

Thermal Detector FI750/T



- **Loop technology with Labor Strauss protocol**
- **For use as rate-of-rise heat detector 58°C or maximum heat detector 78°C**
- **Up to 240 devices per loop**
- **Output for remote indicator**
- **Function check by means of magnet or thermal test device**



Description

The addressable Thermal Detector FI750/T was developed for the indoor temperature supervision in a wide range of fire detection applications.

Depending on the parameter setup in the fire detection control panel, the detector operates either as rate-of-rise heat detector with a maximum alarm temperature of 58°C (EN 54-5 Class A1R), or as maximum heat detector with an alarm temperature of 78°C (EN 54-5 Class BS). In Class A1R the detector can be used up to a room height of 7.5m, in the Class BS mode a room height of 6m is permissible.

The loop technology with Labor Strauss protocol establishes a permanent communication between the fire detection control panel and the detector. That ensures periodical function testing of the detector.

Up to 240 loop elements can be addressed on a Labor Strauss loop. In this way, extensive fire detection systems can be designed with a minimum expense in cabling.

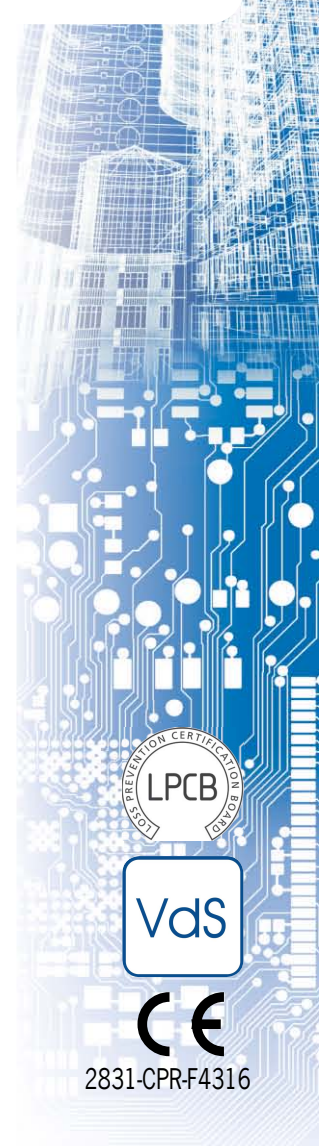
The two multicoloured LED displays on the detector are visible from all directions, thus facilitating the iden-

tification of the activated detector. The alarm condition is indicated in red and the test condition in green. In addition, an output is available for the connection of an optional remote indicator.

An integrated dual-isolator disconnects the loop in case of a short circuit. In this way, the undisturbed communication with the loop elements outside the faulty loop section is ensured.

The detector address is set by means of the hand-held Programming Unit FI750/PU within the range 1 to 240. In addition, the programming unit allows several parameters, such as the default analogue value or the production date to be read out. Alternatively, the detector can be addressed automatically if it is connected to a compatible fire detection control panel.

A detector function test can be conveniently conducted by using a test magnet or a thermal detector test device.



Specifications

Operating voltage	Supply through loop voltage
Current consumption at 24V	typ. 160µA (normal communication)
Current consumption LEDs (alarm condition)	typ. 6mA
Alarm temperature	
Class A1R	+58°C
Class BS	+78°C
Application temperature	
Class A1R	max. +50°C
Class BS	max. +65°C
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 – 95% (no condensation)
Dimensions Ø × H (without base)	106 × 50 (mm)
Colour	white
Weight	86g
Approvals	VdS G213044 LPCB 928a/02 2831-CPR-F4316
Order number	242086
Order name	Thermal Detector/750 FI750/T

