

Sensis® Indigo CSD-H Series Cabinet Smoke Detector

[EN] 4010-100 – Indigo CSD-H10

[EN] 4011-100 – Indigo CSD-H11
(with CO Sensor)



Overview

The Sensis Indigo CSD-H is an advanced early warning aspirating smoke detector designed specifically for small rooms below 100m² and cabinet fire detection. With its compact design, Indigo CSD can be installed inside individual cabinets to perform precise air sampling smoke detection. Its high sensitivity – reaching Fire 1 levels at 0.8% obscuration per meter – enables extremely early warning of smoke presence and helps accurately identify which cabinet is affected. Indigo CSD offers a reliable and efficient solution for cabinet fire detection.

The Sensis Indigo CSD-H features a single 8 mm sampling inlet, which can also be easily connected to standard 25 mm aspirating pipe using compatible fittings for flexible installation, a single aspirator with flow sensor and a high-sensitive smoke detector. The sensitivity level can be selected from pre-set configuration, up to 0.8% obs/m. The Sensis Indigo CSD-H also comes equipped with a mini 3-in-1 numerical display that provides real-time smoke and air flow values. The display also allows users to perform additional input functions such as reset, isolate, silence and test.

APPLICATIONS

Data Centres

Electrical Cabinets

High-risk Equipment

Industrial Control Panels

Small Rooms Below 100m²

Features

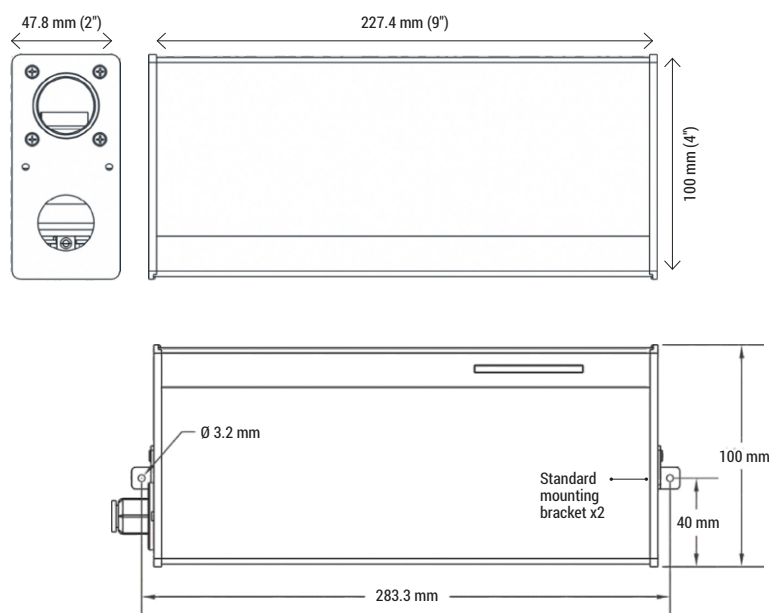
- **Very early warning smoke detection** – Alarm sensitive range of 0.02~25% obs/m, covering a maximum area of up to 100m²
- **Mini 3-in-1 display** – Mini 3-in-1 display provides real-time smoke level and air flow values with additional input functions (Reset, Isolate, Silence and Test)
- **Built-in temperature and humidity sensors** – Provides additional environmental monitoring and enhanced detection accuracy in cabinets and small spaces
- **Four alarm levels** – Alert, Action, Fire 1, Fire 2
- **Remote Display Unit** – The Indigo CSD-H can be connected to a Remote Display Unit (RDU), ideal for challenging environments where the CSD-H units are not easily accessible
- **Smart Smoke Level (SSL)** – Operates 24/7 to continuously monitor the background environmental value and establish a reference point for smoke concentration and alarm threshold to improve reliability and reduce false alarms
- **Supports Modbus RTU open protocol** – connect up to 250 devices on a network
- **Additional features** – 8 x preset Fire 1 levels, 2 x event thresholds for temperature, humidity and CO (CSD-H11 only), 2 x relay outputs, and RS485 connectivity

Technical Specifications

Feature Description	Specification
PERFORMANCE	
Smoke Detection Principle	Light scattering mass detection
Smoke Detection Range	0.02~25%/m
CO Detection Range	0~1,000 ppm (H11 model only)
Temp. Detection Range	0~100°C
Humidity Detection Range	0~100% RH
Area Coverage	100 m ²
Pipe/Tube Length	30 m
Sampling holes	Class A = 2 holes Class B = 4 holes Class C = 4 holes
Alarm Levels & Time Delay:	
Alert	(0~60 seconds)
Action	(0~60 seconds)
Fire-1	(0~60 seconds)
Fire-2	(0~60 seconds)
Environment Smoke Learning	• 5 background average mode • 24 hours, 365 days non-stop smoke background level learning
Flow Monitoring	• Pipe flow normalize to 100% • Flow high and flow low fault
Aspirator speed	10 speed adjustable

Feature Description	Specification
ELECTRICAL SPECIFICATION	
Relay Output	2 relays (configurable)
Rating	2 A @ 30 Vdc
General Purpose Inputs	1 x GPIs (configurable)
Power	10~28 Vdc 170 mA
OPERATING CONDITIONS	
Device Operating Temp.	0° to 40°C (32° to 104°F)
Sampling Air Temp.	-20° to 60°C (-4° to 140°F)
Humidity	10~95% RH non-condensing
MECHANICAL SPECIFICATION	
Dimensions	100(h) x 227.4(w) x 47.8(d) mm 4"(h) x 9"(w) x 1 ¾"(d)
IP Rating	IP41
Weight	0.725 kg (1 ½ lb)
APPROVALS	
EN54-20 approved.	

DIMENSIONS & MOUNTING



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