



FD810R-N

Auto aligning reflective beam detector 50 - 100m

General

The FD810R-N consists 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 allows 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 to solve any specific installation issues.



Standard Features

- 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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Specifications

Supply voltage	14 - 36 VDC
Range	50 - 100m
Lateral detection	7.5 m
Current consumption	
low current mode	5.5 - 8 mA
high current mode	36 mA
Output relay rating	
Voltage	30 VDC
Current	2 A
Optical wave length	850 nm
Operating temperature	-10°C to 55°C
Dimensions detector	
W x H x D	135 x 135 x 135 mm
Weight	500 g
Dimensions controller	
W x H x D	200 x 235 x 81 mm
Weight	1000 g
Dimensions reflector	
W x H x D	100 x 100 x 9.5 mm
Weight	70 g
IP rating	IP54
Colour	Gray-black

Ordering Information

Part No.	Description
FD810R-N	Auto aligning reflective beam detector 50 - 100m
FD805R-N	Auto aligning reflective beam detector 8 - 50m
FD805RH-N	Additional Detector, 8 - 50m, for use with FD805R-N or FD810R-N
FD810RH-N	Additional Detector, 50 - 100m, for use with FD805R-N or FD810R-N
OR2000	Reflective prism for beam detectors
FD-MB20	Mounting bracket for use with FD800 series and FD-MB30 & FD-MB40
FD-MB30	Single Reflector Adaptor for use with FD-MB20
FD-MB40	Four Reflector Adaptor for use with FD-MB20

