features

- Compatible with ZXa and ZXe intelligent multi protocol fire alarm control panels
- Provides one class-A or class-B loop
- Supports Hochiki ASX (ESP) series analogue addressable modules
- Plug-in connection
- Double address detection

The Hochiki Loop Driver is a plug-in card for use in the ZXa and ZXe intelligent multi protocol fire alarm control panels. This module allows ZXa/ZXe control panels to support input/output points from Hochiki's ASX (ESP) series addressable devices such as:

- Heat sensor
- Photoelectric smoke sensor
- Ionisation type smoke sensor
- Mini zone monitor module
- Dual zone monitor module
- Dual switch monitor module
- Dual circuit sounder controller
- Dual relay controller
- Manual call point
- Loop powered sounder
- Short circuit isolator

The plug-in loop driver card provides power for and handles communications to the addressable devices. The loop controller 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 controller. Each Hochiki device has either a Dual-In-Line (DIL) Switch on the device or is programmed using a special tool to allow a unique address, in the range 001 to 126, to be selected.

The loop controller can support class-A and class-B wiring configurations. Short-circuit isolation and double address detection are built into this module.

The AUTO-LEARN facility provided in the ZXa and ZXe 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 fault. A calibration is automatically performed each time an Auto-Learn is performed. A manual "Calibrate" option is also available on the configuration menu.

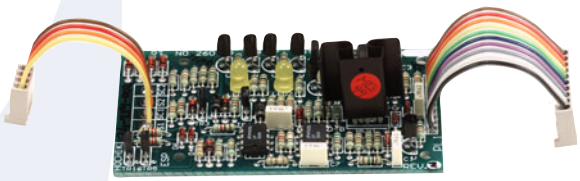
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LPCB
Quality Systems Certificate No 154
Assessed to ISO 9001

Hochiki
Loop Driver Card
Data Sheet



154(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:	25V nominal
Power consumption:	42mA (excluding loop devices)
Maximum continous loop drive current:	200mA

(max. 500 mA available for two loops in ZXa, max. 1250mA available for five loops in ZXe)

Maximum circuit ratings:

Resistance:	36 Ohm max.
Capacitance:	0.6µF 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^2 (13 AWG) removable block.

Wiring:
Class A or class B with non- shielded, twisted wire.

approvals

UL LISTED

part numbers

EN54

795-058-005	Hochiki loop driver card.

UL listed

794-058	Hochiki loop driver card.

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