



ZLSS4-LCD

LaserSense Ultra high sensitivity smoke detector

Earliest possible warning of fire

LaserSense Ultra is a high sensitivity smoke sensor designed to give the earliest possible warning of fire. Smoke from the protected area is drawn through the LaserSense detector and analysed twice every second by a laser pulse. Over a period of 24 hours smoke pollution distribution in the protected environment is compiled and a databank created. As the databank is continually updated, the detector adjusts sensitivity to match any changes in the normal ambient smoke density, ensuring that the detector provides a constant response.

Range of output options

The standard detector when connected to a conventional fire alarm zone provides outputs for fire (normally open) and fault (normally closed). These connections can be extended by the addition of a ZLSS-RL4 Relay Output Card (ordered separately) offering auxiliary alarm, pre alarm, fire 1, fire 2 and fault terminals.

The addition of a ZP-LS1-1 Addressable Interface Card (ordered separately), enables the unit to be connected directly to the loop wiring of any ZP analogue system. Alarm status and fault information from the detector are displayed directly on the main control panel, (subject to the software version installed in the ZP3 panel, see publication PS1839).

First fix docking station

To reduce time on site, the unit is installed onto a wall fixing plate, enabling all sampling pipes and cables to be completed at first fix stage.

The product features four aspirating pipe inputs, enabling up to a total of 200 metres of sampling pipe to be connected to each unit.

Smoke density levels are displayed by a 26 segment bar graph, located on the front of the detector. LED indication is provided for all alarm signals.

LaserSense aspirating smoke detectors use patented software to continually adjust the detector sensitivity in order to maintain a constant level of performance, enabling the product to automatically configure itself to provide high sensitivity in a clean environment, or reduced sensitivity in an area where ambient smoke may be present.

A comprehensive system guide covering the product is available from Ziton.



Standard Features

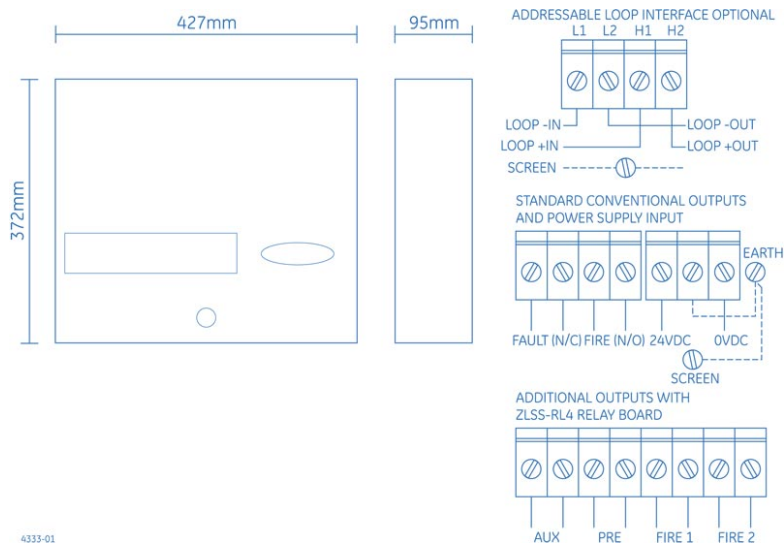
- High sensitivity, laser based technology
- Four sampling pipes – flexibility for up to 200 metre total pipework
- Connects directly onto ZP loop – status displayed on main control panel
- Local status displayed at detector
- Loop wired – via interface card
- Dynamically adjusted operating parameters

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Specifications

Model No	ZLSS4-LCD
Description	High sensitivity aspirating smoke detector
Compatibility	ZC8 and ZC3. ZP via ZP-LS1-1 addressable interface card
Mounting	Mounting plate
Sample pipe inlets	4
Sampling pipework	Recommended 50m per input (25m in moving air)
Sampling pipe diameter	27mm OD, ¾ inch nominal bore
Max sampling holes	25 per pipe run
Wiring	2 core screened twisted pair
Monitoring	Open and short circuit fault, via main control panel
Indication (LEDs)	Alarm, Fault, Normal Aux, Pre-alarm, Fire 1 and Fire 2. Smoke density by 26 element bar graph
Operating voltage	21.6 to 26.4 Vdc
Current	450 mA
Alarm levels	4 (Aux, Pre-alarm, Fire 1 and 2)
Relay outputs	Alert (n/o), Pre alarm (n/o), Fire (n/o) Fault (n/c)
Additional outputs	Via ZLSS-RL4 card Aux (n/o), Pre alarm (n/o), Fire 1 (n/o), Fire 2 (n/o) and Fault (n/c). ZP3 with ZP-LS1. Version 3.07 Fault, Alert, Pre alarm, Fire. For other software contact Ziton sales office.
EN60529 rating	IP50
Temperature range	-10°C to +60°C
Humidity range	0 to 90% RH (non condensing)
Material	Sheet steel enclosure
Dimensions	427mm (W) x 372mm (H) x 95mm (D)
Colour	Grey
Weight	5.2Kg
Publication No	PS1840



Ordering Information

Part No.	Description
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As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GE Security online or contact your GE Security sales representative.

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