

803192-01.ccr



Product description

Description

Across the world disability legislation increasingly requires visual alarm signals to be employed to ensure equal response from people with hearing impairment. The ZP755V Addressable Beacon is perfectly suited for use where disability legislation is in force or where high levels of background noise exist.

Application

It provides visual warnings from a single, addressable, loop wired unit.

The ZP755V's low current Light Emitting Diode (LED) visual element, enables combinations of up to 60 beacons to be connected to a one kilometer loop of 1.5mm² cable. A plug-and-twist base accepts all loop and screen connections, prior to the sounder/beacon connection.

In systems where loop lengths or current requirements are excessive, ZP755V Addressable Beacon can be powered directly from an external power supply. All ZP755V Addressable Beacons incorporate switch settings enabling them to be assigned a unique address, which is polled by the panel every two seconds.

Moulded in high impact thermoplastic, the sounder is available in white.

Specifications

Designation:	Addressable Beacon
Model No/Part No.:	
ZP755V (white)	178201
Compatibility:	Compatible with ZP3 Panels only

Mounting:	Surface – with stand alone beacon base
ZP7-SBB (white)	201601
Addressing method:	8 way Dip switch
Wiring:	2 core loop
Monitoring:	Operating power level tested continuously.
Operating voltage:	External supply – 18V – 30Vdc Loop supply – ZP protocol 19.5V – 20.5V pulsed, max 4volts line loss
Current (quiescent):	400µA
Current (average active):	2.5 mA
Max number:	60 per 1km loop (subject to cable size and sounder spacing)
Light output:	Equivalent to 1J xenon element
Strobe frequency:	flash rate 1.1 seconds
Environmental:	
Application:	Indoor use
EN60529 Rating:	IP21C
Ambient Temperature:	-10°C to 55°C
Humidity:	10% to 95% RH
EMC:	CPD compliant
Material:	Moulded thermoplastic
Dimensions:	106mm (Dia) x 49mm (D)
Colour:	White
Weight:	95g

Physical Installation

Note: No wiring is required during the Addressable Beacon installation. Refer to Figure 1 for the base line wiring installation. All installation should be in accordance with the requirements of the authority having jurisdiction.

Mounting the Addressable Beacon

The Addressable Beacon attaches to compatible bases with a plug-and-twist action.

1. Align the Addressable Beacon with the base and turn it slowly until the location lugs and grooves mate, allowing the Addressable Beacon to slide completely into the base.
2. Rotate the Addressable Beacon clockwise until it locks. To remove the unit from the base, perform these steps in reverse order.

Note: To prevent unauthorized removal, a plastic breakout tab is provided in the Addressable Beacon housing. Once the breakout tab is removed the sensor can only be released by use of a special tool.

3. Prior to initial testing remove the yellow plastic dust cover from the Addressable Beacon and notify the proper authorities that the fire alarm system is undergoing maintenance and will be temporarily out of service.
4. An indent is provided on the beacon exterior for application of device address labeling to allow easy Addressable Beacon identification.

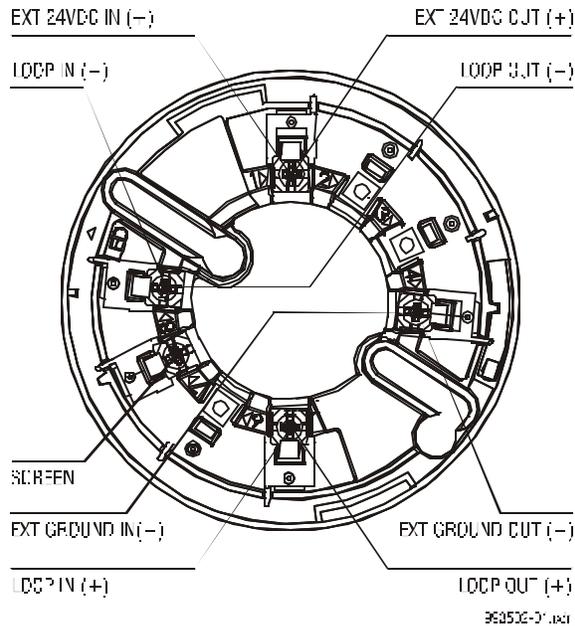


Figure 1

Setting the Address

Switches 1 to 7 of the dipswitch are used to set the device address in binary code. The switches may be set to represent all addresses from 1 to 127.

Emulation

The ZP755V can operate as a stand alone beacon or emulate a ZP755 sounder.

1. ZP755V mode
Set switch 8 of the dipswitch to OFF. Panel will identify device as a stand alone beacon.

This setting will operate with future versions of ZP3 software.
2. ZP755 sounder mode
Set switch 8 of the dipswitch to ON. Panel will identify device as a ZP755 sounder.

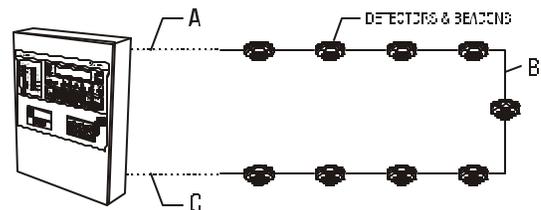
Number of Beacons per Loop

See figure 2.

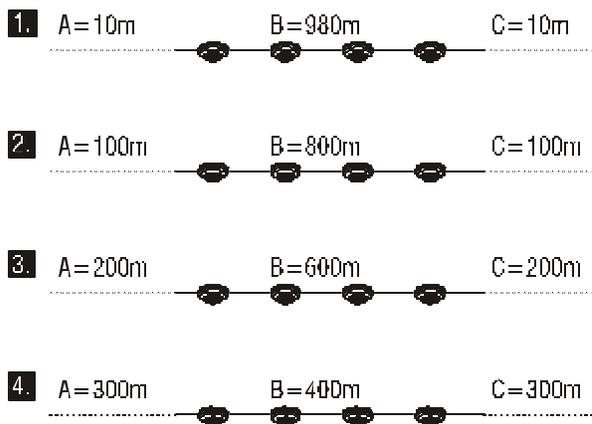
The ZP755V Addressable Beacon can be powered directly from the loop of a ZP3 panel. The table below, read in conjunction with figure 2, gives the quantity of detectors and sounders that can be connected to a 2 core screened loop of:

1000 metres cable size 1.5mm²

1. **10 metres panel to devices**
 - 60 detectors and 60 beacons
 - 80 detectors and 40 beacons
2. **100 metres panel to devices**
 - 60 detectors and 60 beacons
 - 80 detectors and 40 beacons
3. **200 metres panel to devices**
 - 60 detectors and 60 beacons
 - 80 detectors and 40 beacons
4. **300 metres panel to devices**
 - 60 detectors and 60 beacons
 - 80 detectors and 40 beacons



A = Cable length panel to first beacon
B = Cable length first to last beacon
C = Cable length last beacon to panel



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Figure 2