



DISCOVERY
SOUNDER
BEACON BASE

Part Number 45681-393

The Discovery Sounder Beacon Base is a multifunctional device comprising a mounting base for Discovery fire detectors, a sounder, a beacon and a short-circuit isolator.

Application

The Discovery Sounder Beacon Base is used to provide audible and visual warning of fire and is controlled by the fire control panel by means of the Discovery protocol. The particular features of this base are available only when it is being controlled by the full Discovery protocol with the panel programmed accordingly. Information on features should be requested from the panel manufacturer.

The Discovery Sounder Beacon Base can be used with a detector fitted or with a cap for operation as a stand-alone alarm device.

The right tone for your installation

The Discovery Sounder Beacon Base offers a choice of 15 evacuation tones, including the standard Apollo evacuation tone. One of these tones is selected during commissioning in order to suit local regulations or customs.

The tones include those required by Dutch, Swedish, German, Australian, New Zealand and North American standards as well as the UK.

Whichever evacuation tone is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

The right level of sound

The sounder is set during commissioning to one of 7 levels of sound, the highest level being nominally 90dB(A).

At 60dB(A) the lowest level falls outside the scope of the standard, EN54. It has been included to provide a very local warning for the use of personnel in particular environments, such as nurse stations in hospitals.

Flexibility of group addressing

In many installations a fire alarm must be raised by switching more than one sounder beacon to alert or alarm simultaneously. This is achieved with Discovery Sounder Beacon Bases by assigning devices to groups on commissioning, with the group information being stored in each device. One command will then switch all devices in the group.

Sounder, beacon or both

The Discovery Sounder Beacon Base normally switches both sounder and beacon to provide an alert or evacuation signal. The sounder and beacon of the Discovery Sounder Beacon Base can, however, be switched independently of each other by the control panel.

Location-specific volume setting

Detectors and sounder beacons are installed in many different types of environment.

When configuring the Discovery Sounder Beacon Base the adjustment of volume can be done at the point of installation.

The commissioning engineer simply sets the control panel to 'Setup' and then walks from one device to the next to set the required volume, using a magnetic wand, part no 29650-001. When all devices have been set the control panel is used to register all the individual volume settings.

Features

- 15 evacuation tones and 15 secondary or alert tones
- 7 volume levels
- Software-defined group addressing
- Alarm switching by individual device, by group or of all devices on loop
- Independent control of sounder and beacon
- Set-up and testing of devices at point of installation
- Isolator status information

TECHNICAL DATA

Discovery Sounder Beacon Base Part No 45681-393 Specifications are typical at 24V, 23°C and 50% relative humidity unless otherwise stated.		
Operating voltage:	17–28V DC (polarity sensitive)	
Protocol pulses:	5–9V	
Current consumption at 24V:	switch-on surge, <1s	1.2mA
	quiescent	350µA
	device operated at maximum volume	8mA
Maximum sound output at 90°:	90±3dB(A) Sound pressure level data is published in PIN sheet PP2203 available from Apollo	
Operating temperature:	–20°C to +60°C	
Humidity (no condensation or icing):	0–95%	
IP rating:	21D	

Note: do not connect XP95 sounders if Discovery sounders are being used.