



SAL-4001 ADDRESSABLE SIGNALLING DEVICE

Overview

The SAL-4001 addressable signalling devices are designed for local signalling of a fire alarm. They can operate only in the detector loop/line of the POLON 4000 control panels.

They are switched on by the control panel after fulfilling programmed operating criteria, e.g. after activation of fire detector (or manual call point) at chosen detection zone, pre-alarm conditions in the control panel, etc.

Principles of operation

The SAL-4001 signalling device can operate supplied only from detector loop, using 9 V 6F22 battery placed inside its casing, using external power supply or all mentioned power supply sources at the same time. Change between all those sources is made automatically to give maximum intensity of sound generated by the signalling device, i.e. when external power supply faults, the signalling device will be supplied using 9 V battery and when the battery faults – from the detector loop. All kinds of power supply sources are supervised. The fault condition is signaled by the control panel and a yellow LED diode on the SAL-4001 casing. The signalling device may generate three different alarm tones.

The SAL-4001 is equipped with internal short-circuit isolator. Coding of the signalling device address can be made automatically from the control panel level – the address code is saved in the memory of the SAL-4001.

Design

All electronic units with piezoelectric buzzer are placed inside 40 model range detector casing. Some room inside the SAL-4001 device is left for installation of a 9 V 6F22 battery. The G-40S (fire resistant) base should be used for mounting the signalling device on a ceiling.

The base is equipped with non-screw junction block for wire connection. The junction block has six terminals, two pairs marked „+” and „-” as an input and output of detector loop and two terminals for connection of external 24 V power supply.

Technical specifications

Operating voltage (from detector loop)	16.5 ÷ 24.6 V
Operating voltage (from external power supply)	24 V ± 8 V
Current consumption from detector loop:	
In stand-by mode	150 µA
While signalling	600 µA
Current consumption from external power supply:	
In stand-by mode	< 200 µA
While signalling	16 mA
Current consumption from 9 V battery:	
In stand-by mode	3 µA
While signalling	10 mA
Sound intensity using one of the following power supply sources:	
- detector loop	85 dB
- 9 V battery	94 dB
- external power supply	100 dB
Max. number of co-operating elements:	
- with POLON 4100 control panel	40
- with POLON 4200 control panel	50
- with POLON 4900 control panel	250
- with POLON 4500 control panel	250
Operating temperature range	from -10 °C up to +55 °C
Ingress protection	IP 21
Dimensions (with G-40S base)	Ø 115 x 54 mm
Mass	0.2 kg