Addressable control panels

xDetect - product datasheet

Cooper

An Eaton secure-by-design solution
Complies with rigorous cybersecurity, process, requirements and testing standards

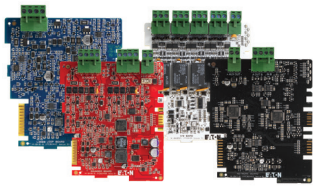
Small enclosures



Large enclosures

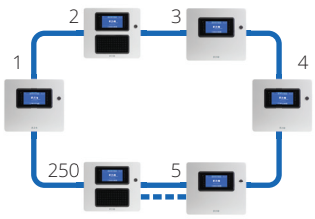


Modular cards



- Colour coded cards
- Easy identification in the field
- Local status LEDs for each card
- Simple maintenance

Networked systems



A fault tolerant loop network means no loss of communication during a single fault, reducing cable costs across a maximum of 250 panels per network.

xDetect is a 1 to 4 loop addressable fire alarm control panel featuring an instantly familiar, tablet-like user interface. Its adaptive touchscreen automatically changes colour in line with the fire system's status. The panel protects data and assets from hackers, ensuring secure communications, and has been designed with industry-leading levels of cybersecurity, making it future-ready for BMS and IoT connectivity.

Its end-to-end design concept minimises time on-site, simplifying selection, installation, commissioning and service thanks to features such as error-proof colour coding and modular architecture. Installation and maintenance times and costs are reduced further by xDetect's ring design. This makes the use of a redundant network unnecessary, significantly reducing cabling and associated costs.

A scalable solution, xDetect is easy to expand and adapt in line with building owners' changing needs thanks to its modular system architecture. It can be upgraded effortlessly in line with changing standards and regulations through an intuitive, colour-coded scalable loop configuration with easy-to-swap system cards.

Key features

- Flexible modular card based system with redundancy
- Fault tolerant ring network design with built in isolators
- Cybersecure – An Eaton secure-by-design solution
- 600mA Maximum current per loop
- Multi-language selection capability
- Powerful matrix based cause & effect programming with xDetectWorks programming software
- "Tablet like" 7" colour touchscreen
- Instantly familiar interface with high contrast colour coding that is simple to operate and learn
- Available in two sizes: Small (7 card frame) and large (12 card frame) enclosure options
- EN54-2, EN54-4 certified
- LPCB approved

Order codes

Control panels

Enclosure	Description	Model reference	Order code
Small	xDetect Addressable CIE Panel 2 Loop Enclosure	CXD01020	CXD01020
Large	xDetect Addressable CIE Panel 4 Loop Enclosure	CXD01040	CXD01040

Cards & backplane options/spares

Description	Model reference	Order code
xDetect Loop Card 1L Protocol 800	EFXD05001	EFXD05001
xDetect Smoke Management Control Loop	EFXD05002	EFXD05002
xDetect Sounder Circuit Card 2 Outputs	EFXD05020	EFXD05020
xDetect Programmable I/O card	EFXD05030	EFXD05030
xDetect Network Card	EFXD05040	EFXD05040
xDetect CIE Int. Power Supply 150W	EFXD05051	EFXD05051
xDetect CIE Int. Dual PSE Backplane	EFXD05052	EFXD05052
xDetect CIE Int. Single PSE Backplane	EFXD05053	EFXD05053
xDetect Zonal Indicator Board – 128 Zonal Indicator	EFXD05060	EFXD05060
xDetect CIE Backplane Large Enclosure	EFXD05081	EFXD05081
xDetect CIE Backplane Small Enclosure	EFXD05082	EFXD05082

Panel door options

Description	Model reference	Order code
xDetect CIE Door Small HMI only	EFXD05091	EFXD05091
xDetect CIE Door Large HMI only	EFXD05092	EFXD05092
xDetect CIE Door Small 128 Zonal Indicator	EFXD05093	EFXD05093
xDetect CIE Door Large 128 Zonal Indicator	EFXD05094	EFXD05094
xDetect CIE Door Large 256 Zonal Indicator	EFXD05095	EFXD05095

Note: In the first release (MR1.0), the system will support a maximum network size of 20 panels.
For MR1.1, the system will support a maximum network size of 126 panels.
Please contact Eaton technical support for further guidance.

Addressable control panels

xDetect – Technical specifications





	CXD01020	CXD01040
Brand	Eaton | Cooper	Eaton | Cooper
Enclosure	Small	Large
HMI	7" Colour touchscreen	7" Colour touch screen
Zonal Indicator	None	None
Approval	EN54-2, EN54-4	EN54-2, EN54-4
Accreditation	LPCB 378q/01	LPCB 378q/02
Max. Zones (per CIE)	256	256
Number of Loops	1-2	1-4
Max. Length of Loops	2km	2km
Max. Load per Loop (Inputs & Outputs)	600mA	600mA
Max. No. of Addressable Points per Loop	200	200
Max. No. of Addressable Points per C.I.E	400	800
Max. No. of Alarming Devices per Loop Card (based upon beacon with 4.1mA current)	Up to 131	Up to 131
Max. No. of Alarming Devices per Sounder Card (based upon lowest operating current of RoLP)	Up to 106	Up to 106
Max. No. of Fire Alarm Devices per C.I.E	Up to 262 (requires 1 additional Loop card from standard)	Up to 262 (with 1 PSU - requires 1 additional Loop card from standard) Up to 524 (with 2 PSUs - requires 1 additional PSU & 3 loop cards from standard)
Pre-Fitted Cards	1x Gateway 1x Loop 1L Protocol 800	1x Gateway 1x Loop 1L Protocol 800
System Operating Voltage	20.4-28V (VBUS)	20.4-28V (VBUS)
Mains Input Supply	230Vac +10%, -15% 50/60Hz	230Vac +10%, -15% 50/60Hz
Standby Duration	Up to 24Hrs (Dependant on loop loading and battery configuration)	Up to 24Hrs (Dependant on loop loading and battery configuration)
Maximum Battery	2 x 12V dc (12Ah) (Batteries not included)	4 x 12V dc (12Ah) (Batteries not included)
Weight (without batteries)	8.4kg	11kg
Ingress Protection	IP30	IP30
Dimensions H x W x D - Product (mm)	374 x 426 x 148	527 x 433 x 148
Dimensions H x W x D - Packaged (mm)	630 x 500 x 310	630 x 500 x 310
Construction	1.5mm Mild Steel	1.5mm Mild Steel
Cable Entry	23x 20mm diameter at top 2x 20mm diameter on each side 2x 20mm diameter on bottom 1x Rectangular knockout at rear - W 284 X H 35 mm	23 x 20mm diameter at top 4 x 20mm diameter on each side 2 x 20mm diameter on bottom 1x Rectangular knockout at rear - W 284 X H 35 mm
Operating Temperature	-5C to +50°C	-5C to +50°C
Humidity (non condensing)	95%	95%
Compatible with	Visit **www.Eaton.com/xDetectCompatibleDevices** to see the latest list of compatible peripherals	

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