PICTURE a fire panel that is touchscreen-controlled, a breeze to install, provides clear and constant feedback on all aspects of system activity and is fully compliant with all relevant standards. Picture the ZFP - a powerful, intuitive and feature-rich range of 1 to 8 loop adressable fire panels from Context Plus.

Key Features

- Third-party certified to EN54 parts 2 and 4 by Intertek
- Communication protocol - Apollo XP95/Discovery
- Full compatibility with the Context Plus range of fire detectors, call points, sounders, beacons and control modules.
- Three cabinet sizes - standard (1, 2 or 4 loops), medium (2, 4, 6 or 8 loops) and large (2, 4, 6 or 8 loops)
- Full colour LCD touchscreen with an intuitive interface & digital QWERTY keyboard (touchscreen can be fully customised with a company logo)
- Secure fault tolerant network (needs separate network driver PCB)
- Up to 128 peer to peer node capacity (64 panels plus up to 64 Compact Controllers/Repeaters
- Very flexible cause and effects
- Wide range of Switch & Indicator modules c/w slide-in labels for straightforward customisation. (Common word processor templates available online)
- Multiple "A-Bus" peripherals (I/O Units, Relays, Sounder Extender Cards, Conventional Zone Cards, etc)
- Programmable via galvanically isolated USB port
- Up to 200 separate zonal LEDs per panel (100 on standard sized cabinets)
- 10,000 programmable and indicatable detection zones
- Up to 38 characters of custom text per loop device
- Emailable firmware updates (no flash programmer required!)
- 20,000+ event memory (filterable by fire, fault and date)
- 4 programmable operational modes
- Optional thermal printer with front-loading paper
- 4 GB Micro SD memory simplifies off-site configuration
- 72-hour standby (plus 30 min alarm) in standard cabinets
- Powerful engineering and commissioning functions including 'SafeMode', 'DeviceManager' and more
- Powerful and intuitive PC programming tools
- Optional graphical interface solutions
- Up to 18Ah batteries in standard cabinets, 38Ah in larger cabinets.

ZFP Standard Cabinet

ZFP Medium Cabinet

Compact Repeaters

ZFP PART NUMBERS

Standard

ZFP PANELS WITH 40 ZONAL LEDs

Z015040NS/X/CON
ZFP 1 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Z025040NS/X/CON
ZFP 2 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Z045040NS/X/CON
ZFP 4 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Standard

ZFP PANELS WITH 40 ZONAL LEDs & ONBOARD PRINTER

Z025040PS/X/CON
ZFP 2 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Z045040PS/X/CON
ZFP 4 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Compact

ZFP REPEATERS, EXPANSION PCBs & GRAPHIC INTERFACES

ZREP1S
ZFP Repeater/Compact Controller.
Surface mount.
Requires BF360-24 1A 24V boxed PSU.

ZHN
ZFP RS485 Network PCB
(one req. per main ZFP panel)

Z02LOOP/X
2 loop Extender PCB.
(Extends 2 loop ZFP to 4 loops)

Medium

ZFP PANELS WITH 40 ZONAL LEDs

Z065040NM/X/CON
ZFP 6 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Z085040NM/X/CON
ZFP 8 loop Panel with 40 zonal LEDs (Z47), 5A PSU.

Medium

ZFP PANELS WITH 40 ZONAL LEDs & ONBOARD PRINTER

Z065040PM/X/CON
ZFP 6 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Z085040PM/X/CON
ZFP 8 loop Panel with 40 zonal LEDs and on-board printer (Z49), 5A PSU.

Miscellanaeous

ZTOOLS ZFP programming tools (Windows)

Z11 4 Relay PCB (half size)

Z12 8 Relay PCB (full size)

Z13 8 Input output PCB (half size)

Z14 16 Input output PCB (full size)

Z15 4 x Conventional 1A 6K8 Sounder Circuit PCB (full size)

Z16 4 x Detection Zone & 2 x 1A 6K8 Sounder Circuit PCB (full size)

GRAPHICS PACKAGES

ZG1 ZFP Single Panel Graphics Interface Package

ZG2 ZFP 1 to 5 Panel Graphics Interface Package

ZG3 ZFP 1 to 5 Panel Graphics Interface Package with TCP/IP remote access manager

ZG4 ZFP 1 to 99 Panel Graphics Interface Package with TCP/IP remote access manager

Contact us for a full list of graphic package features

BEZELS, STAINLESS STEEL FRAMES & VISION WINDOWS - *Contact us for details.*

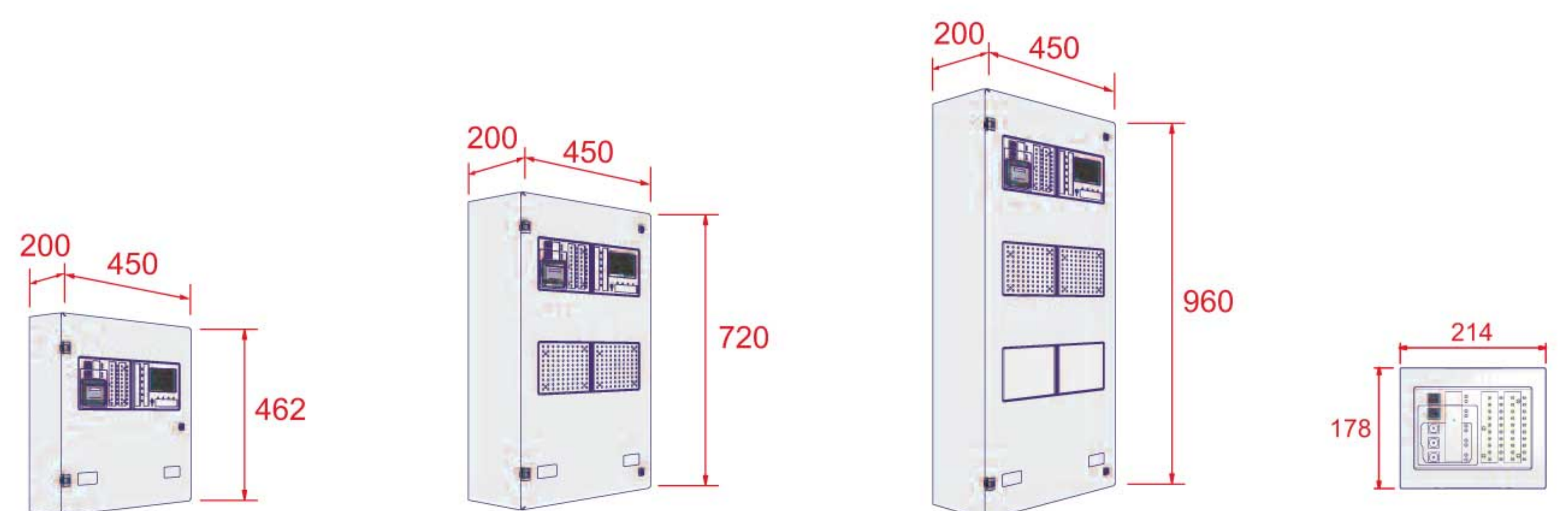| POWER SUPPLY & CHARGER	
Mains Supply Operating Voltage	230Vac ±10% 50/60Hz 810mA max.
Rated current	810mA Max (Standard cabinet ZFPs; 1.35A Max (Medium & Large Cabinet ZFPs)
Internal power supply	5A (Standard cabinet ZFPs); 5A (Medium & Large Cabinet)
Max. continuous output current (incl. charging)	5A (Standard cabinet ZFPs; 5A (Medium & Large Cabinet)
Max. VRLA battery size and type	2 x 12V 18Ah (Standard cabinet ZFPs); 2 x 12V 38Ah (Medium & Large Cabinet)
LOOP DRIVERS	
Number of loops	1, 2, 4, 6 or 8 dependent on model
Max. output current per loop	500mA (Voltage: 25V min; 34V max)
Communication Protocol	Context Plus XP95 (max. 127 addressable devices per loop)
Type of cable / Max. cable length per loop	Fire resistant screened, up to 2.5mm2 / 1KM max length
Max. allowable loop impedance/capacitance	20 ohm (each conductor)
Max. cable capacitance	.27uF
CONVENTIONAL SOUNDER CIRCUITS	
Number/type of conventional sounder circuits	2 x 1A outputs. Protected by resettable overload circuit 19.5V min; 28V max
Output voltage	19.5V minimum, 28V maximum
Type of cable / Max. cable length per loop	Fire resistant screened, up to 2.5mm2 / 1KM max length
AUXILIARY INPUTS (PROGRAMMABLE)	
Number of auxiliary inputs	2 (Connect to 0V to trigger, Max. input voltage 27Vdc non-latching). 6800 ohm, 5%Tol, 0.25W
EOL resistor value (supplied)	6800 ohm, 5% tolerance, 0.25W
Trigger resistor (supplied)	470R, 0.25W
RELAY OUTPUTS (PROGRAMMABLE)	
Number of relay outputs	2 x programmable auxiliary relays; 1 x failsafe fault relay; 1 x 24Vdc aux. power output
Relay type & outputs	1A, 30Vdc (maximum). Voltage free, single pole changeover
Fault relay	Active when faults are present or on total power failure
24Vdc auxiliary power output	19.5V minimum, 28V maximum. Max current 100mA.
INDICATORS AND CONTROLS	
Standard provision	All models include a Z41 Control module which comprises a full colour 4.3"touchscreen All mandatory EN54 indicators, 3 spare LEDs & a keyswitch allowing access to AL2
Zonal Indicators	Up to 200 programmable LEDs available via Switch & Indicator expansion modules
Switches & onboard printers	Multiple switch & printer configs available via Switch & Indicator expansion modules
Switch & Indicator module capacity	2 (standard cabinets); 4 (medium cabinets); 6 (large cabinets). 1 x Z41 req. per panel
COMMUNICATION BUSES	
On-board Serial Printer (Optional)	1 x RS232 connector
Pager/DECT Interface	1 x RS232 connector
Networking	1 x RS485 connector (hi-integrity fault-tolerant)
Peripheral Bus (A-Bus)	1 x RS485 connector. Allows the connection of up to 15 A-Bus PCBs. Wiring requirements = 2 core plus screen plus 2 core for power.
PC Interface	Galvanically isolated USB connector (provided on the Z41 Control/Display module)
NETWORKING	
Network type	RS485 (hi-integrity fault tolerant, ring wired). 1xZHN PCB required per networked panel
Maximum no. of network nodes	128 (up to 64 x 8 loop panels and 64 x compact controllers)
Type of cable / Max. cable length	Fire resistant screened, up to 2.5mm2; 1KM between nodes; 128KM (max network length)
Network wiring	Fire resistant screened cable, up to 2.5mm2
Detail	Events (Fires, Faults, Disablements, Tests) & Actions (Silence/Resound Sounders, Reset) can be accepted over the network.Zones, Input & Output Groups, etc can be shared over the network
MECHANICAL & ENVIRONMENTAL	
Finish & IP rating	Light grey texture (RAL7035) epoxy. Mild steel. Zintec 1.2mm
Operating temperature / humidity	-5°C to +40°C / 5% to 95 % R.H non condensing
Dimensions (lid & back box) H x W x D mm	

200 450
462
Standard (1-4 loop) (18AHr Batteries)

200 450
720
Medium (2-4-6-8 loop) (12-38AHr Batteries)

200 450
960
Large (2-4-6-8 loop) (12-38AHr Batteries)

214
178
Compact Controller

Quality without Compromise

LPCB

Optical Smoke Detector
Part Number 55000-600IMC

OPTICAL SMOKE DETECTOR, XPERT STYLE, 55000-600IMC

The Context Plus XP95 optical detector uses the same outer case as the ionisation smoke detector and is distinguished by the indicator LED which is clear in standby and red in alarm. Within the case is a printed circuit board which, on one side, has the light proof labyrinth chamber with integral gauze surrounding the optical measuring system and, on the other, the address capture, signal processing and communications electronics.

An infrared light emitting diode within its collimator is arranged at an obtuse angle to the photo-diode. The photo-diode has an integral daylight-blocking filter.

The IR LED emits a burst of collimated light every second. In clear air the photo-diode receives no light directly from the IR LED because of the angular arrangement and the dual mask. When smoke enters the chamber it scatters photons from the emitter IR LED onto the photo-diode in an amount related to the smoke characteristics and density.

DEVICE RESPONSE

Type: Overheating/thermal combustion
Response: Very good

Type: Smouldering/glowing combustion
Response: Good

Type: Flaming combustion
Response: Good

Type: Flaming with high heat output
Response: Good

Type: Flaming - clean burning
Response: Very poor

Technical Data

Specifications are typical and given at 23°C and 50% relative humidity unless stated.

Communication protocol: Apollo XP95 pulse 5-9V

Detector Type: Products of combustion (smoke) detector

Detection Principles: Photo-electric detection of light scattered in a forward direction by smoke particles

Chamber Configuration: Horizontal optical bench housing an infrared emitter and sensor arranged radially to detect scattered light

Sensor: Silicon PIN photo-diode

Emitter: GaAs Infra-red light emitting diode

Sampling Frequency: 1 second

Supply Wiring: Two wire supply, polarity insensitive

Terminal Functions:

L1&L2 supply in and out connections (polarity insensitive)

+R   remote indicator positive connection (internal 2.2kΩ resistance to supply +ve)

-R   remote indicator negative connection (internal 2.2kΩ resistance to supply - ve)

Supply Voltage: 17 to 28 Volts dc

Quiescent Current: 340µA average, 600µA peak

Power-up Surge Current: 1mA

Duration of Power-up Surge Current: 0.3 seconds

Maximum Power-up Time: 4 seconds for communications (measured from application of power and protocol) 10 seconds to exceed 10 counts 35 seconds for stable clean air value

Storage Temp: -30°C to +80°C

Operating Temp: -20°C to +60°C

Alarm Level Analogue Value: 55

Clean Air Analogue Value: 25±7 counts

Alarm Indicator: Clear light emitting diode (LED) emitting red light

Alarm LED Current: 4mA

Remote LED Current: 4mA at 5V (measured across remote load)

Type Code: (210 43) 101 00

Sensitivity: Nominal threshold of 2.4% light grey smoke obscuration per metre

Guaranteed Temperature Range (No condensation or icing): -20°C to +60°C

Humidity (No condensation or icing): 0% to 95% relative humidity

Wind Speed: Unaffected by wind

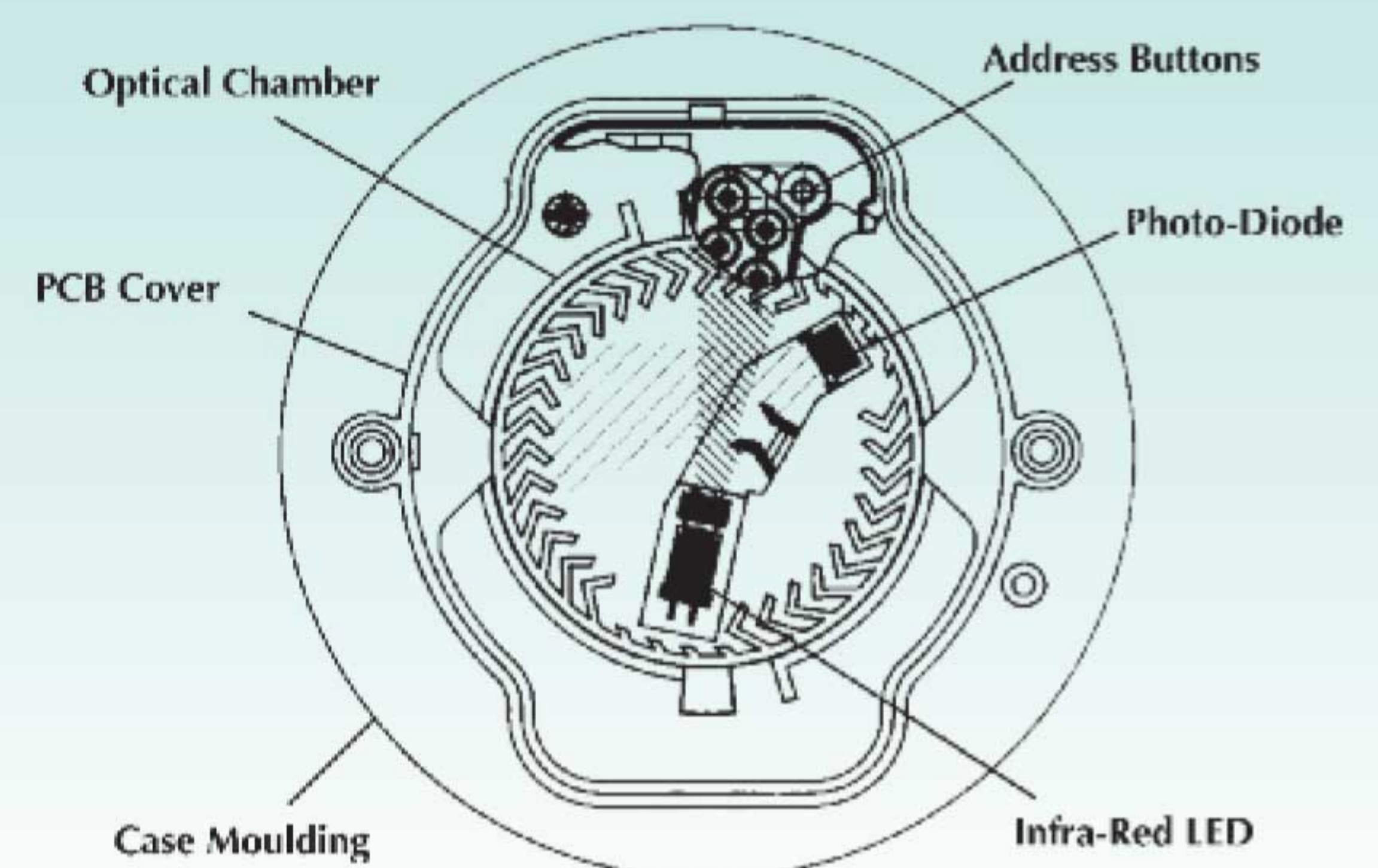**Atmospheric Pressure:** Unaffected

Vibration, Impact & Shock: To EN54 Pt 7 2001 (BS5445 Pt 7 2001)

IP Rating: 43

Dimensions: (diameter x height) Detector: 100mm x 42mm Detector in Base: 100mm x 50mm

Weights: Detector: 105g Detector in Base: 157g

Materials: Detector Housing: White polycarbonate V-0 rated to UL 94 Terminals: Stainless Steel

Optical Chamber | Address Buttons | Photo-Diode | PCB Cover | Case Moulding | Infra-Red LED

Top section view - Optical Smoke Detector

Quality without Compromise

Optical Smoke Detector
Part Number 55000-665IMC

LPCB

DEVICE RESPONSE

Type: Overheating/thermal combustion
Response: Very good

Type: Smouldering/glowing combustion
Response: Good

Type: Flaming combustion
Response: Good

Type: Flaming with high heat output
Response: Good

Type: Flaming - clean burning
Response: Very poor

OPTICAL SMOKE DETECTOR, DIL STYLE, 55000-665IMC

Our DIL Switch Addressed (DSA) Context Plus optical detector has a moulded self extinguishing white polycarbonate case designed to allow free entry of smoke while minimising the effects of dust contamination. Stainless steel wiper contacts connect the detector to the terminals in the mounting base. Within the case is a printed circuit board which on one side has the light proof labyrinth chamber with integral gauze surrounding the optical measuring system. The other side has the address capture, signal processing and communications electronics. An infra-red light emitting diode (IR LED) within the optical chamber is arranged at an obtuse angle to a photodiode. The photo-diode has an integral daylight-blocking filter. The IR LED emits a burst of collimated light every second. In clear air the photo-diode receives no light directly from the IR LED. When smoke enters the chamber it scatters light from the IR LED onto the photodiode in an amount related to the smoke characteristics and density. The photodiode signal is processed by the optical ASIC and passed to the A/D converter on the communications ASIC ready for transmission when the device is interrogated.

The address of the DSA Context Plus detectors is set using the DIL switch located on the underside of the device. All segments are set to 0 (ON) or 1 (OFF), using a small screwdriver or similar tool. The address should be written on the label and the rear of the detector sealed.

Technical Data

Detector Part No 55000-665IMC

Base Part No: 45681-200

Specifications are typical and given at 23°C and 50% relative humidity unless stated.

Communication protocol: Apollo XP95 pulse 5-9V

Address range: 1 to 126

Detector Type: Products of combustion (smoke) detector

Detection Principles: Photo-electric detection of light scattered in a forward direction by smoke particles

Chamber Configuration: Horizontal optical bench housing an infrared emitter and sensor arranged radially to detect scattered light

Sensor: Silicon PIN photo-diode

Emitter: GaAlAs Infra-red light emitting diode

Sampling Frequency: 1 second

Supply Wiring: Two wire supply, polarity insensitive

Terminal Functions:

Supply positive and negative in and out connections (polarity sensitive). Remote indicator connection to LED driver base

Supply Voltage: 17 to 28 Volts dc

Quiescent Current: 340µA

Duration of Power-up Surge Current: 1 second

Maximum Power-up Time: 4 seconds for communications (measured from application of power and protocol) 10 seconds to exceed 10 counts 35 seconds for stable clean air value

Storage Temp: -30°C to +80°C

Operating Temp: -20°C to +60°C

Alarm Level Analogue Value: 55

Clean Air Analogue Value: 25±7 counts

Alarm Indicator: Red Light Emitting Diode (LED)

Alarm LED Current: 2mA

Remote LED Current: 4mA at 5V (measured across remote load)

Type Code: (210 43) 101 00

Sensitivity: Nominal threshold of 2.4% light grey smoke obscuration per metre

Humidity (No condensation or icing): 0% to 95% relative humidity

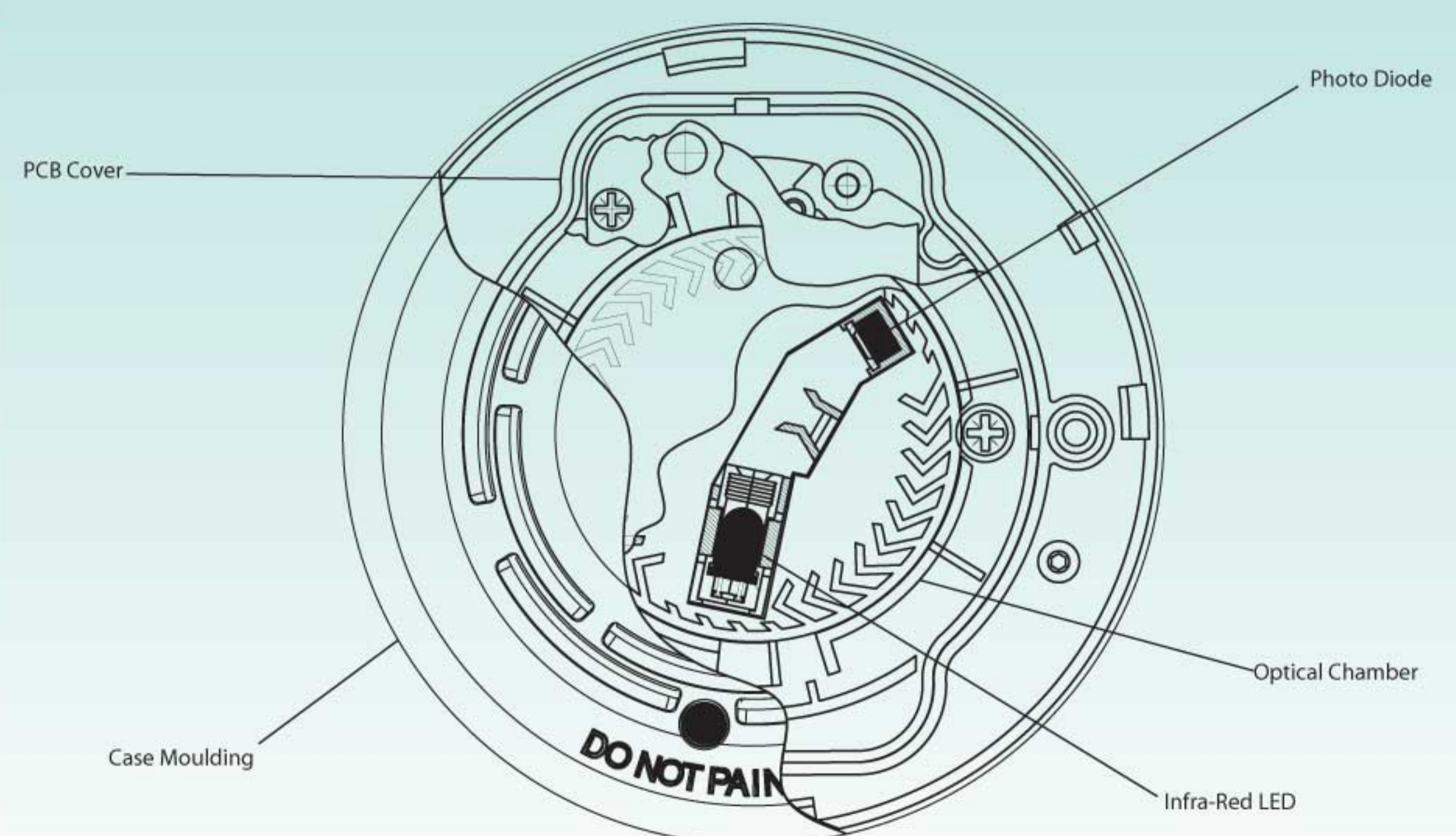**Wind Speed:** Unaffected by wind

Atmospheric Pressure: unaffected

Vibration, Impact & Shock: To EN54–7:2001 CE marked.

IP Rating: 43

Dimensions: (diameter x height) Detector: 100mm x 39mm Detector in Base: 100mm x 47mm

Weights: Detector: 100g Detector in Base: 157g

Materials: Detector Housing: White polycarbonate V-0 rated to UL 94 Terminals: Stainless Steel

PCB Cover
Photo Diode
Optical Chamber
Case Moulding
DO NOT PAIN
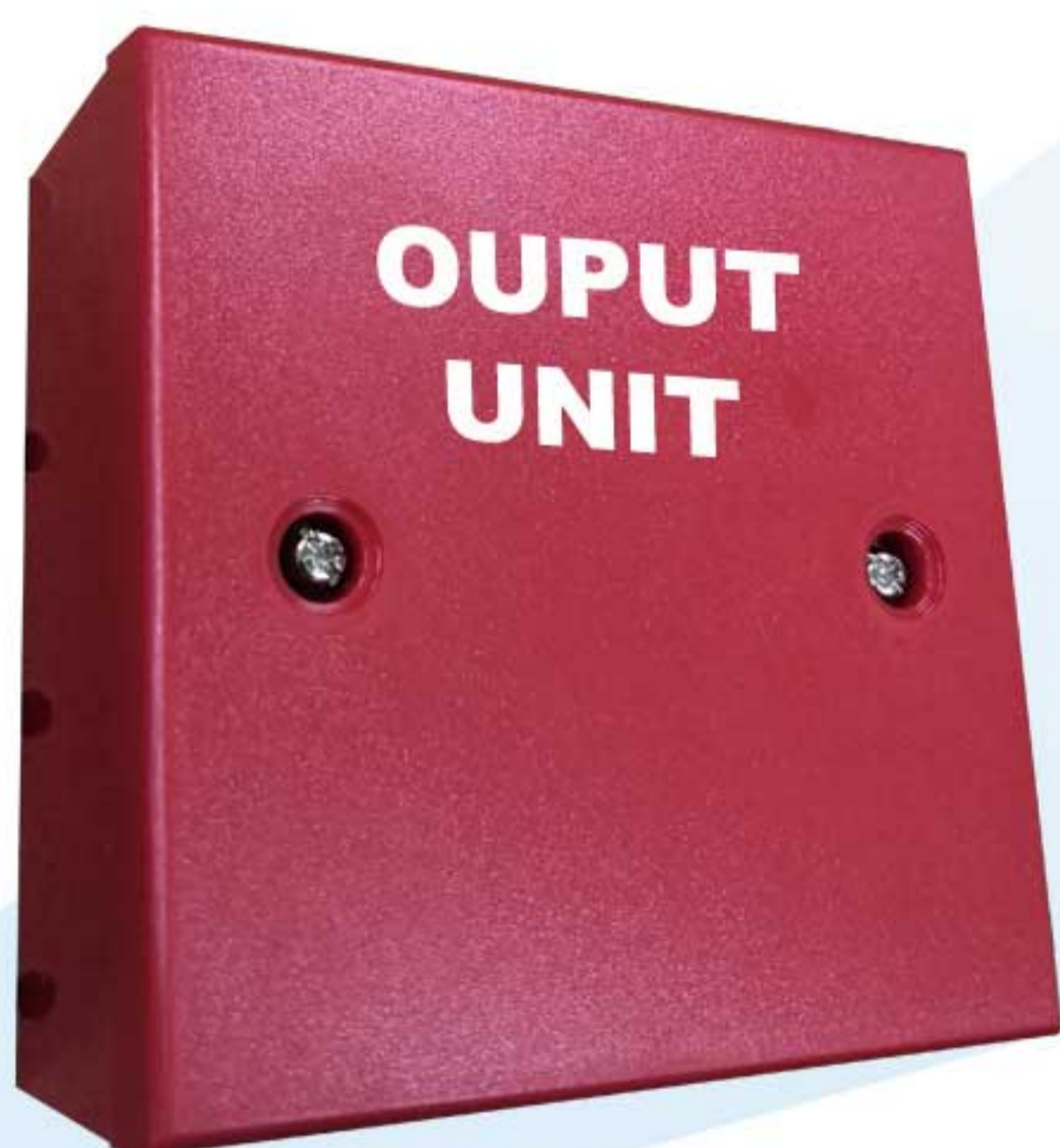Infra-Red LED

Top section view - Optical Smoke Detector

INTELLIGENT MANUAL CALL POINT

The D-108-DA111 Manual Call Point is intended for indoor applicaions.
An alarm is initiaed by pressing the glass element. The manual call point signals its ststus to the Contect Plus fire alarm control panel using an interrupt feature within the system's digital protocol. An alarm status is indicated on the call point through a solid red LED. The manual call point can be easily test using the supplied test key.

SWITCH MONITOR

The DA-111-I/P addressable alarm single input modules provide the interface to connect an electrically isolated dry-contact switched inputs to Context Plus addressable control panel.
The DA-111-I/P input module capable to monitor such as pump indication, gas discharge indication, flow switch and butterfly valve etc.
The DA-111-I/P input module range provides fire detection and alarm system designers with a Standards-compliant.

OUTPUT UNIT

The DA-111-O/P output modules provides a voltage-free single pole, change-over relay output. It is a simplified version of the Input/Output unit without circuitry for monitoring inputs. Capable of switching up to 30V @ 1A.
The DA-111-O/P output module capable to trip such as lift, escalator, fan, AHU, magnetic door holder and etc.
The DA-111-O/P output modules provide the interface to connect non-addressable output devices (such as **Alarm Bell/Beacon**) to Context Plus addressable control panel.
The DA-111-O/P output module range provides fire detection and alarm system designers with a Standards-compliant.

I.DEMCO-ZFP-18-V2

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