

Advanced Intelligent Photoelectric Smoke Detector FCO731 / FCOI731

Overview

- Advanced intelligent detection functionality
- Fully digital addressing technology
- Includes Advanced ADEVA protocol
- New mechanical platform with revolutionary chamber offering improved false alarm immunity
 - Improved detection across multiple fire types
 - Improved resilience to false alarms through insects
 - Removed risk of false alarms through insects
- Available with or without single pole short circuit isolation with status control through the ADEVA protocol
- Optional inbuilt short circuit isolator
- Three-colour LED detector status indicator
- Wide operating voltage 15 to 32VDC
- Rotary decade address switches
- Automatic drift compensation
- Pure white colour to compliment modern buildings
- %100 mechanical and electrical backwards compatibility
- New base design to compliment the detector
- Tested and approved to EN54-7:2000+A1:2002+A2:2006
EN54-17:2005+AC:2007(for isolator)



0786-CPR-21365
0786-CPR-21359

G214043
G214037

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 FCO731 photoelectric smoke detector has a completely new detection chamber design, the result of many years of research and design. This delivers improved responsiveness, reduced sensitivity changes caused by settling dust and reduced false alarms resulting from insect ingress and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarm. The devices are managed by embedded software running complex algorithms that further improve resilience to false alarms and improve detection speed.

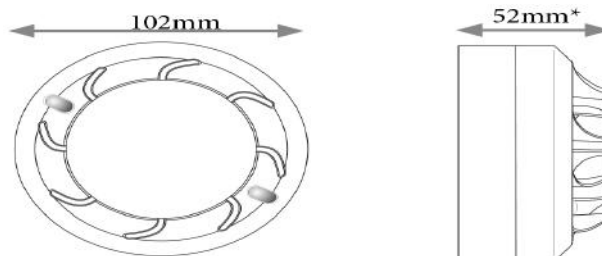
'Drift compensation' algorithms are one of the key features of the FCO731 detector. These algorithms ensure a consistent alarm sensitivity threshold for periods between service intervals. This provides the user with both a reduction in the frequency of nuisance alarms and maintenance savings by extending the period before cleaning of the detector chamber is required.

The FCO731 has two integral tri-colour LEDs that provide 360° 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 manufacturer warranty.

Electrical Specifications - Standard Product (FCO731)

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

Electrical Specifications - Isolator Product (FCOI731)

Operating Voltage Range	15 to 28.5VDC
Isolation Current	15mA at 24VDC
Maximum Continuons Current	1A (Switch Closed)
Additional Loop Resistance	typ 80mohm @24V (max 170mohm @15V)

Environmental Specifications

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

Mechanical Information

Height	52mm installed in B501 base
Diameter	102mm installed in B501 base
Weight	97g (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	FCOT721 / FCOTI721	FCHF741 / FCHF1741	7251	2251EIS	
	FCOTI781 / FCOI781	FCHH761 / FCHH1761	DNRE	6500	
	FCHR751 / FCHRI751	2251CTLE	FTX-P1		
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

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