Cirrus CCD™
Early Warning Aspirating Fire Detector

Data Sheet

Features

• The only 'Cloud Chamber' based Air Sampling Fire Detector available

• Resistant to unwanted alarms from dust, humidity & temperature changes

• Programmable 'Pre-alarm' warning

• 3 x Programmable 'Fire' alarm warnings (Fire 1, Fire 2 & Fire 3)

• Widest sensitivity range

• Full Airflow Monitoring

• 7" full colour multi-function touch screen LCD display

• Live camera stream from up to 6 IP color cameras

• In-built IP interface

SECURITY & FIRE EXCELLENCE AWARDS 2015
Supported by IFSEC International and FIREX International
WINNER
Active Fire Innovation
Product of the Year

GOLD MEDAL 2016
GOLD MEDAL OF THE POZNAN INTERNATIONAL FAIR SECUREX FOR INNOVATION AND SUPERIOR TECHNOLOGY

GALERÍA DE NUEVOS PRODUCTOS SICUR
Dos novedades para la detección precoz de incendios: Cirrus HYBRID y Cirrus HYBRID SCAN de PROTEC FIRE DETECTION SPAIN SL
IFEMA Feria de Madrid

INTERNATIONAL FIRE INDIA 2017 EXHIBITION & CONFERENCE
INNOVATION 2017

Description

The 'sensitivity range' is the key feature that makes the Cirrus CCD Series Fire Detector a most versatile fire detection device.
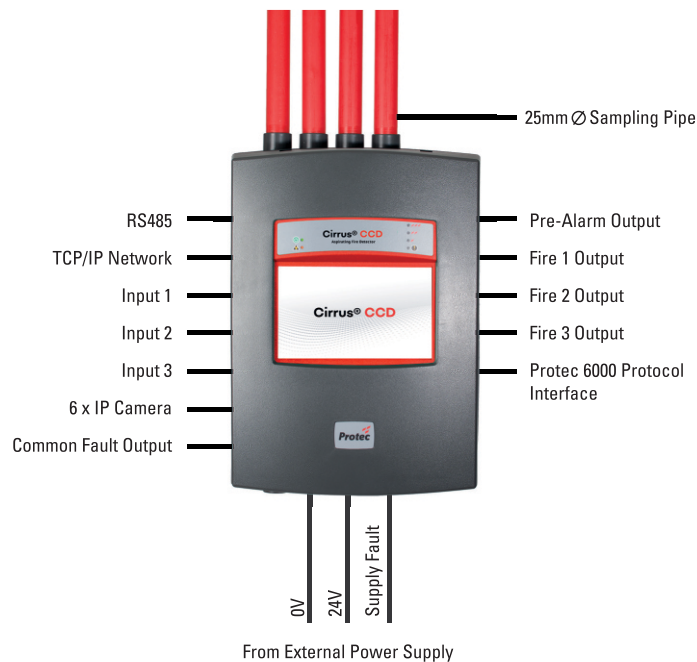
For over 30 years Cloud Chamber detectors have been known as the most sensitive fire detection device, able to detect at the true incipient stage of a developing fire.

The New Cirrus CCD Detectors have a vast sensitivity range capable of being even more sensitive than previous versions.

Cirrus CCD detectors can be installed in dusty, humid and high & low temperature applications. In these harsh environment applications design and installation consideration must be given to the complete installation to ensure the sampling pipes, sampling holes and detector remain operational.

Connections

RS485
TCP/IP Network
Input 1
Input 2
Input 3
6 x IP Camera
Common Fault Output

25mm ⌀ Sampling Pipe

Pre-Alarm Output
Fire 1 Output
Fire 2 Output
Fire 3 Output
Protec 6000 Protocol Interface

Cirrus® CCD
Aspirating Fire Detector
Cirrus® CCD
Protec

0V   24V   Supply Fault

From External Power Supply

Supply Voltage	20 - 29VDC	**Pipe ID**	19mm to 25mm (preferred OD 25mm)
Power Consumption	16.8 watts quiescent (24VDC 100% Fan Speed)	**Alarm Indications**	Pre-alarm, Fire 1, Fire 2, Fire 3
		Other Indications	Supply Healthy, General Fault
Current Consumption	500mA with blower @ 30% 700mA with blower @ 100%	**Sensitivity Range**	10,000 PCC to 10 million PCC
Operating Conditions		**Programmable Inputs**	3 monitored inputs that may be configured for Isolate, Reset, Silence, Day/Night, Battery Fault and Mains Fault
Detector Ambient	0˚C to 38˚C (32˚F to 100˚F)		
Tested to	0˚C to 55˚C (32˚F to 131˚F)		
Sampled Air	-20˚C to 60˚C (-4˚F to 140˚F)	**Programmable Output Relays**	5 Relays rated 1A @ 30VDC (Volt-free change over contacts)
Humidity	10 - 95%RH, non-condensing		
IP Rating	IP30	**Camera Inputs**	6 x Protec specified IP cameras
Cable Access	10 x 20mm knock outs	**Event Log / Data Retention**	24,000 events stored on FIFO basis (alarms, actions, faults and data points) (Approx 30 day historical graph data)
Cable Termination	Screw terminal blocks (0.2 - 2.5mm², 30 - 12AWG)		
Sampling Network	Four inlet ports with combined sampling pipe length up to 630m (2,066ft) all sampling pipe operational parameters to be verified using 'ProFlow' sampling pipe calculation program. Maximum transport time = 120 seconds.	**Variable Sensitivity Settings**	7 day programmable settings with 2 time zones per day. Day-time/Night-time setting
		Airflow Monitoring	'High Airflow' and 'Low Airflow' fault monitoring.
		Weight	3.5kg (7.7lbs)
		Dimensions (mm)	380(H) x 250(W) x 137(D)

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