

# features

- Compatible with ZX series intelligent multi protocol fire alarm control panels
- Provides one class-A or class-B loop
- Supports Morley-IAS analogue addressable sensors and modules
- Plug-in connection
- Double address detection

The Morley IAS Loop Driver is a plug-in card for use in the ZX series intelligent multi protocol fire alarm control panels. This module allows ZX series control panels to support input/output points from Morley-IAS analogue addressable devices:

- Smoke Sensors (Ionisation and optical)
- Heat Sensors
- Monitor Modules
- Control Modules
- Isolator Modules
- Conventional Zone
- Addressable manual call points & pull stations
- Addressable sounders

The plug-in card provides power for and handles communications to the addressable devices. The loop driver continuously monitors the analogue values of all sensors and displays this value on the panel as a percentage of the alarm threshold value. Both the alarm and pre-alarm threshold levels can be adjusted from the control panel if required.

Up to 198 devices (99 sensors and 99 modules) can be connected to a single loop driver. Each device has two rotary decade switches to allow a unique address to be selected.

The loop driver can support class-A and class-B wiring configurations. Short-circuit isolation and double address detection are built into the plug in card.

The AUTO-LEARN facility provided in the ZX series control panels saves considerable time and effort when installing a new loop or when changing sensor configuration. It allows the system to learn for itself what devices have been installed on the loop.



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# Morley-IAS Loop Driver Card Data Sheet

167(0102)

# mechanical

Dimensions (HxWxD):	90 x 54 x 18 mm
Weight:	32 gr. (1 oz)
Operating temperature:	0°C to 49°C
Humidity:	10% to 93% non-condensing

# electrical

Loop voltage : 24Vdc Nominal

Power consumption: 20mA

(excluding loop devices)

Maximum continuous loop drive current:

440mA per loop

Note - Remember to check loop and control panel loadings using the Loop and Battery calculator in Fire 6.1 or later.

Maximum circuit ratings:

Resistance: 40 Ohm max.

Capacitance: 0.5 $\mu$ F max.

Diagnostics:

Two diagnostic LED's to indicate which end of the loop is being driven.

Loop terminations:

Screw terminals on the motherboard for a maximum cable cross sectional area of 2.5 mm<sup>2</sup> (13 AWG) removable block.

Wiring:

Class A or class B with shielded, twisted wire. **part**

# number

**EN54**

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