

# White Flash

## Open-Area VADs



### Product overview

<b>Product Type</b>	Visual Alarm Device
<b>Part No.</b>	55000-740 XP95 Open-Area VAD Cat. C - Red Body (White Flash) (C-3-15)
	55000-742 XP95 Open-Area VAD Cat.C - Red Body (White Flash) (C-3-8)
	55000-743 XP95 Open-Area VAD Cat.C - White Body (White Flash) (C-3-15)
	55000-745XP95 Open-Area VAD Cat.C - White Body (White Flash) (C-3-8)
<b>Digital Communication</b>	XP95, Discovery and CoreProtocol® compatible

### Product information

The addressable Loop Powered Visual Alarm Devices (VADs) have been developed as primary or supplementary alarm devices. VADs may be used in situations where there is a risk that sounders will not be heard. It might also be required where deaf or hearing impaired persons may be present.

**The C-3-15 products require a specialist installation method - please purchase kit - 55000-747APO (C-3-15, red body) or 55000-748APO (C-3-15, white body) and refer to IG:39215-365 for further information.**

- Uses high intensity LEDs
- EN 54-23 compliant Category C VAD
- Coverage C-3-8 and C-3-15
- Flash rate 0.5 Hz
- Fault signal if LED check failed
- Wide angle of visibility
- Synchronised flash rates with the Apollo Protocol

### Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

<b>Coverage Class</b>	C-3-8 and C-3-15
<b>Flash Colour</b>	White
<b>Flash Rate</b>	0.5 Hz
<b>Digital Communications</b>	XP95, Discovery and CoreProtocol compatible
<b>Supply Voltage</b>	17 V - 28 V dc (polarity sensitive)
<b>Power Up Surge Current</b>	1.5 mA
<b>Quiescent</b>	280 µA
<b>Alarm Current (LED On)</b>	12.0 mA (C-3-8) 29.9 mA (C-3-15)
<b>Operating temperature</b>	-10 °C to +55 °C
<b>Humidity (no condensation or icing)</b>	0% to 95% RH
<b>Vibration, impact and shock</b>	EN 54-23
<b>IP Rating</b>	IP54 (when used with Part No. 45681-210, Part No. 45681-284 or Part No. SA5000-200 Mounting Base)  IP55 (when using the Deckhead Mounting Box Part No. 45681-217)
<b>Approvals and Standards</b>	EN 54-23, CPR, LPCB and VdS
<b>Dimensions</b>	Part No. 55000-740 & 55000-743: 100mm diameter x 48mm height (56mm height with XPERT 7 Mounting Base) see Figure 2  Part No. 55000-742 and 55000-745: 100mm diameter x 50mm height (58mm height with XPERT 7 Mounting Base) see Figure 3
<b>Weight</b>	105 g
<b>Material</b>	White / Red fire retardant polycarbonate

Note: Tested by Apollo to -40°C to +70°C

### Application

The Loop Powered Addressable Visual Alarm Device is a local area VAD designed for indoor use.

The VAD can be connected to systems with XP95, Discovery or Soteria® devices on the loop.

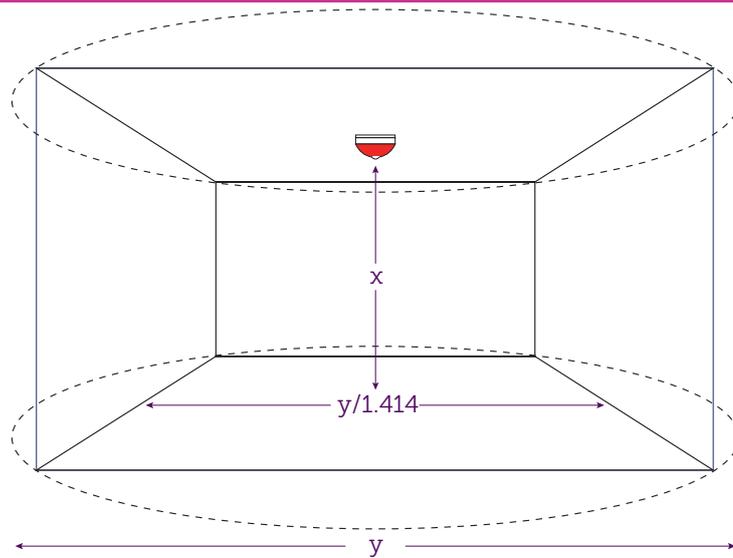
The Loop Powered VAD can be fitted to any XPERT 7 or XPERT 8 Mounting Base.

When fitted to an Ancillary Base Sounder (Part No. 45681-276) the sounder activation will be controlled by the VAD.

When fitted to an Integrated Base Sounder the devices can be controlled separately via their individual address.

Figure 1 shows the coverage volume for the ceiling category VAD with example calculations.

Figure 1: Category C Open-Area VAD with XPERT 7 Mounting Base coverage area



X - The maximum height in metres at which the VAD may be mounted.

Y - The diameter in metres of the cylindrical volume covered when the device is mounted to the ceiling at a height of 3 m.

55000-740 XP95 Open-Area VAD Cat. C - Red Body (White Flash) (C-3-15)

55000-742 XP95 Open-Area VAD Cat.C - Red Body (White Flash) (C-3-8)

55000-743 XP95 Open-Area VAD Cat.C - White Body (White Flash) (C-3-15)

55000-745XP95 Open-Area VAD Cat.C - White Body (White Flash) (C-3-8)

Note: C-X-Y represents C-3-8 / C-3-15

Table 1 Digital Communications Protocol Compatibility

Protocol	Device Behaviour
XP95 / Discovery †	S90
CoreProtocol †	S90

† Fire Control Panel Dependent

**Electrical Considerations**

The VAD is loop powered and requires no external power supply. It operates at 17 V - 28 V dc.

**Loop Loading**

Each VAD must be fitted between Apollo 20D isolators (see PP2090 for a list of 20D isolators). The maximum number of devices is dependent on the devices individual coverage class.

In order to determine the exact number in a loop please use the 'Loop Calculator' available as a free download on the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

**Addressing**

The Loop Powered VAD must be assigned an address by coding the XPERT card.

**Mechanical Construction**

The case of the VAD is made of white or red self extinguishing polycarbonate with stainless steel contacts.

**EMC Directive 2014/30/EU**

The VAD complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

**Construction Products Regulation (EU) 305/2011**

The VAD complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

A copy of the Declaration of Performance is available from Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

Figure 2: Open-Area VAD (C-3-15) with XPERT 7 Mounting Base Dimensional Drawing

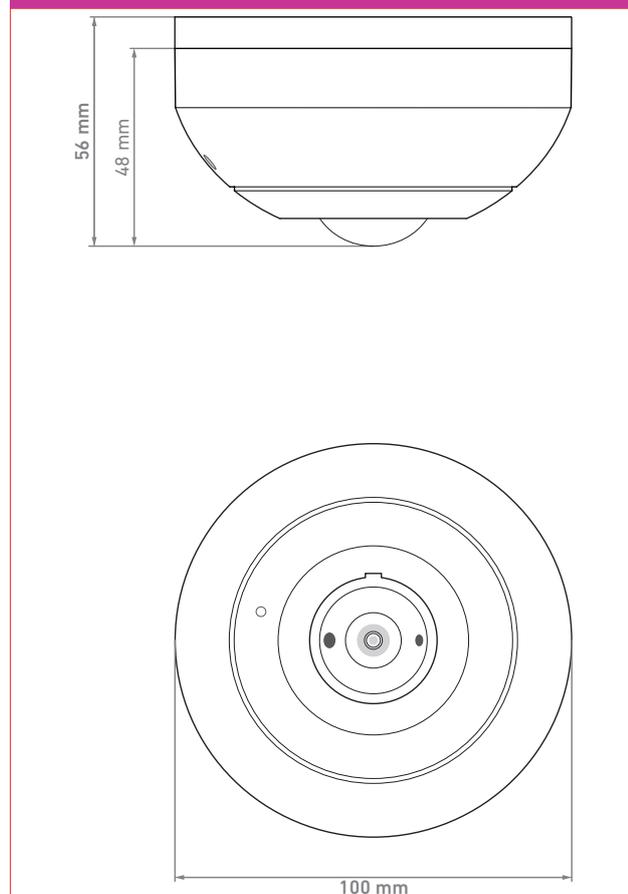


Figure 3: Open-Area VAD (C-3-8) with XPERT 7 Mounting Base Dimensional Drawing

