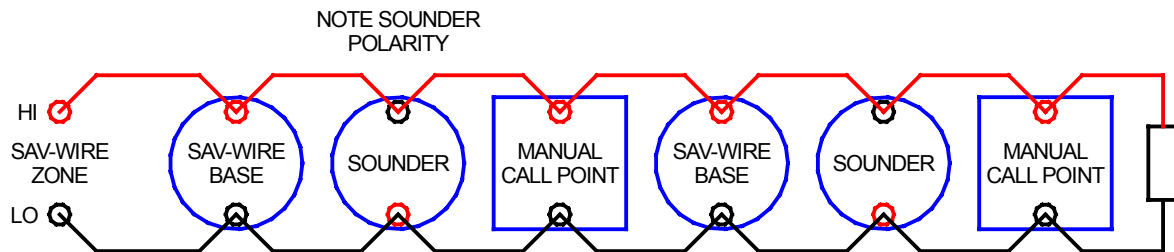


SAV-WIRE

SAV-WIRE 1

Sav-wire 1 (*PA* patent no. 1491222) is a 2 wire system allowing alarm sounders and detectors to be connected to the same pair of wires. Standard polarised sounders, call points (polarised) and detectors are used. All that is required are sav-wire bases for the detectors. This has obvious installation advantages.



NOTE!

- Call points should be **polarised** 220R-470R type. e.g. KAC MCP2B
- Nominal switching for alarm 470R.
- Monitors for open/short circuit and detector removed faults.
- Sav-wire bases are manufactured by Apollo, Hochiki & Nittan.

SAV-WIRE 2

Sav-wire 2 (*PA* patent no. 2281995), is identical to the original sav-wire, except it incorporates the facility to detect fires when the sounders are sounding so the spread of fire can be observed. Thereby conforming to the latest BS EN54 pt2 1998 specification. It achieves this by momentarily turning off the sounders to check if there is a fire. It does this so quickly (< 2mS), that it is inaudible on most types of alarm sounder. Apollo, Hochiki & Nittan manufacture suitable sav-wire 2 bases for their detectors.

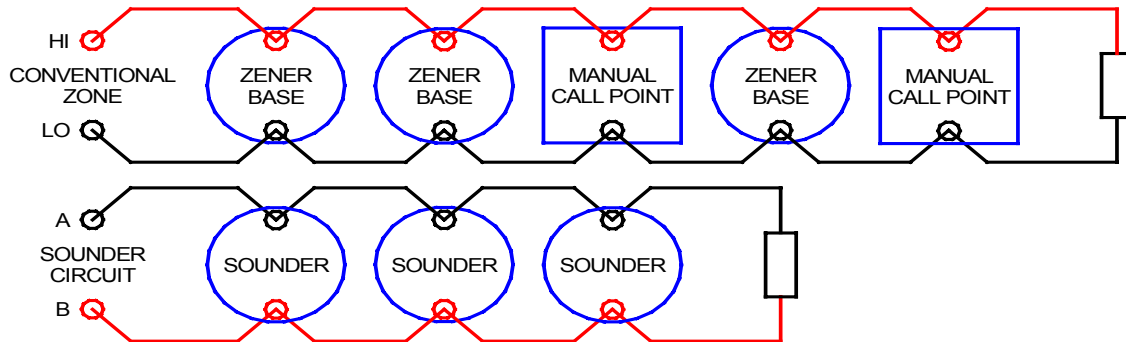
Sav-wire 2 bases are backward compatible with sav-wire 1 and may be used on a sav-wire 1 zone, but an old sav-wire 1 base may not be used on a sav-wire 2 zone.

Important Note!, Other panel manufacturers may utilise Sav-wire 2 compatible devices on Savwire zones, but unless fire can be detected when sounders are on, they will not conform to BS EN54 pt2 : 1998.

CONVENTIONAL

Standard

On a conventional zone detectors and sounders are wired separately. A standard PA conventional zone can use zener bases (*PA* patent no. 2069205) so that if a detector is removed a fault is signalled and manual call points further along the zone can still operate. This is a requirement from BS5839 pt 4 1988.

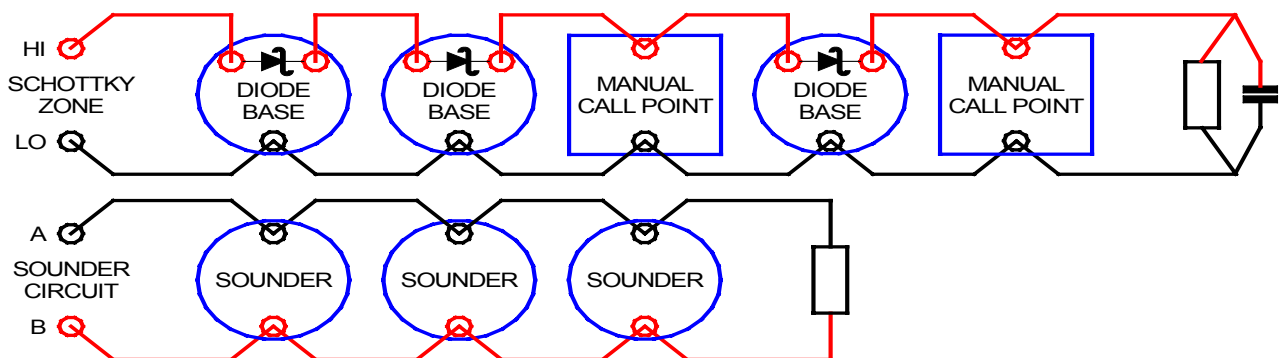


NOTE!

- Sav-wire(1 or 2) bases may be used as zener bases if required.
- Call points should be 220R-470R type.
- Nominal switching for alarm 470R.
- Monitors for open/short circuit and detector removed faults.
- All *PA* Sav-wire zones can be easily converted to Standard (Non-Savwire) operation if necessary.

Schottky Diode

An alternate method of sensing detector removal, whilst still enabling manual call points to operate, is to use Schottky diode bases. 909 panels can be configured to operate with diode bases.



NOTE!

- Diode bases shown are +ve leg type. Other polarity is also used dependent upon detector manufacturer.
- End of line resistor & capacitor is used for 909 panel.
- Call points should be 220R-470R type.
- Nominal switching for alarm 470R-680R.
- Monitors for open/short circuit and detector removed faults.