features

- Compatible with ZX series intelligent multi protocol fire alarm control panels
- Provides one class-A or class-B loop
- Supports Discovery and XP95 detectors and modules
- Plug-in connection
- Double address detection

The Apollo Loop Driver is a plug-in card for use in the ZX series intelligent multi protocol fire alarm control panels. This card allows ZX series control panels to support input/output points from Apollo, XP95 and Discovery series addressable devices such as:

- Ion and photo smoke sensors (Ionisation & optical)
- Heat sensors
- Multi sensors
- Intrinsically safe heat and smoke sensors
- Loop powered beam detectors
- Switch and zone monitors
- Output and sounder control modules
- Manual call points
- Loop powered addressable sounders

The plug-in loop driver card provides power for and handles communications to the addressable devices. The loop driver card continuously checks the analogue values of all sensors and displays this value on the control 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 126 devices can be connected to a single loop driver card. Each Apollo device has either an XPERT key (in the detector base) or a Dual-In-Line (DIL) Switch (on the module) to allow a unique address, in the range 001 to 126, to be selected.

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

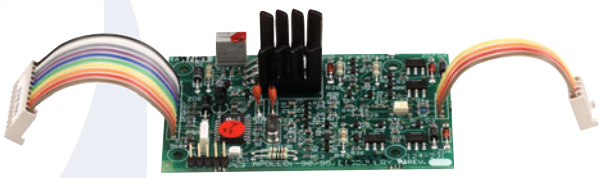
The AUTO-LEARN facility provided in the ZX series control panels saves considerable time and effort when installing a new loop or when changing sensor configuration. It allows the system to learn for itself what devices have been installed on the loop.

The fire alarm panel performs a calibration and contamination check once every 24 hours. If the detector zero point falls outside of specific limits or approaches the pre-alarm point, the panel will indicate a trouble. A calibration is automatically performed each time an Auto-Learn is performed. A manual "Calibrate" option is also available on the configuration menu.

MORLEY IAS
FIRE SYSTEMS

Charles Avenue, Burgess Hill
West Sussex, RH15 9UF
United Kingdom

Tel: +44 (0) 1444 23 55 56
Fax: +44 (0) 1444 25 44 10
Email: sales@morleyias.co.uk
www.morley-ias.co.uk



Apollo
Loop Driver Card
Data Sheet

153(0102)

We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.

mechanical

Dimensions (HxWxD):	90 x 54 x 25 mm
Weight:	32 gr. (1 oz)
Operating temperature:	0°C to 49°C
Humidity:	10% to 93% non-condensing

electrical

Loop voltage:

795-066 Card:	>25 V + signaling pulses
794-066 Card:	>25 V + signaling pulses

Power consumption:

795-066 Card:	40mA (excluding loop devices)
794-066 Card:	40mA (excluding loop devices)

Maximum continous loop drive current:

795-066 Card:	250mA (continuous) per driver
794-066 Card:	250mA (continuous) per driver

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:	36 Ohm max.
Capacitance:	0.6µF max.

Diagnostics:

One LED to indicate communication with a device.

Loop terminations:

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

Wiring:

Class A or class B with shielded, twisted wire.

approvals

UL LISTED

part numbers

EN54

795-066 Apollo XP95 and Discovery series loop driver card.

UL listed

794-066 Apollo XP95 and Discovery series loop driver card.

Your Local Distributor