



# FD810R-N

## Auto Aligning Reflective Beam Detector 50 - 100 m

### General

The FD810R-N consist of an infrared transmitter and receiver in one compact housing, and a ground level controller, which also doubles as a user interface for configuration and maintenance. The infrared signal from the detector is reflected by a prism and analyzed for smoke presence. It is particularly designed to be used where point smoke detectors are not applicable due to height or inaccessibility. The FD810R-N also features a motorized head, which allow for auto realignment in cases where gradual building shift occurs. The unit has relay outputs for alarm and fault and fits as such all types of fire panels

### Installer friendly

Getting the system operational is simplified by a number of groundbreaking features that combine to make the FD810R-N the quickest and easiest detector of its type to install. Once the detector head is connected, using the Easifit First Fix system, an integral LASER, which is aligned along the optical path of the beam, can be activated. This allows the reflective prism to be sighted quickly and with confidence. Once the LASER has been used to coarsely align the beam, the AutoOptimise beam alignment system takes over and automatically steers the beam into the optimum position.

### Flexibility

The system can be fully customised, according to the requirements of each installation. Both alarm thresholds (sensitivity) and time to Alarm/Fault can be set from the ground level System Controller. Additionally, the integrated accessory mount allows the use of a variety of standard fittings solve any specific installation issues.



### Details

- EN54/CPD approved
- Building Shift Compensation
- 2-wire Interface from Detector to System controller
- Laser Assisted Alignment
- Automatic Contamination Compensation
- Auto Alignment
- Support up to 2 detector heads
- Separate Fire and Fault Relays per Detector

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### Technical specifications

#### Electrical

Operating voltage	14 to 36 VDC
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#### Environmental

Operating temperature	-10 to +55°C
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Environment	Indoor
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IP rating	IP54
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#### Standards & regulation

Certification	EN54-12
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#### Range

50 - 100m
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#### Lateral detection

7.5 m
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#### Current consumption

low current mode	5.5 - 8 mA
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high current mode	36 mA
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#### Output relay rating

Voltage	30 VDC
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Current	2 A
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#### Optical wave length

850 nm
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#### Dimensions detector

W x H x D	135 x 135 x 135 mm
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Weight	500 g
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#### Dimensions controller

W x H x D	200 x 235 x 81 mm
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Weight	1000 g
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#### Dimensions reflector

W x H x D	100 x 100 x 9.5 mm
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Weight	70 g
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#### Colour

Gray-black
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