



Protoc

D5E69229

CE 0905 15

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6000P/OPHTCO/SVAD
Optical Heat CO Sensor
With Sounder VAD
IP21C Type A 18-27Vdc 320mW 13.5mA
EN54-5:2000 Class A2, EN54-7:2000
EN54-3:2001, EN54-17:2005
MADE IN UK: 27/04/2021 247918

EN54-23:2010 MAX C-3-7.5
PFD-CPR-0091
Refer to DEL2130
RDL0253/3
NELSON, UK - BB9 6RT

Independently tested
Intertek

6000PLUS Protocol

The digital language of intelligence,
accessibility, and simplicity

Open or Closed Protocols?

When choosing a fire alarm system, clients must decide between an Open or Closed Protocol, which significantly influences the options for service and maintenance.

Open Protocol

In fire alarm systems, Open Protocol refers to the system's accessibility; the software and access codes are publicly available, allowing any competent fire alarm engineer to service and maintain the system.

This flexibility offers clients freedom but can also introduce security vulnerabilities due to software and engineers codes being easily accessible online. Therefore, it is crucial to ensure that a competent, well-trained company is responsible for maintaining the system to guarantee its proper functioning, safety, and security.

Closed Protocol

On the other hand, Closed Protocol systems provide enhanced security. Access to these systems are restricted to the designated fire alarm companies who control all software and commissioning capabilities. This ensures the system is consistently updated and fully operational, minimising risks for the building owner. Closed Protocol systems are ideal for high-security environments such as airports, prisons, and hospitals, where false alarms or unauthorised evacuations could have severe consequences.

With decades of experience in the fire alarm industry, Protec is committed to collaborating closely with clients to deliver bespoke, high-quality fire alarm systems tailored to specific requirements.



Did you know?

Protec is not just a Closed Protocol manufacturer

Protocol Explained

The 6000PLUS Protocol is open to anyone, allowing any competent fire alarm company to service and maintain a Protec 6000PLUS system.



Myth

“Protec isn’t Open Protocol”

“You can mix detector manufacturers on an Open Protocol system.”

“Open Protocol system can only be installed by the manufacturer of the system.”



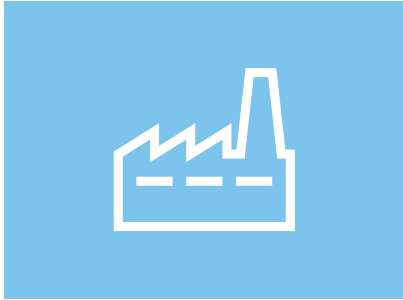
Fact

Protec can be Open Protocol

Fire alarm systems must use the same manufacturer detectors across a detection loop.

Both Open and Closed Protocol systems can be bought off the shelf and installed by any competent fire alarm company.

What Makes us Open Protocol?



Open from Factory

All our fire alarm panels leave the factory unlocked ready for the level of access to be determined by the end user, or their fire system provider.



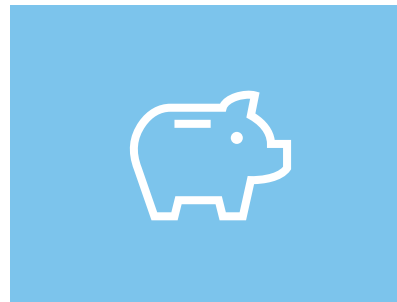
Easy Access to Software and Information

The software and updates for our fire alarm panels can be accessed by any competent fire system provider through our client support portal.



Open to Anyone

Any trained competent fire system company can service and maintain our current generation fire alarm systems.



No Subscription Assistance

Documentation and videos are available without the need of a subscription through our client support portal and technical training videos*.

*Further complex training and personal assistance available upon request.

Free From Interference

The 6000PLUS protocol operates on a low-voltage data transfer, which is crucial for its effective performance. This data transfer is of utmost importance, and it must be done instantly without any interference from external factors. That is why our products that use the 6000PLUS protocol undergo rigorous testing to ensure their safety from a variety of potential scenarios.

In accordance with the EN standards, the 6000PLUS Product range is safe from:



Radio Frequencies

Safe from RF interference (radio frequencies) affecting the fire alarm devices.



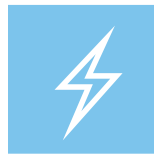
Mobile Phones

Immune to interference created by mobile phones and Wi-Fi.



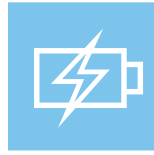
Conducted Immunity

Safe from electrical disturbances from nearby devices powered by the same power network.



Energy Surges

Offers good resistance from large instantaneous voltages on devices integrated with the system.



Fast Transients

Safe from high-frequency pulses caused by sparks when ac/dc connections are made to the system.

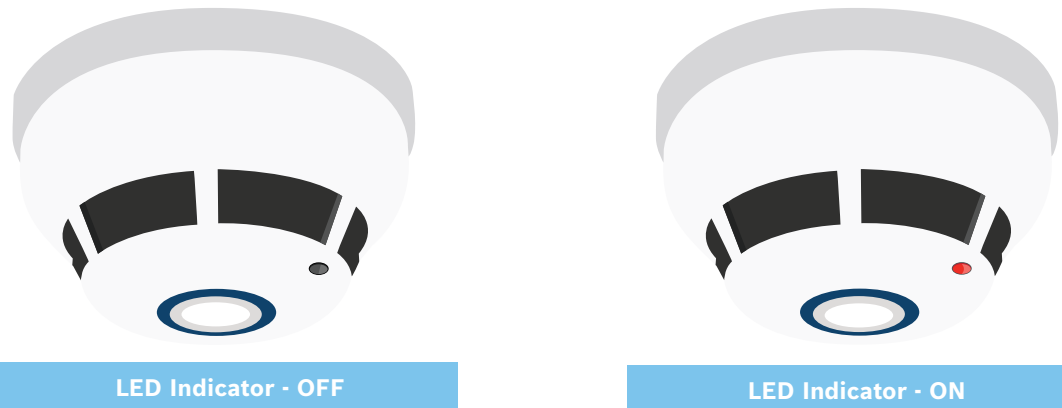


Electrostatic Discharge

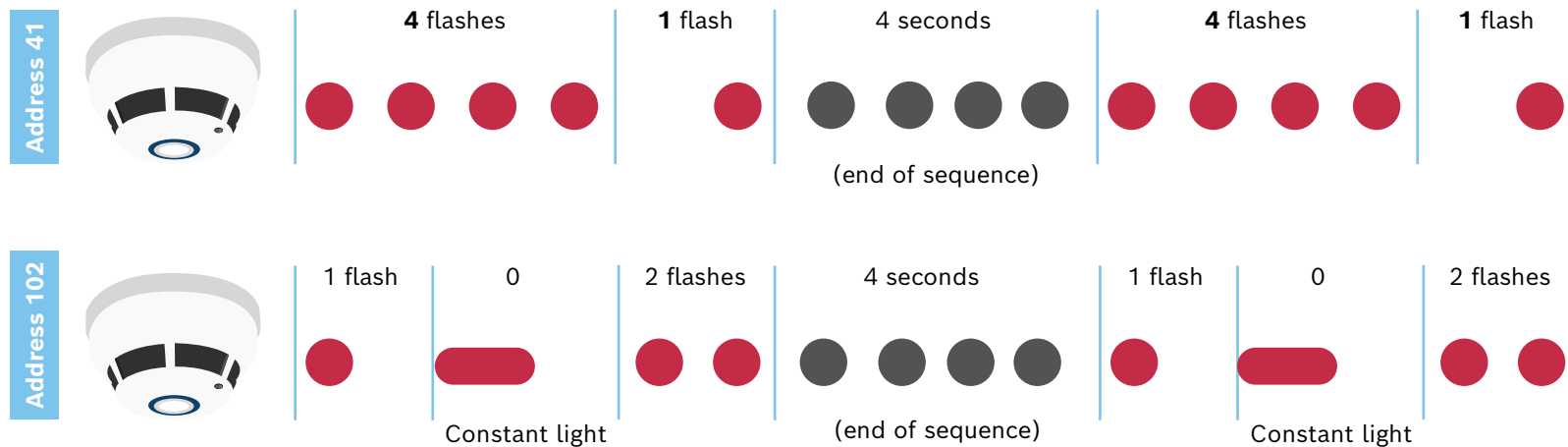
It is protected against damage to system components from static electricity.

RVAV™

'Remote Visual Address Verification' is a feature that makes it easier for engineers to identify a device address. Engineers can determine a device's unique loop address by simply looking at the LED on a detector, manual call point or interface. When activated, the LED's on each device flash in a Morse code-like state. You can quickly determine the device's unique loop address by counting the time between flashes.



Identification sequence examples



FAST™ Addressing

FAST™ (Firmware Addressed Secure Technology) uses a simple barcode scanning procedure to commission the sensor, removing the time-consuming task setting of address cards, DIL switches or specialist programming tools.

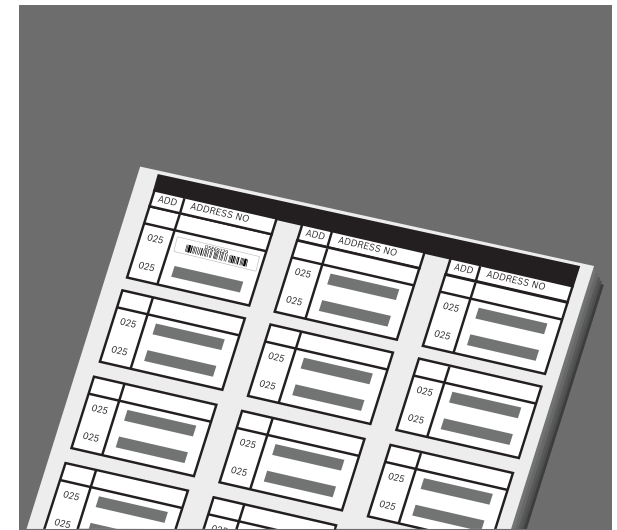
FAST™ addressing in three simple steps



- 1 Locate the barcode on the inside of the sensor



- 2 Peel the sticker from the sensor. Place the sticker in the commissioning booklet at the desired address, with a note on location in the text box.



- 3 Hand the booklet over to the commissioning engineer to scan the barcodes into the site file on the PC application or Android Commissioning app.

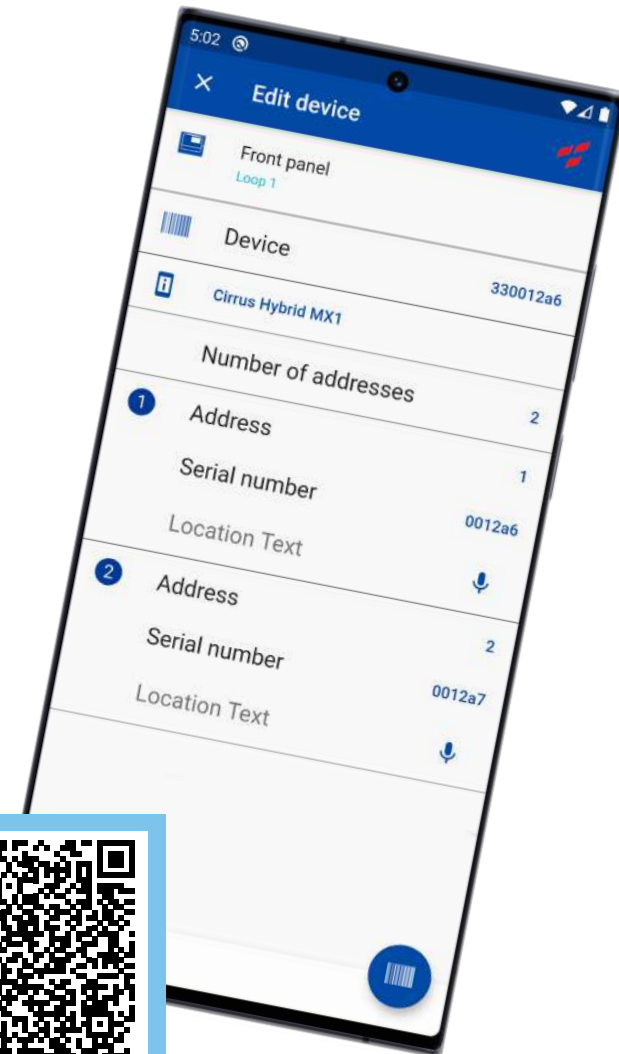
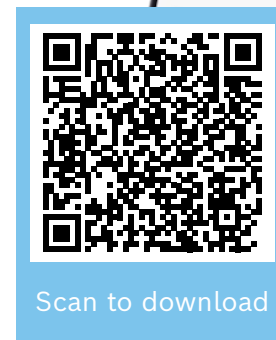
Streamline Commissioning

The Protec Loop Commissioning App is a valuable tool that allows engineers to commission fire alarm systems using their mobile devices. With the app, an engineer can quickly scan the FAST™ barcode of each device while walking around the site, making it easier to add them to the system. Once all devices are scanned, the engineer can send the site file to their computer via email, WhatsApp, Bluetooth, or Wi-Fi, saving them valuable time in the field.

One of the app's most powerful features is its ability to calculate the maximum loop capacity, which means it can provide a warning if the maximum current limit is exceeded. The app is available on Google Play, no purchase needed, and there are no subscription fees or locked features. So, anyone can use the Protec Loop Commissioning App without any limitations.

Please note: The Loop Commissioning App is only available on Android devices.

Download the app today!

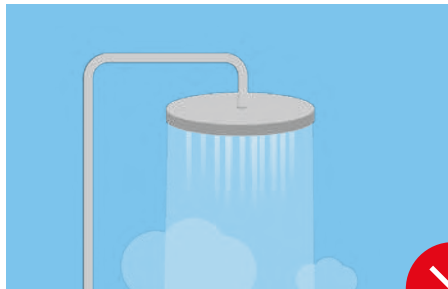


Algo-Tec™

The Algo-Tec™ software empowers all 6000PLUS sensors to accurately differentiate between smoke, steam, dirt, and other contaminants. This advanced technology enhances the sensor's precision and reduces false alarms significantly, providing reliable and trustworthy results.

Residential Mode

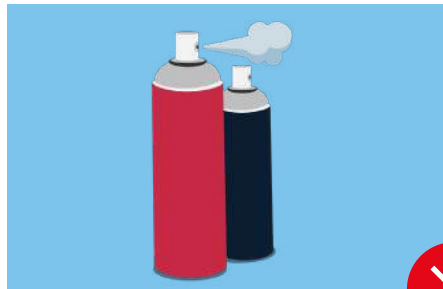
Bathroom Steam



SELECTIVE ALGORITHM



Aerosols



SELECTIVE ALGORITHM



Cooking Fire



ALARM



Office Mode (High Performance)

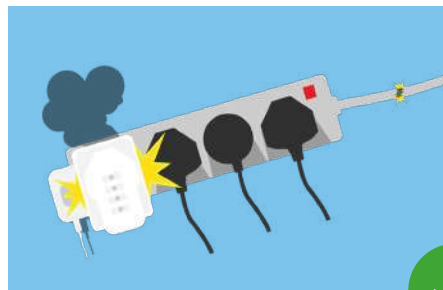
Kitchen Steam



SELECTIVE ALGORITHM



Electrical Faults



ALARM



Computer Fire

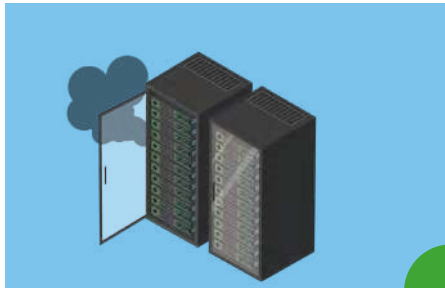


ALARM



Clean Mode (Extra High Performance)

Server Fire



ALARM



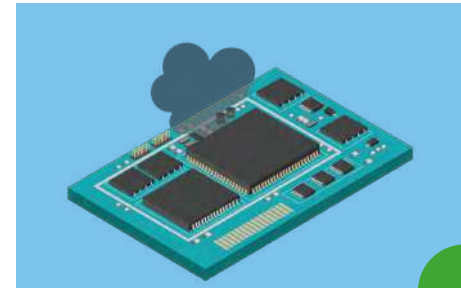
Chemical Fire



ALARM



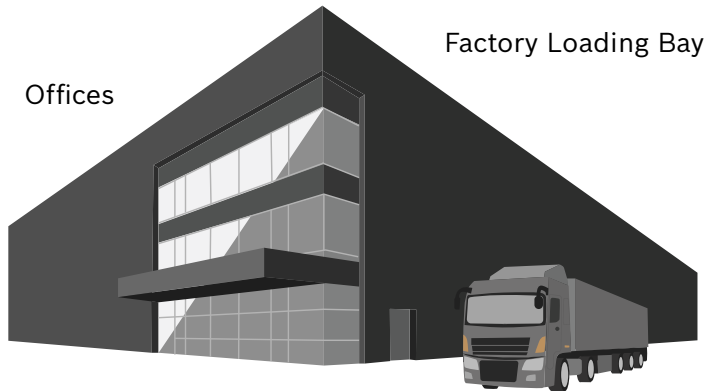
Component Fire



ALARM



Day Mode



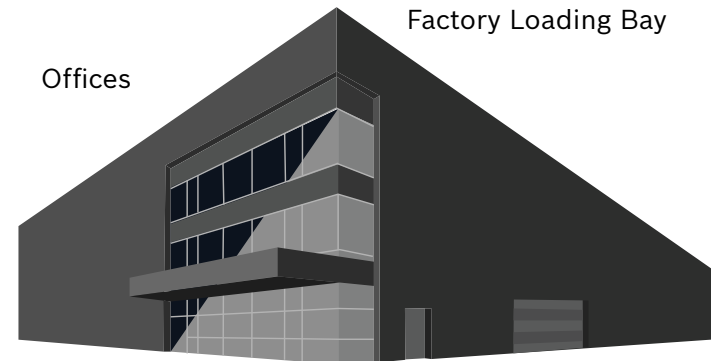
Offices

Factory Loading Bay

Office:
High Performance

Factory Loading Bay:
Heat Detection Only

Night Mode



Offices

Factory Loading Bay

Office:
Extra High Performance

Factory Loading Bay:
Smoke & Heat Detection

Note: The given illustrations demonstrate how a well-designed BS5839 system responds to occasional contaminants and fire. These examples show some of the system's decision-making algorithms, specifically for the 6000PLUS/OPHT model.

Benefits of Algo-Tec™

- Reduced false alarms
- Enhanced performance
- On-site flexibility
- Reduced maintenance costs
- Adjustable sensitivity
- Intelligent fire detection
- Time-controlled sensitivity
- Low failure rate
- Low current consumption