire detection devices. This ensures safety is maintained within the limits of BASEEFA approvals.

The protocol translator is powered direct from the addressable detection loop and is used to translate voltage levels derived from the Ampac control panel to be compatible with the requirements of intrinsically safe installations.

Din rail enclosures are available in two formats to house the intrinsically safe barriers and protocol translators.



I.S. Barriers and Enclosure

Item Numbers

201-0161	Orbis I.S. Galvanic Barrier 1 Channel
201-0198	Orbis I.S. Galvanic Barrier 2 Channel
201-0108	XP95 I.S. Protocol Translator 1 Channel
201-0155	XP95 I.S. Protocol Translator 2 Channel
201-0109	XP95 I.S. Galvanic Barrier 1 Channel
205-0112	Sounder/Beacon Solenoid Driver 1-channel
205-0117	Sounder/Beacon Solenoid Driver 2-channel
201-0142	DIN Rail Interface Enclosure (4 Units)
201-0153	DIN Rail Interface Enclosure (10 Units)

Specifications

Operating Voltage	24 VDC
Dimensions	20mm x 107mm x 115mm
Operating temperature	-20 °C to +60 °C
Relative humidity.	0 to 95% (non condensing)
IP rating	IP20 (indoor use)
Weight	Approx. 100 grams
Approvals	IECEX

For further information on use of intrinsically safe barriers and protocol translators, refer respective Product Guide. Orbis I.S. MAN3041 and XP95 I.S. MAN3054.