ADEVA®

Advanced Intelligent Rate of Rise & Fixed Temperature Detector FCHR751 / FCHRI751

Overview

- Advanced intelligent detection functionality
- Fully digital adressing technology
- Includes Advanced ADEVA protocol
- Available with or without single pole short circuit isolation with status control through the ADEVA protocol
- Optional inbuilt short circuit isolator
- 58^0C fixed temperature and rate of rise heat detectors
- Three-colour LED detector status indicator
- Wide operating voltage 15 to 32VDC
- Rotary decade address switches
- Pure white colour to compliments modern buildings
- %100 mechanical and electrical backwards compatibility
- New base design to compliment the detector
- Tested and approved to EN54-5:2000+A1:2002
  EN54-17:2005+AC:2007(for isolator)

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0786-CPR-21363
0786-CPR-21358

VdS
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G214040

Description

The revolutionary Advanced Intelligent ADEVA range delivers a totally new detector platform that incorporates the new digital Advanced Intelligent ADEVA protocol.The new protocol delivers more devices on the loop and gives greater control, configurability and device management whilst enabling the overall system to be optimised to the location and use of the building with far greater flexibility than ever before.
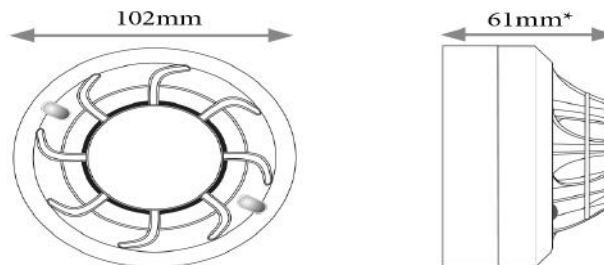
The FCHR751 uses the same thermistor and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10^0C/ minute (typical) or if the temperature exceeds a threshold of 58^0C (Response Class AIR). With the implementation of the Advanced Protocol, any model can be software configured to be either a fixed 58^0C, with rate of rise device. For backwards compatibility and approval continuityi three separate versions continue to be available as separate part numbers

The sensing elements of the heat sensor are panel controllable through the Advanced Protocol so the sensitivity thresholds of each element can be changed by the panel offering the ability to cos-tomise the device for the changing use of the area it is protecting. The FCHR751 has two integral tri-colour LEDs that provide 360^0C local visual indication of the device status.

All ADEVA detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible.

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Architect/Engineer Specifications

All ADEVA products are covered by our extended 5 years monufacturer warranty.

Electrical Specifications - Standard Product (FCHR751)

Operating Voltage Range	15 to 32VDC
Maximum Standby	200µA at 24VDC (no communications) / 300µA at 24VDC (LED blink enabled, once every 5s)
Led Current	Red: 3.5mA at 24VDC
	Green: 7.0mA at 24VDC
	Yellow: 10.mA at 24VDC
Remote Output Voltage	22.5VDC at 24VDC
Remote Output Current	10.8mA at 24VDC
Additional Loop Resistance Using the B501AP	typ 20mohm (max 30mohm)

Electrical Specifications - Isolator Product (FCHRI751)

Operating Voltage Range	15 to 28.5VDC
Isolation Current	15mA at 24VDC
Maximum Continuons Current	1A (Switch Closed)
Additional Loop Resistance	typ 80 mohm @24V (max 17mohm @15V)

Environmental Specifications

Temperature Range	-30^0C to $+70^0$C
Humidity	5 to 93% Relative Humidity (non condensing)

Heat Detection Performance

FCHR751 / FCHRI751	Class AIS - 58^0C fixed temperature and rate of rise
FCHF741 / FCHFI741	Class AIR - 58^0C fixed temperature
FCHH761 / FCHHI761	Class BS - 78^0C fixed temperature

Mechanical Information

Height	61mm installed in B501 base
Diameter	102mm installed in B501 base
Weight	88g (inc base)
Max Wire Gauge for Terminals	$2.5mm^2$
Colour	White
Meterial	PC/ABS

Product Range

Compatible Bases	B500 Series (B501, B501DG, B524RTE, B524HTR, B524IEFT-1) B501AP			
Other Devices in range	FCO731 / FCOI731 FCOT721 / FCOTI721 FCOTI781 / FCOII781	FCHF741 / FCHFI741 FCHH761 / FCHHI761 2251CTLE	7251 DNRE FTX-P1	2251EIS 6500
Other Colours in Range	Ivory			

*Note * When installed in a B501AP base*
† Do not install detectors in locations where normal ambient temperature exceeds 50°C

ADEVA LTD. Fire Alarm Systems

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