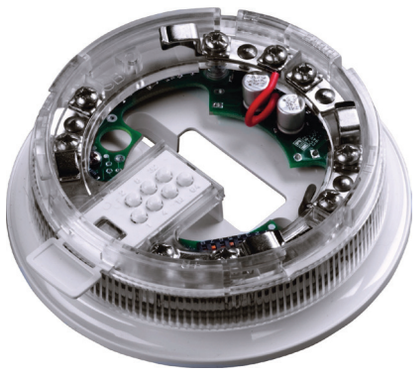
Loop-Powered Visual Indicator Base



Product overview

Product	**Loop-Powered Visual Indicator Base with Isolator**
Part No.	**45681-333**
Product	**Loop-Powered Visual Indicator Base**
Part No.	**45681-335**
Digital communication	**XP95**

Compliance

CE

Product information

The Loop-Powered Visual Indicator Bases are made up of a loop-powered visual indicator combined with a standard intelligent mounting base. They are used to signal an alert in enclosed areas.

The Loop-Powered Visual Indicator Bases can be used with either a detector fitted or a cap for operation as a stand-alone alarm device.

The Loop-Powered Visual Indicator Bases are supplied with a built-in isolator. A version without an isolator is also available.

- Once per second flash rate (Red)
- Synchronisation of visual indicator flash
- Individual and group addressing
- Unique self-test feature

Technical data

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

Supply voltage	*17-28 V dc polarity sensitive*
Digital communication	*XP95, (Discovery and CoreProtocol compatible)*
Protocol pulses	*5 V - 9 V peak to peak*
Maximum loop current consumption at 24 V dc	
Quiescent	*300 µA*
Switch-on surge	*1.2 mA*
Device operated	*3.1 mA*
Operating temperature	*-20°C to +60°C*
Humidity (no condensation)	*0-95% RH*
Designed to IP Rating	*IP21C*
Standards and approvals	*CPR*
Dimensions	*115 mm diameter x 31 mm height*
Weight	*109 g*
Materials	*Body -white flame-retardant polycarbonate. Diffuser- translucent flame-retardant polycarbonate*

Note: *For details of short-circuit isolation refer to PP2090 available from www.apollo-fire.co.uk*

Addressing

The Loop-Powered Visual Indicator Base reponds to its own individual address set with a DIL-switch. It also responds to a group address, set by means of a four segment DIL-switch and to a synchronisation address which is embedded in the unit.

Addresses 1 to 111 are used exclusively for individual addresses; addresses 112 - 126 may be used as individual addresses but only if the four segment DIL-switch is not used, i.e. group addressing is disabled. If the four segment DIL-switch were set to any number other than the default 127, a pre-set analogue value of four would be transmitted to indicate a fault.

The Loop-Powered Visual Indicator Base is normally polled by its individual address.

It is recommended that the synchronisation address '0' is set by the control panel at regular intervals to align the internal clock of all visual indicator bases. The result is that the visual indicator bases are synchronised with each other when activated.

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Group addressing

It may be desirable, in alarm conditions, to switch more than one visual indicator base simultaneously. To enable this, devices may be controlled as a groupand given a group address which is common to all visual indicator bases in the group. When a device recognises its group address, it will process the output bits but it will not return any data to the control panel on that address. If it is required to confirm the output status of the devices under group address control, it is necessary to interrogate all devices in the group at their individual addresses.

Self-test

An important safety feature has been incorporated into the visual indicator base; when it is switched on it tests itself by checking the flash operation. If no current is drawn by the LEDs an analogue value of two is transmitted.

This feature can also be used during commissioning or periodic maintenance testing. Simply activate the visual indicator base for at least five seconds and check the control panel for a fault signal. If none is received, the visual indicator base is working properly.

Protocol compatibility

The Loop-Powered Visual Indicator Base is compatible with control equipment using Apollo XP95, Discovery and CoreProtocol communication. The features of the Loop-Powered Visual Indicator Base are only available when it is connected to a control panel with the appropriate software.

Synchronisation

It is possible to synchronise the flash outputs of all visual indicator bases connected to a loop. This is achieved by transmitting address '0' with the output bits set to logic '0' for one polling cycle.

EMC Directive 2014/30/EU

The Loop-Powered Visual Indicator Bases comply with the essential requirements of the EMC Directive 2014/30/EU, provided that they are used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

Conformity of the Loop-Powered Visual Indicator Bases with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Loop-Powered Visual Indicator Bases comply with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk