

# FD2705R

## 2000 series addressable reflective beam detector 5 - 50 m

### General

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The FD2705R and FD2710R provides an integral, loop powered analogue addressable reflective beam detector up to 100m distance.

### Configuration

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The FD2705R and FD2710R consist of an infrared transmitter and receiver in one single compact housing. The infrared signal is reflected by a prism and analysed for smoke presence. It is particularly designed to be use where point smoke detectors are not practical due to height or inaccessibility.

The FD27xxR series units are loop powered for connection to 1200/2000 series fire panels. They use the Aritech 2000 series protocol.

### Installer friendly

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Wiring is restricted to a minimum as the transmitter and receiver are in the same housing. The detector is very easily aligned by means of checking the alignment LEDs. Easy alignment ensures optimum operation, both electrically and mechanically. The unit is easily tested using the graduated obscuration test card supplied.

The low power consumption of the units allows multiple beams to be powered on the same loop without compromising the system's autonomy.

### Reducing false alarms

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Various alarm thresholds may be selected from to suit the environment. If the signal reduces to below the selected threshold and is present for  $\pm 10$  seconds, a fire condition is signalled. If the infrared beam is obscured rapidly to a level of 90 % or greater for  $\pm 10$  seconds, a fault condition is signalled. The detector monitors long term degradation of signal strength caused by component ageing or build up of dirt on optical surfaces.



### Details

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- Loop Powered
- 2000 series protocol
- Area coverage up to 600 m<sup>2</sup>
- Range from 5 - 50 m and 50 - 100 m
- Up to ceiling heights of 25 m
- Low current consumption
- 3 selectable alarm thresholds
- Self check and automatic contamination compensation
- Automatic discrimination between fire and fault
- Vertical or horizontal mount
- Easy wiring and unique alignment
- Microprocessor controlled
- Conforms to BS5839 part 5 and EN54

# FD2705R

## 2000 series addressable reflective beam detector 5 - 50 m

### Technical specifications

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#### Detection

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Coverage area <750 m<sup>2</sup>

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#### Physical

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Physical dimensions 210 x 130 x 120 mm (W x H x D)

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Colour Grey

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#### Environmental

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Operating temperature -30 to 55°C

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Environment Indoor

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#### Standards & regulation

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Certification EN54-12

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#### Supply voltage

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17 - 30 V dc

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#### Range

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FD 2705R 5 - 50 m

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FD 2710R 50 - 100 m

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#### Lateral detection

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7.5 m

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#### Current consumption

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Quiescent 5 mA

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Alarm 9 mA

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Fault 5 mA

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#### Optical wave length

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880 nm

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#### Operating temperature

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-30°C to 55°C

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#### Size

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210 x 130 x 120 mm

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#### IP rating

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IP50

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#### Construction

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Flame retardent ABS

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#### Colour

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Gray-black

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