

Relay bases B312NL and B312RL for security applications

The Series 300 range of relay bases are part of the Series 300 range of conventional detectors.

The range consists of 12V non-latching and 12V latching versions to suit an array of security applications. Bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and circuit continuity when a detector is removed during normal system operation. There is also a tamper resistant feature, which when activated prevents the removal of the detector without the use of a tool.

The bases can be used together with detectors:

- photo electric smoke ED2351E
- compined detector ED2351TEM
- heat detector ED5351TE
- heat detector (RoR) ED5351E
- heat detector ED4351E

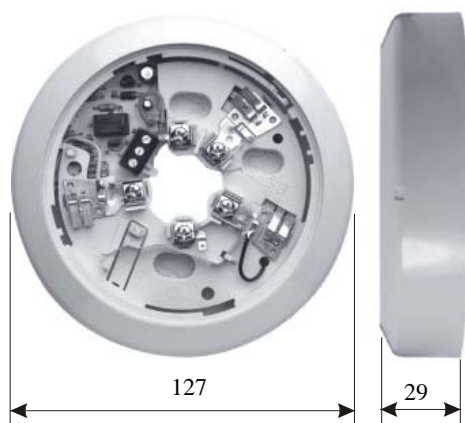
B312NL (12V Non-Latching)

The B312NL has been designed to provide interfacing between a Series 300 detector and 12V security control panels that do not provide a reset facility, as the relay base is self-resetting. Therefore, the relay base will automatically reset the Series 300 detector when an alarm condition no longer exists. While the detector is in alarm the LED will be on, although it will flash when an alarm check is performed. This base is also ideal for control of any electrical apparatus such as air conditioning systems or apparatus utilising a 12V power supply instead of a control panel.

B312RL (12V Latching)

The B312RL has been designed to provide interfacing between a Series 300 detector and a 12V fire system or security system that require an external contact to activate an ancillary piece of equipment. The relay is controlled directly from the detector. Therefore, in an alarm condition both the detector and relay base will latch into alarm, and can only be reset by removing the supply voltage from the detector. The base can be used with 4 wire security systems that have a reset facility.

Mechanical installation



Technical data

Dimensions	
- diameter	127 mm
- height	29 mm
Weight	96 g
Color	Pantone, warm grey 1C
Material	Bayblend FR110
Operating temperature	-20°C ... +70°C
Humidity	10 ... 93% (non condensing)
Start up time	Max. 24 s (detector ED2351TEM)
Remote indicator	4,0 V / 8 mA
Relay contact type	Form C (changeover contacts)
Relay contact ratings	1.0A @ 30VDC resistive
Relay contact resistance	100 mΩ
Base terminal cable size	Max. 2,5 mm ²
Relay terminal block cable size	Max. 2,5 mm ² (solid) Max. 1,5 mm ² (stranded)

B312NL

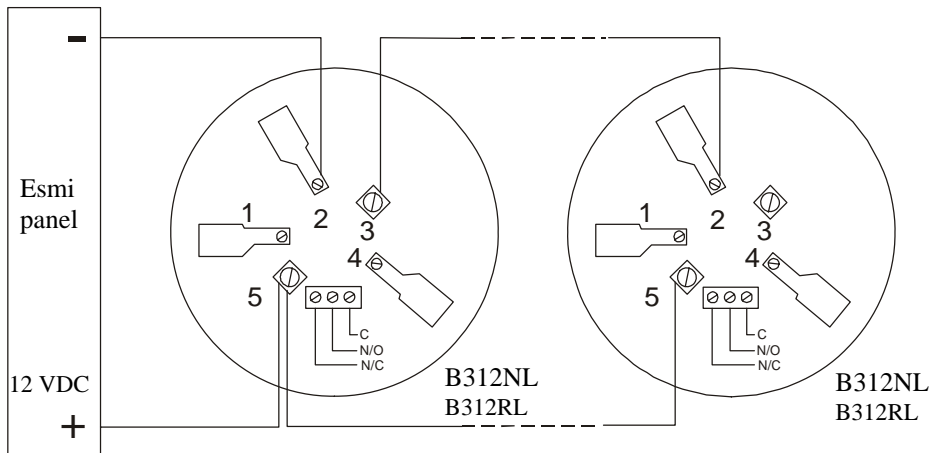
Operating voltage	8,5 ... 15 VDC
Alarm voltage	Max. 15 VDC
Standby current	20 µA (does not include detector current)
Maximum permissible alarm current	41 mA
Esmi product code	06715441

B312RL

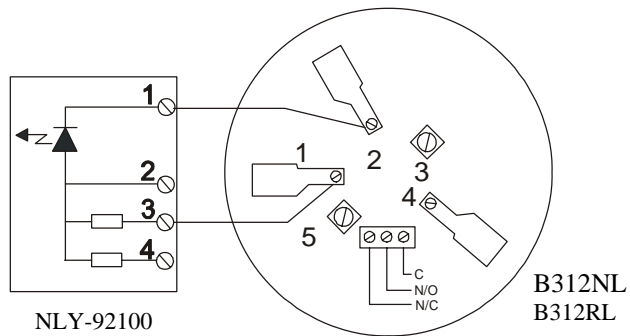
Operating voltage	8,5 ... 32 VDC
Alarm voltage	Max. 15 VDC
Standby current	1 µA (does not include detector current)
Maximum permissible alarm current	51 mA
Esmi product code	06715451

Electrical installation

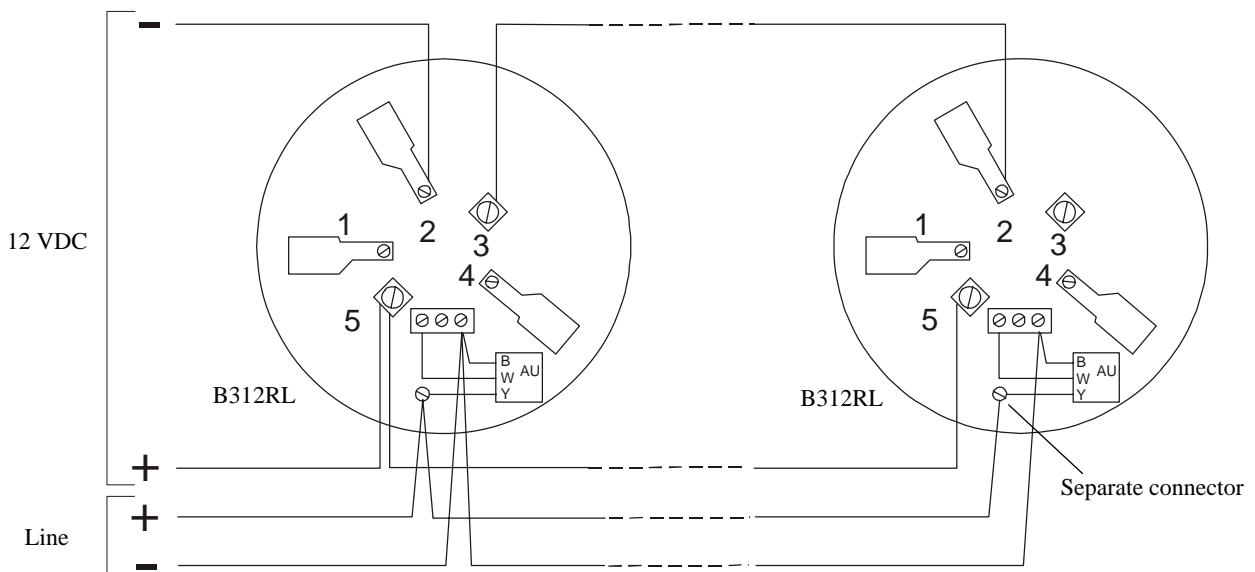
Loop connection



Remote indicator connection



Connection of the B312RL base



AU = Address unit, B = blue, W = white, Y = yellow