

ZA830CO Addressable Multisensor with Carbon Monoxide Detection

Description	Addressable Smoke, heat and Carbon Monoxide Detector
	The ZA830CO is designed for areas requiring Multisensor detection a including CO. The sensor, when configured, can also be used to control extraction fans based on CO levels. Pre-Alarm and Alarm levels for the CO sensor element can be set using the dipswiches at the rear of the device (see table below for dipswich settings). Fixed Heat and smoke trigger levels for the device are adjustable at the panel. The heat elements detect static and rate of rise as per EN54-5 Using the GEKKO or OCTO+ panel range, The Pre-Alarm function can be used to trigger extract fans with adjustable time delay for auto reset for use in parking garages etc.
Specification	Detector is fitted with a compliant CO sensor (EN 50291), Optical sensor (EN54-7) and Heat sensor (EN54-5 A1)
Compatibility	ZEOS protocol addressable systems
Mounting	Plugs into ZASBASE surface base
Area coverage	As per EN50291, EN54-7 and EN54-5
Wiring	2 core loop
Indication	Dual LED's on either side of the detector. Alarm (continuous red), Healthy (flashing green)

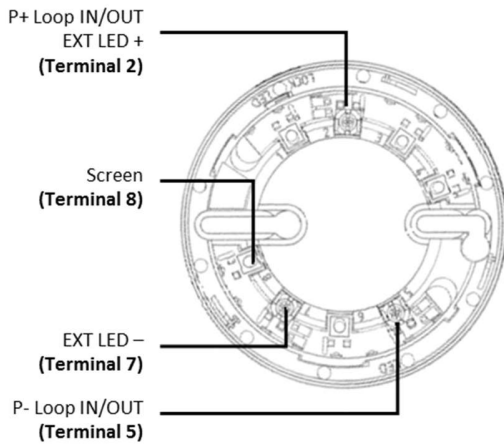
NOTICE:

- **Once exposed to excessive levels of Carbon Monoxide (CO), the ZA860CO may require up to 2 hours to return to normal operation if saturated.**
- **The Pre-Alarm condition is triggered by an average CO reading taken over a rolling 1 minute period.**

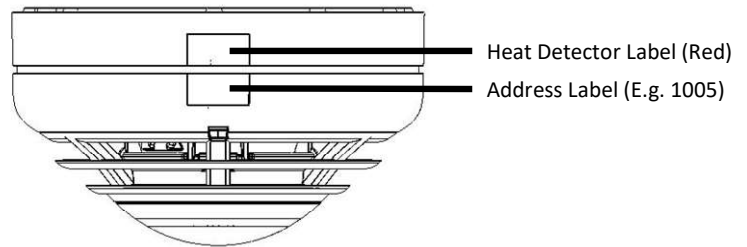
Parameters	
Supply Voltage	Loop powered: 20V to 30V DC
Current - Quiescent	400uA
Current – Device in alarm	2mA
Operating temperature	-10 to 50 degrees Celsius
Max Humidity	95% RH non condensing
Weight	115g without base; 155g with base
Dimensions	107mm Diameter; 54mm Height
Color	White
Material	ABS
Base Connections	
Pin	Connection
2	P+ Loop IN/OUT & EXT LED (+)
5	P- Loop IN/OUT
7	EXT LED (-)
8	Loop cable screen terminal



1. Wiring Diagram

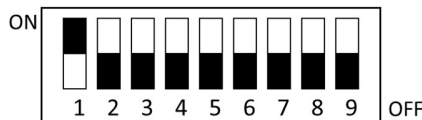


2. Mounting- and Label Diagram



Switches 1-7 used to configure the device address.
Switches 8 See Table
Switches 9 See Table

3 D.I.L Switch Configuration



Address Switches Binary Weights

1 ON = 1	4 ON = 8	7 ON = 64
2 ON = 2	5 ON = 16	
3 ON = 4	6 ON = 32	

Switch 8	Switch 9	Configuration	Device Type
ON	ON	Smoke ON / CO pre alarm at 30 ppm and alarm at 50 ppm, RR heat, 58 deg. static	Multi sensor
OFF	OFF	Smoke OFF / CO pre alarm at 30 ppm and alarm at 50 ppm, RR heat, 58 deg. static	Multi sensor
ON	OFF	Smoke OFF / CO pre alarm at 50 ppm and alarm at 100 ppm, RR heat, 58 deg. static	Multi sensor
OFF	ON	Smoke OFF / CO pre alarm at 50 ppm and alarm at 100 ppm, RR heat OFF, static heat OFF	CO sensor

4. Address labels

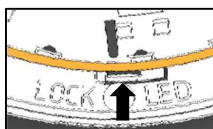
A set of Address labels are supplied with each addressable panel.

Fit the Address label on the recessed area of the detector. See the Mounting- and Label Diagram for details. The Address label displays the loop number and device address on the loop. The first digit on the label display the loop number followed by the 3 digit device address. E.g. 1005 is Loop 1 Device number 005.

5. Base Lock

To lock detector into base, remove the lock clip on the base using a small screwdriver. To unlock the device from its base, push in the release pin on the detector and turn the detector anticlockwise. The release pin is located next to the detector LED. See diagrams below for details.

Lock Clip



Release Pin

