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fire systems limited

SECURITY & FIRE EXCELLENCE AWARDS
2022 WINNER
Hardware Product Innovation of the Year

Sygno-fi Conventional Expander Module (SYG-CEM)

The SYG-CEM Sygno-fi Conventional Expander Module has been designed to allow the integration of wireless detection and alarm type field devices onto almost any type of system.

Regardless of whether the system is intelligent or conventional, the unit can simply be connected to a conventional zone and sounder circuit, directly or via loop modules. The wireless field devices connect to the system as non-addressable devices, but still utilise the same technology as Sygno-fi intelligent wireless devices. They are fully monitored for alarm and fault, ensuring the highest levels of life safety and reliability are maintained.

All wireless communications rely on a channel pair for spurious RF noise rejections and maximum link reliability.
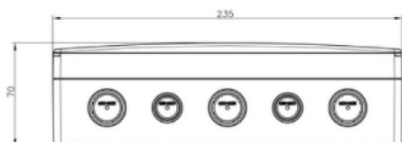
TECHNICAL DATA

Operating frequency range	868 – 870 MHz
Power supply range	9Vdc – 30Vdc
Typical current consumption	40mA (@12Vdc)
Max radiated power	14dBm (25mW)
Max no. of devices	32
Operating Temperature	-10°C to +55°C
Max humidity (non condensing)	95% RH
IP Rating	65
Weight	700g
Dimensions	235mm x 160mm x 70mm

KEY FEATURES

- Bi-directional wireless communication
- External PSU powered
- Internal antennae design protects from environmental conditions, vandalism, accidental damage or misuse
- Low current consumption
- Devices are fully monitored for alarm and fault
- Compatible with up to 15 expander modules (8 hops)
- Compatible with wide range of conventional and addressable systems
- Site programmable via internal keypad, or via wireless or wired PC connection
- 8 pairs of network channels
- Dual channel redundancy
- Long communication range ($\cong$ 1 km in open air)
- Easy scan & link programming option
- 3rd party approval to EN54-18 and EN54-25
- 5 year product warranty

TECHNICAL INFORMATION

APPROVALS

- BS EN54-18: Input/Output Devices
- BS EN54-25: Components using radio links and system requirements