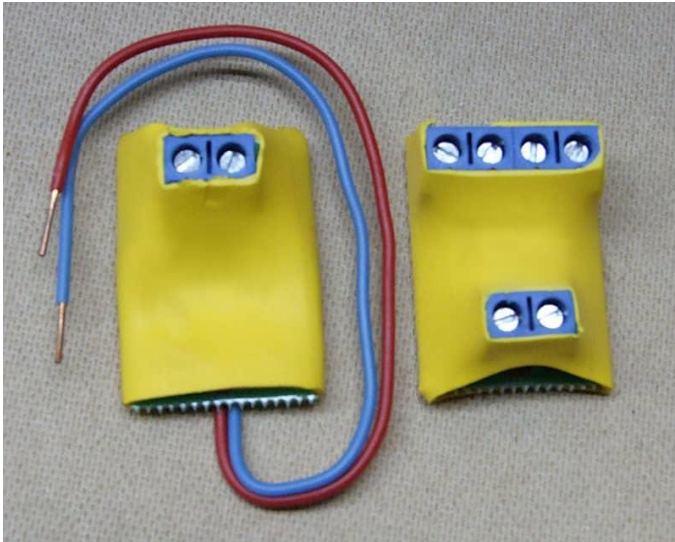


BOE End-of-Line Device (Termination Module)



The BOE End-of-Line Devices (EOLD) of a fire alarm loop are intended to connect dry contact outputs to the protected inputs of input-output devices, the fire alarm control panel, automatic fire suppression systems, etc. The BOE End-of-Line Device provides EOL termination when the terminating field device does not have integral EOL termination capability.

The BOE EOLDs are pre-built end-of-line resistor modules with quick connect terminals. Each device includes a printed circuit boards wrapped in heat-shrinkable tubing with openings that provide access to terminal screws.

The BOE EOL devices are designed to make the installation of EOL resistors more efficient than traditional methods. They are recommended to use when installing I/O devices.

Features

- Suitable for installation in small enclosures
- Easy device installation, that is particularly important for working at heights and in hard-to-reach places
- Decrease in time for commissioning and maintenance

Technical Data

Mechanical

Dimensions, mm: 32 L x 23 W x 14 H

Weight ≤ 50 g

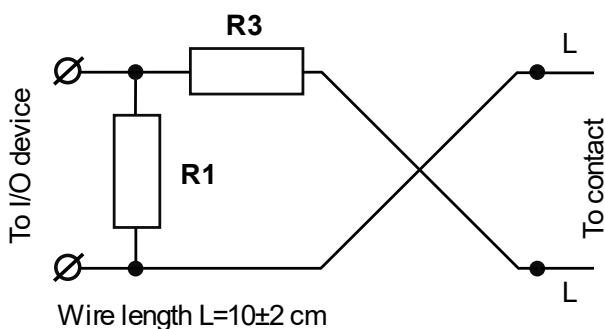
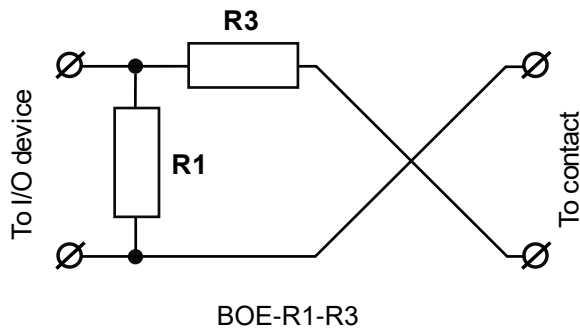
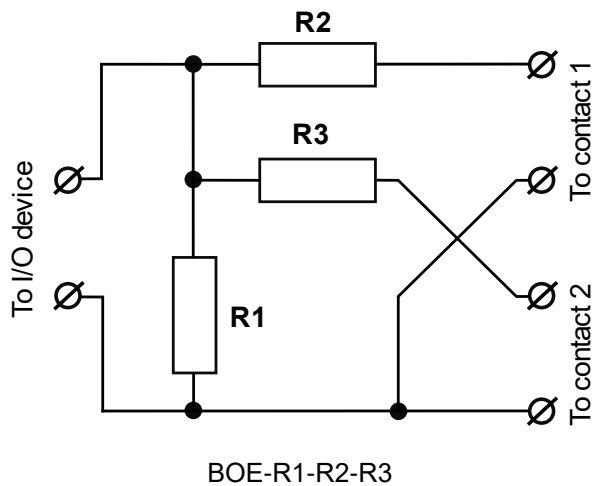
Environmental

Operating temperature -10 °C to +65 °C

Humidity 0 - 95 % (no icing/condensation)

Average service life 10 years

Figure 1. End-of-Line Device version electrical diagram



Electrical description

The purpose of EOL resistors is to allow the control panel to supervise the field wiring for open or short circuit conditions.

The EOL device connects to the Input channel on an I/O device and to a field contact.

The BOE End-of-Line Device designation for ordering purposes:

BOE-R1-R2-R3,

where R1, R2, R3 – resistor values in the BOE EOLD electrical diagram (fig. 1).

The resistor values depend on the types of I/O devices and the FACP.

The BOE-R1-R2 modification provides a R1 K Ω resistor in parallel (allows the open circuit detection) and a R2 K Ω resistor in series (allows short circuit detection) to provide the appropriate resistance for line fault detection. The BOE-R1-R2-R3 modification provides a R1 k Ω resistor in parallel and a R2 k Ω and R3 k Ω resistor in series.

Examples of designation of BOE EOLD modification for ordering:

BOE-10-6,8

BOE -10-1-6,8

BOE -10-1

BOE -10-1-4,7

NOTE: For orders from 50 pcs, resistors with values calculated for a specific fire alarm system can be installed on the EOLD circuit printed boards.

Installation

Due to the compact size, the EOL Device can be fit inside devices or junction boxes. The small size and the light weight of the device enable it to be installed without the need to be rigidly mounted.

The information in this document is subject to change or update without notice.



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