PYRONICS

■ **PYR-FA-CHA-SD**

PHOTOELECTRIC SMOKE DETECTOR

The PYR-FA-CHA-SD is a plug in point-type photoelectric smoke detector with an internal microprocessor supporting two-wire advanced communication and electronic coding. The detector communicates with the fire alarm control panel in real-time the smoke concentration data, the detector status as well as receives and executes control commands from the fire alarm control panel.

KEY FEATURES

- Modern Design and Feel
- Low-Profile
- Electronic Addressing via Handheld Programmer
- Temperature, Humidity and Dust Accumulation Drift Compensation
- Saves the Latest 100 Events on Device
- Polarity Insensitive for Ease of Installation and Maintenance
- Built-in Dual LED Indicator for Clear 360° Viewing
- Uniquely Advanced Optical Sensing Chamber Engineered to Sense Smoke Twice as Fast from a Wide Range of Combustion Sources
- 3 Year Warranty

CE   LPCB

SPECIFICATIONS

GENERAL

Technology	Microprocessor Based
Sensing Method	Photoelectric using Optical Sensing Chamber
Addressing	Software Addressing
Memory	100 Latest Events
Wiring	2 Wire (Polarity Insensitive)
Drift Compensation	5 Levels (Automatic)
LED	Dual LED for 360° Visibility
Base	Twist and Lock Base

PERFORMANCE

Detection Speed *	7 Seconds
Air Velocity	0 to 20 Meters / Second
Mounting	Ceiling or Side Wall
Spacing **	9.15 Meters (Center to Center)
Insect Screen	Yes
EMI Protection	Yes

ELECTRICAL

Operating Voltage	24 V (Pulse Modulation)
Standby Current	300 µA
Alarm Current	1.5 mA (Without remote LED Indicator)
	3.5 mA (With remote LED Indicator)

MECHANICAL

Material	High Impact Durable Engineered Polymer
Dimensions	φ 100 mm x 46 mm (Diameter x Height)
Weight	130 gm (Including Base)

ENVIRONMENTAL

Application	Indoor Installation Only
Operating Temperature	-10 °C to +55 °C
Storage Temperature	-20 °C to +60 °C
Humidity	0 to 95% (Relative Humidity)

REGULATORY

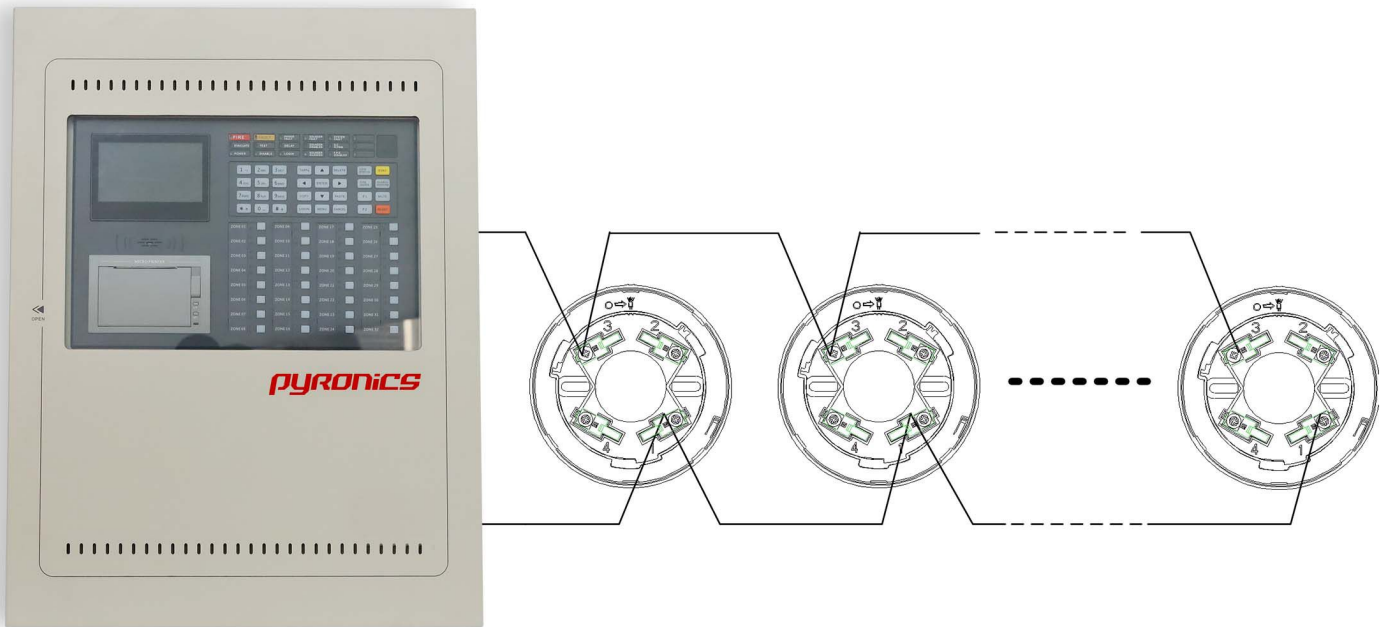|	
Certification	LPCB according to EN54-7
Declaration	CE

* Detection speed is calculated from the time of smoke entering the device till the alarm appears on the panel.

** Recommended spacing at height of 3.1 meters.

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WIRING

Point 1 is Control Panel / Next Device Terminal
Point 2 is the Remote LED Indicator −ve Terminal
Point 3 is Control Panel / Next Device Terminal
Point 4 is the Remote LED Indicator +ve Terminal

ORDERING INFORMATION

Model	Description
PYR-FA-CHA-SD	PHOTOELECTRIC SMOKE DETECTOR
PYR-FA-CHA-DB	STANDARD DETECTOR BASE

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-SD – Datasheet V.001

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