

Cirrus HYBRID Detector



The Cirrus HYBRID aspirating detector combines Scatter and Cloud Chamber detection technologies into one unit. With the ability to cover up to four pipes, this dual technology approach provides excellent sensitivity for detecting fire and smoke while significantly reducing false alarms.

Standards / Approvals

- UL
- ULC
- FM

Technical Specification

	Cirrus HYBRID (Scanner)	Cirrus HYBRID (Non-Scanner)
Supply Voltage	20 - 28VDC	
Current Consumption @ 24VDC, 100% Fan 4 pipe	840mA quiescent 940mA alarm	685mA quiescent 785mA alarm
Operating Temperature Range	0°C to 37.8°C (32°F to 100°F)	
Application Sampled Air Temperature	-20°C to 60°C (-4°F to 140°F)	
Humidity	10 - 93%RH (no icing / non-condensing)	
IP Rating	IP30	
Cable access	10 x 20mm knock outs	
Cable Termination	Screw terminal blocks (0.2 - 2.5mm ² , 30 - 12AWG)	
Pipe Outer Diameter	25mm, push to fit tapered inlet	
Alarm Indications	Pre-alarm, Fire 1, Fire 2, Fire 3	
Other Indications	Supply Healthy, General Fault, 7inch LCD colour touch Screen Display	
Fault Contact	Rated at 30VDC 1A maximum [Normally closed]	
Programmable Output Contacts	5 contacts rated 30VDC 1A [Volt-free change over contacts with 28 programming options]	
Programmable Inputs	3 monitored inputs that may be configured for Isolate, Reset, Silence, Day/Night, Battery Fault and Mains Fault	
Camera	6 Protec specified IP cameras	
Event Log / Data Retention	24,000 events stored on FIFO basis (alarms, actions, faults and data points) (Approx 30-day historical graph data)	
Variable Sensitivity Settings	7-day programmable settings with 2 time zones per day. Daytime/Night-time setting	

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Technical Specifications Continued

	Cirrus HYBRID (Scanner)	Cirrus HYBRID (Non-Scanner)
Sensitivity Range	Incipient Detection Range: 0.002micron to 1.0micron in diameter. Concentrations of 10,000 particles per cc to 10 million particles per cc. Optical Detection Range: 0.01%obs/m to 20%obs/m 0.003%obs/ft to 6.6%obs/ft	
Threshold Settings Compliant Maximum	Carbon Monoxide Detection Range: 1 to 150 ppm Summation of 100 holes per detector @ 25 holes per pipe	Summation of 32 holes per detector @ 8 holes per pipe
	<small>*Application dependent. Consult product manual for more information</small>	
Sampling Pipe Network	Number of inlet ports: Up to four Pipe Network Design Tool: ProFlow Maximum pipe length: Specific to individual design. To be compliant to local design codes and verified by ProFlow.	
Airflow Monitoring	'High Airflow' and 'Low Airflow' fault monitoring	
Weight	3.5kg (7.7lbs)	
Dimensions (mm)	380(H) x 250(W) x 137(D)	

Product Codes

Cirrus HYBRID (Scanner)	HYBRID Non-display 2 Pipe Scanner	61-986-H4SND-FMUL2
HYBRID 2 Pipe Scanner	61-986-H4S-FMUL2	
HYBRID 3 Pipe Scanner	61-986-H4S-FMUL3	
HYBRID 4 Pipe Scanner	61-986-H4S-FMUL4	

HYBRID Non-display 3 Pipe Scanner	61-986-H4SND-FMUL3
HYBRID Non-display 4 Pipe Scanner	61-986-H4SND-FMUL4
HYBRID Non-display 2 Pipe Scanner	61-986-H4SND-FMUL2

Product Codes

Cirrus HYBRID (Non-Scanner)	HYBRID Non-display 1 Pipe	61-986-H4ND-FMUL1
HYBRID 1 Pipe	61-986-H4-FMUL1	
HYBRID 2 Pipe	61-986-H4-FMUL2	
HYBRID 3 Pipe	61-986-H4-FMUL3	
HYBRID 4 Pipe	61-986-H4-FMUL4	

HYBRID Non-display 2 Pipe	61-986-H4ND-FMUL2
HYBRID Non-display 3 Pipe	61-986-H4ND-FMUL3
HYBRID Non-display 4 Pipe	61-986-H4ND-FMUL4

Note: Non-scanning detectors (standard detectors) - can have up to four sampling pipes which share a common Cloud Chamber to provide fire particle detection. Each pipe inlet is provided with an individual Scatter Chamber Detector to provide optical smoke particle detection. This does not provide individual pipe identification of the Combined Fire & Smoke signals.

Scanning detectors - can have up to four sampling pipes. The air entering each pipe inlet is directed through the Cloud Chamber to provide fire particle detection and an individual Scatter Chamber Detector to provide optical smoke particle detection. This provides individual pipe identification of the Combined Fire & Smoke signals.