



WES3 Wireless Fire and Evacuation System

Technical Design & Installation Guidance

Disclaimer

This document is provided for guidance purposes only and outlines general technical considerations for the design and installation of temporary fire detection and alarm systems in dynamic environments, including construction and marine applications. It does not replace or supersede any applicable legislation, standards, or codes of practice within the relevant jurisdiction.

The system design, installation, and level of protection must be determined based on a site- or vessel-specific fire risk assessment, taking into account the nature of the works, environmental conditions, and applicable regulatory requirements. Responsibility for compliance with all relevant legal and regulatory obligations remains with the duty holder, contractor, or operator.





1. WES3 Manual Call Points

Positioning

- Installed along escape routes and access/egress points
- Located at:
 - All final exits
 - Stairwells and vertical access points
 - Transition points between compartments / work zones

Spacing & Travel Distance

- Maximum travel distance to nearest MCP: ≤100 ft (30m)
- Maximum distance between MCPs: ≤200 ft (60m)

Mounting Height

- Approx. 1.4 m (4 ft 7 in) above finished floor level

General Requirements

- Clearly visible and unobstructed
- Accessible during evacuation
- Consistent positioning throughout site or vessel



2. WES Connect Control Unit

Location

- Positioned in:
 - Low fire risk area
 - Central or commonly accessible location (e.g. site office, control room)

Requirements

- Accessible to responsible personnel
- Protected from environmental damage
- May be deployed as fixed or mobile unit depending on operational needs





3. WES3 Smoke Sensors

Application

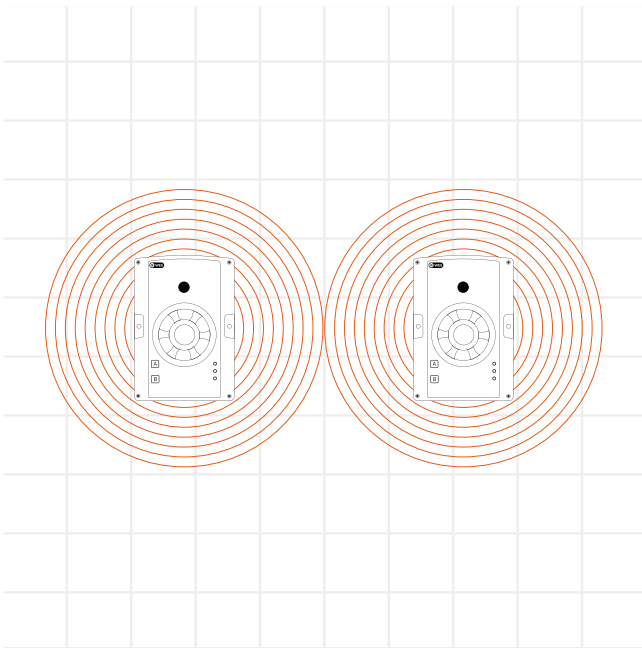
- Enclosed or compartmentalized spaces
- Internal areas with defined ceilings and boundaries

Coverage

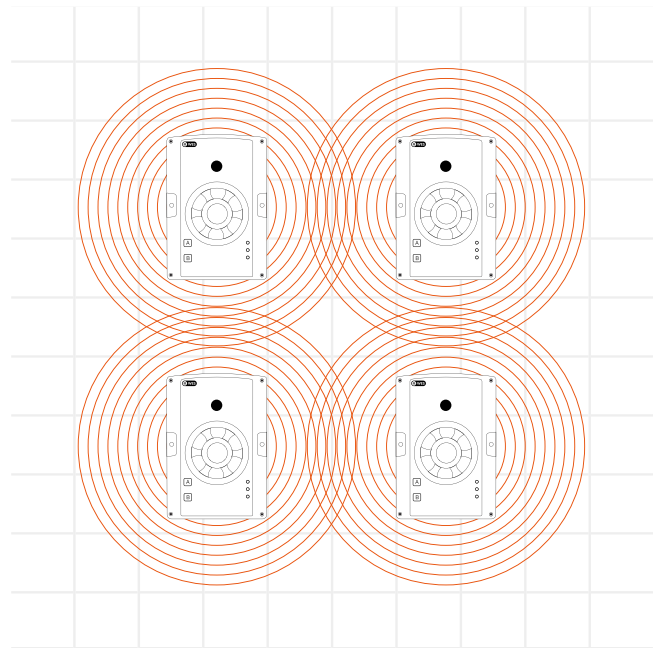
- Coverage radius: ~25 ft (7.5 m)
- Maximum spacing between detectors: ~50 ft (15 m)

Positioning

- Ceiling-mounted
- Alternatively mounted on temporary supports (e.g. poles, trolleys)
- Positioned to avoid:
 - Obstructions
 - Dead air spaces
 - Excessive ventilation



Coverage Radius: ~25 ft (7.5 m) with a slight overlap



Coverage Radius: ~25 ft (7.5 m) with a slight overlap





4. WES3 Heat Sensors

Application

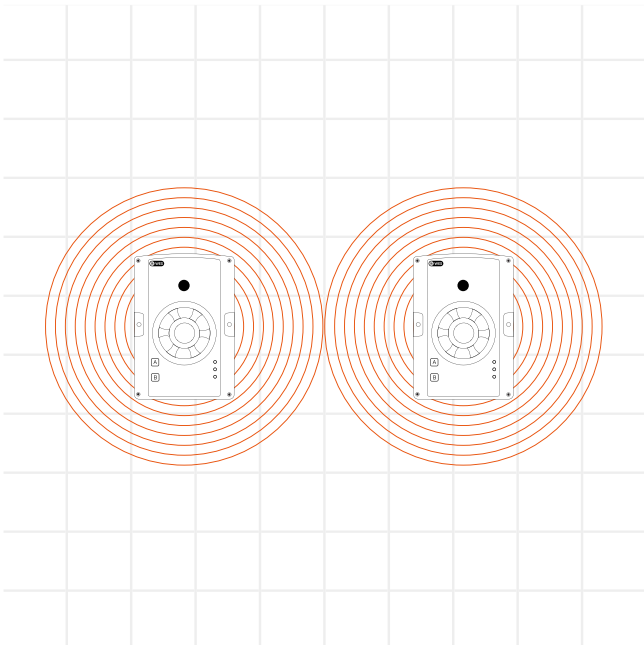
- High dust environments
- Areas with fumes or steam
- Kitchens, plant rooms, machinery spaces

Coverage

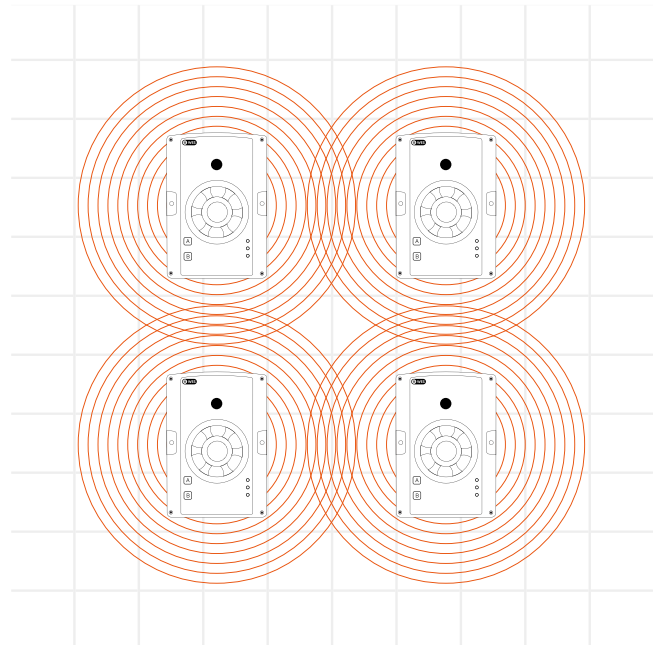
- Coverage radius: ~17.5 ft (5.3 m)
- Maximum spacing between detectors: ~35 ft (10.5 m)

Positioning

- Ceiling-mounting
- Mounted on temporary supports where required



Coverage Radius: ~17.5 ft (5.3 m) with a slight overlap



Coverage Radius: ~17.5 ft (5.3 m) with a slight overlap





5. WES3 Interface Units

Installation Requirements

- Installed by competent / qualified personnel
- Operated within system voltage limits (e.g. $\leq 24V$, $\leq 2A$)

