ESPintelligent
ACD-EN

Addressable Multi-Sensor with CO Detection

Features

▸ Low profile
▸ Heat ,Optical and CO sensing elements
▸ CO Alarm (COHb) facility
▸ 10 year CO sensor life
▸ Programmable fire threshold level
▸ RI & LED controllable separately if required*[1]
▸ 2 colour LED (Polling: Green, Fire: RED)
▸ 24 EN approved modes of operation.

Description

An addressable loop-powered multi-sensor, with smoke, heat and CO sensing elements. The unit offers 24 different modes of operation*[1] and seamlessly matches the other sensors in the ESP Range. The CO sensing element can be used to detect smoke as well as life-threatening CO levels (acting as a CO alarm). Note: Control Panel compatibility required

Specification

Ordering Code	ACD-EN - Ivory ACD-EN(WHT) - White	
Operating Voltage	17 – 41 VDC	
Loop Pulse Voltage	7 - 9 VDC	
Current Consumption	Quiescent	410 µA (typ)*[2]
	Loop Current (when polled)	22 mA ± 20%*[2]
	Remote Indicator	8.0 mA ± 20%*[2]
	LED Current	9.1 mA*[2]
	Surge Current	40 mA (for 50 ms)
Operating Temperature Range*[3]	- 10 °C to + 50 °C	
Relative Humidity	‹95% RH (at 40 °C) ‹80% RH (at 50 °C)	
Storage Temperature Range	- 20 °C to + 50 °C	
Colour / Case Material	Ivory or White / Polycarbonate (Outer Cover) / PC/PS-GF (terminal plate)	
Weight without Base (g)	105	
Diameter (mm) / Height (mm)	ø 100 / 45 (without base)	
Compatible Bases	YBN-R/3, YBO-R/SCI, YBN-R/3(SCI), YBO-BS, YBO-BSB, YBO-BSB2	
Approvals	EN 54-5:2000 + A1:2002 / EN 54-7:2000 +A1:2002 + A2:2006 / EN 54-26: 2015 EN 54-29: 2015 / EN 54-30: 2015 / EN 54-31: 2015 / CEA 4021:2003	

Note: This sensor does not support sleep mode.

*[1] Panel compatibility dependant.
*[2] Currents are cumulative.
*[3] Operating temperature complies with standard sensitivity.