pyronics



PYR-FA-CHA-BD

REFLECTIVE SMOKE BEAM DETECTOR

The PYR-FA-CHA-BD is a conventional reflective beam type smoke detector with an internal microprocessor supporting automatic calibration through smoke-time analysis and ambient conditions compensation and adjustment to produce the best in market detection and false alarm identification results, the beam detector has a built-in LASER beam for easy alignment and installation.

KEY FEATURES

- Modern Design and Feel
- Self-Diagnostics to Identify Internal Faults
- 3 Selectable Sensitivity Levels
- Supports 1 or 4 Reflectors According to Required Coverage Distance
- Up to 100 Meter by 14 Meter Coverage
- Commissioning Mode for Easy Installation
- Multiple LEDs for Commissioning Mode, Alarm and Fault
- Pathway Obscuration Alarm
- 3 Year Warranty



SPECIFICATIONS

GENERAL

Technology Microprocessor Based

Sensing Method Photoelectric using Optical Pathway Reflection

Diagnostics Self-diagnostics Function

Ambient Compensation Automatic Analysis and Adjustment

Angle of Adjustment -6° to +6° Maximum Angular ± 0.5°

Misalignment

LEDs Triple LED for Commissioning, Fire, and Fault

Contacts Fire and Fault

PERFORMANCE

Coverage Shape Cone Beam

From 8 to 100 Meters Coverage Length Coverage Width Up to 14 Meters Sensitivity Level 1: 1.25dB Level 2: 1.87dB

Level 3: 3.01dB

Reflectors Up to 70 Meters: 1 Reflector

More than 70 Meters: 4 Reflectors

0.5 Meter from Ceiling Mounting 1.5 to 40 Meters Ceiling Height

EMI Protection Yes

ELECTRICAL

18 to 30 VDC **Operating Voltage** Standby Current 20 mA 30 mA **Alarm Current**

MECHANICAL

Material High Impact Durable Engineered Polymer

Dimensions 100 mm x 46 mm x 46 mm

(Length x Width x Depth)

Weight 130 gm (Without Reflectors)

ENVIRONMENTAL

Indoor Installation Only **Application**

IP30 Ingress Protection

-10 °C to +50 °C

Operating Temperature -15 °C to +55 °C Storage Temperature

0 to 95% (Relative Humidity) Humidity

REGULATORY

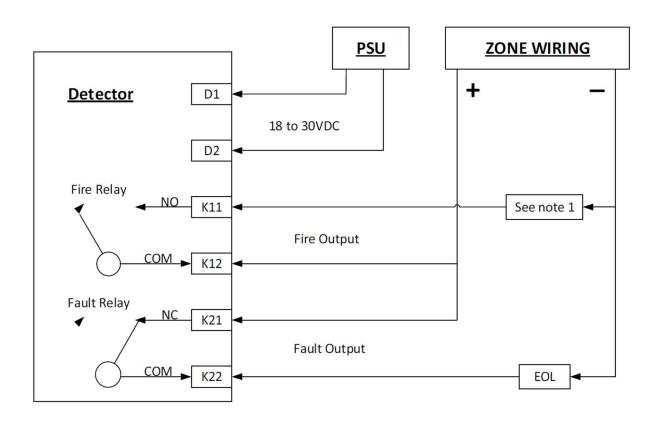
LPCB according to EN54-12 Certification

Declaration





WIRING



- * Fire resistor and its value is specified by the fire alarm control panel.
- ** EOL End of line resistor, and its value is specified by the fire alarm control panel.





ORDERING INFORMATION

Model	Description
PYR-FA-CHA-BD	CONVNETIONAL REFLECTIVE SMOKE BEAM DETECTOR
PYR-FA-CHA-ERP	EXPANSION REFLECTIVE PANELS FOR EXTENDED RANGE





Email United States info@pyronics.us www.Pyronics.us

5063 Commercial Circle, Concord, CA 94520 United States info@pyronics.us Pyronics warrants all its products against any and all manufacturing defects from the date of product delivery from the factory and/or distribution center. Pyronics's Challenger series has a warranty of 3 years

PYR-FA-CHA-BD - Datasheet V.001

