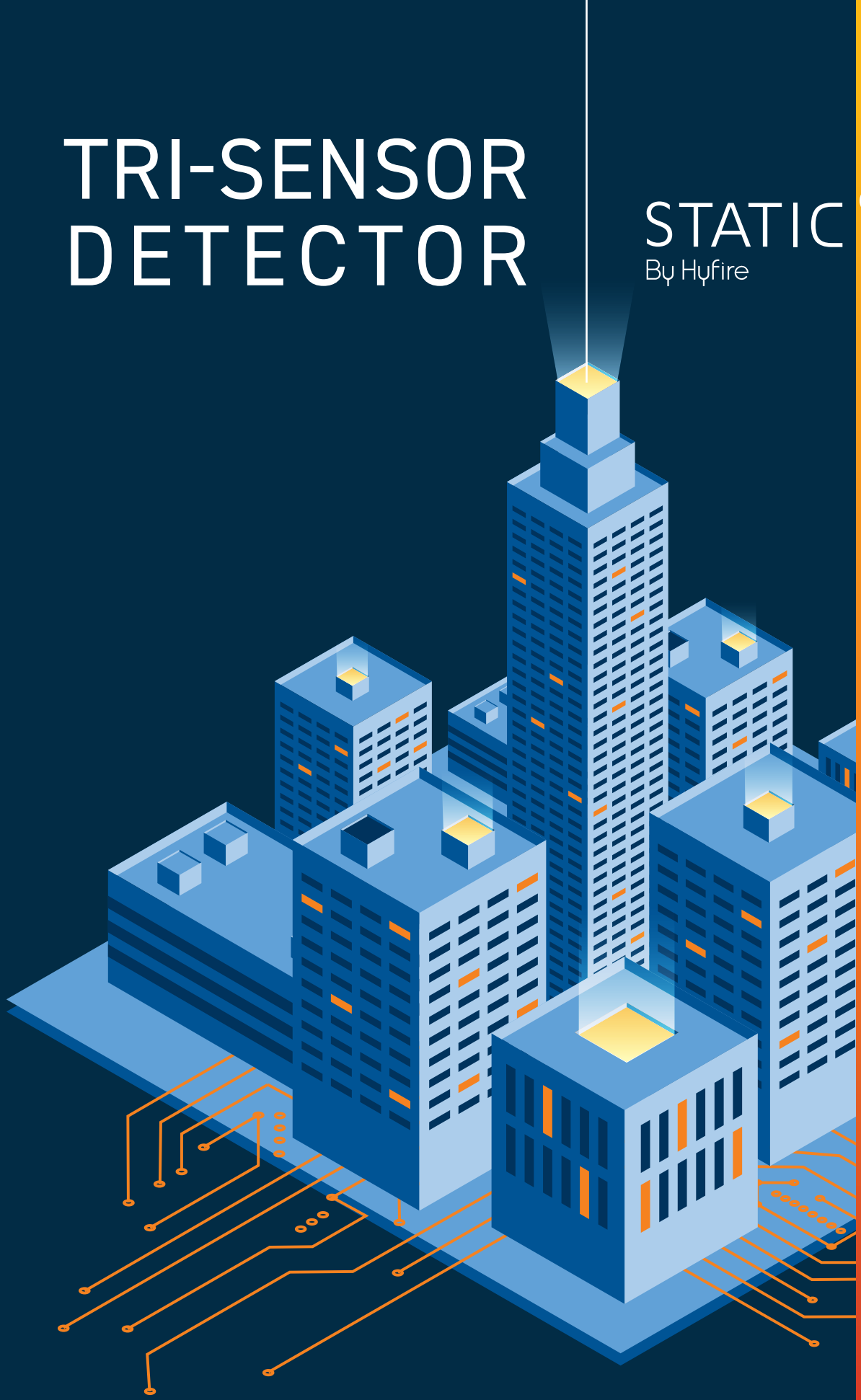
TRI-SENSOR DETECTOR

STATIC
By Hyfire



Hyfire

TRI-SENSOR DETECTOR

Our tri-sensor detector is one of the very few multi criteria detectors available on the market and represents a unique product within wireless fire solutions.

The device offers the latest fire detection technology, combining CO, dual-path optical smoke and heat sensing technologies for unrivalled performance.

Advanced algorithms ensure early detection and notification of fire situations and the highest levels of unwanted alarm rejection.

The Hyfire product is a CO enhanced fire detector, not a life safety CO detector (build up of carbon monoxide).

1. THERMISTOR
2. DUAL ANGLE OPTICAL CHAMBER DESIGN
3. SOLID ELECTROLITE CARBON MONOXIDE CELL WITH SELF TEST MONITORING FUNCTION

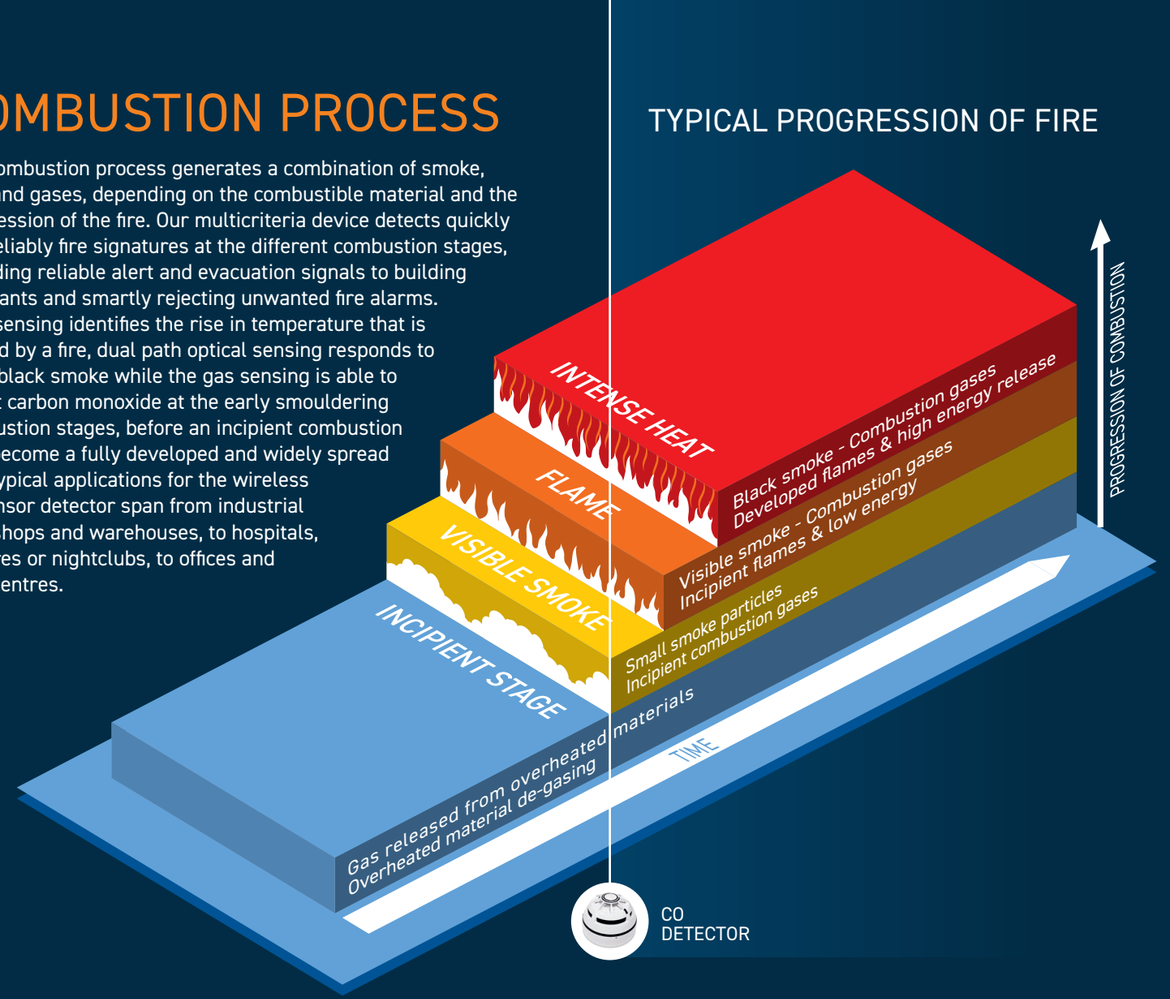
KEY FEATURES

- HIGH SENSITIVITY MODES AND EARLY FIRE DETECTION IN ANY ENVIRONMENT
- INNOVATIVE ALGORITHMS ENSURE PROMPT DETECTION OF MULTIPLE INPUTS, PREVENTING UNWANTED ALARMS
- EN54-25 AND EN54-31 (MT AND NT PROFILES) COMPLIANT
- COMPATIBLE WITH HYFIRE STATIC RANGE
- EASY TO INSTALL AND CONFIGURE

COMBUSTION PROCESS

Any combustion process generates a combination of smoke, heat and gases, depending on the combustible material and the progression of the fire. Our multicriteria device detects quickly and reliably fire signatures at the different combustion stages, providing reliable alert and evacuation signals to building occupants and smartly rejecting unwanted fire alarms. Heat sensing identifies the rise in temperature that is caused by a fire, dual path optical sensing responds to grey/black smoke while the gas sensing is able to detect carbon monoxide at the early smouldering combustion stages, before an incipient combustion may become a fully developed and widely spread fire. Typical applications for the wireless tri-sensor detector span from industrial workshops and warehouses, to hospitals, theatres or nightclubs, to offices and data centres.

TYPICAL PROGRESSION OF FIRE



DETECTOR PROFILE SETTINGS

CONFIGURABLE SOLUTION FOR OPTIMUM PERFORMANCE

Our tri-sensor detector is fully compliant with EN54-31 (point detectors using a combination of smoke, carbon monoxide and optionally heat sensors), which considers two possible operative modes, NT and MT. The device can be programmed for one of the two categories to respond to specific environment requirements.

When the detector is programmed as category NT, it allows the alarm condition if any of the stimuli-processed through the multi criteria algorithms exceeds the selected time and amplitude thresholds; when it's programmed as category MT the alarm condition requires at least two of the sensed environment stimuli exceeding the above thresholds.

Our device offers additional environmental profiles and further customisation options for each of the two modes, adapting the detectors to different environments, thus offering the most immune and promptest fire detection possible. See table for further details.

	PROFILE	ENVIRONMENT CLASS	SMOKE SENSITIVITY	THERMAL SENSITIVITY	DESCRIPTION
NT	L1	Harsh	Low	Fixed	Boiler room/Parking area/Warehouse
	L2			High	Nightclubs/Theatre stage
	L3			A1R	Kitchen/Cafeteria/Bathroom
	N1	Normal	Normal	Fixed	False ceiling/Storage room
	N2			High	Lobby/Stairway/Corridor
	N3			A1R	Office
	H1	Clean	High	Fixed	Bedroom/Dormitory
	H2			High	Nursery/Care Home
	H3			A1R	Hospital's operating theatre/intensive care/maternity ward
MT	L0	Harsh	Low	None	Industrial Workshop
	L1			Fixed	Boiler room/Parking area/Warehouse
	L2			High	Nightclubs/Theatre stage
	L3			A1R	Kitchen/Cafeteria/Bathroom
	N0	Normal	Normal	None	Prison
	N1			Fixed	False ceiling/Storage room
	N2			High	Lobby/Stairway/Corridor
	N3			A1R	Office
	H0	Clean	High	None	Meeting room/Data Centre
	H1			Fixed	Bedroom/Dormitory
	H2			High	Nursery/Care Home
	H3			A1R	Hospital's operating theatre/intensive care/maternity ward

Hyfire

HYFIRE WIRELESS FIRE
SOLUTIONS LTD

Unit B12a
Holly Farm Business Park
Honiley, Warwickshire
CV8 1NP

T: 01926 485282
F: 01926 485550

E: info@hyfirewireless.co.uk
W: www.hyfirewireless.com