

ProReact Digital End-of-line Unit (EOLU-EN)

Specifications and installation instructions

Contents:

Important Guidelines	Page 3
General Overview	Page 4
Product Features	Page 4
Technical Data	Page 4
Typical System Configuration	Page 5
Mounting the EOLU-EN	Page 6

Important Guidelines

Please read this instruction leaflet thoroughly before commencing installation.

- ✓ Install the ProReact End-of-Line Unit (EOLU-EN) accordingly to meet local and country installation requirements.
- ✓ The EOLU-EN must be installed in accordance with BS 5839-1:2017 (or country equivalent) and IEC 60364 and Authorities Having Jurisdiction.
- ✓ Ensure the product is installed, commissioned and maintained by qualified professionals according to good engineering practices and who have received sufficient training on the unit
- ✓ Only use the ProReact EN Digital LHD Cable with the ProReact EOLU-EN
- ✓ Test the digital LHD cable on the reel, before installation and after installation but before connecting to the EOLU-EN, using a multimeter.
- ✓ Ensure the maximum ambient temperature rating of the EOLU-EN will not be exceeded during storage or normal operating conditions.
- ✓ Ensure any cable glands used are tightened to form a secure and moisture proof seal around the detection cable.



Do not connect lengths of linear heat detection cable in 'T' connections or spurs.



Do not paint the EOLU-EN



Do not place the detection cable under excessive tension or crush the cable by over-tightening of the cable glands

General Overview

The ProReact Digital End-of-Line Unit (EOLU-EN) has been approved to EN54-28:2016 for use with the ProReact Digital Sensor Control Unit (DSCU-EN) and ProReact EN Digital range of Linear Heat Detection cables. It is designed to effectively terminate up-to two zones of ProReact EN Digital LHD cable in a secure, weatherproof enclosure. Furthermore, the built in switches for testing a fault and alarm condition allow the integrity of the whole system to be functionally checked in situ, providing comprehensive testing and maintenance of the system.

With the ability to terminate up-to two zones of digital LHD cable, the EOLU-EN is ideally suited for use with the ProReact DSCU-EN, especially when used in interlock mode to prevent false alarms. In this mode, two digital LHD cables are run side-by-side and an alarm is only activated on the fire alarm control panel when both cables trigger. In this situation the EOLU-EN provides a cost and space saving over separate termination enclosures.



Product Features

- **EN54-28:2016 Approved** for use with the ProReact DSCU-EN and ProReact EN Digital LHD cables
- Provides a simple and straightforward method to carry out a functional test on the system
- Quickly simulate a fault condition
- Quickly simulate an alarm condition
- Secure, weatherproof enclosure
- Supplied with 2 IP67 rated cable glands

Technical Data

Construction:	IP66 rated enclosure supplied with 2 IP67 rated cable glands
Dimensions:	W94mm x L94mm x D57mm (not including cable glands)
Approvals:	EN54-28:2016
Environmental Group:	II
UL Model Designation:	EOLU-EN
UL File No:	S36157
Thermocable Part No:	A1398
Terminal Blocks:	
... end-of-line resistor	2x 5mm Rising Clamp
... LHD cable	2x removable header 5mm Rising clamp
Ambient temperature rating:	-35°C to +55°C

Typical System Configuration

The ProReact Digital End-of-Line Unit (EOLU-EN) is intended to be installed at the end of a zone of ProReact EN Digital LHD cable (see figure 1 for details). Two end-of-line resistors, one for each zone, are provided with the ProReact DSCU-EN. These should be securely screwed into the end-of-line resistor terminals on the EOLU-EN PCB (see figure 2 for details). The ProReact EN Digital cable should be screwed into the Zone 1 or Zone 2 terminals as required (see figure 2 for details) and the

cable gland tightened (avoid excessive tightening) around the cable to create a secure, waterproof connection. To simulate an alarm, press and hold the push switch for the corresponding zone until the DSCU-EN (and fire alarm control panel) triggers an alarm. To simulate a fault condition, toggle the test fault switch down. The DSCU-EN (and fire alarm control panel) should register a fault condition. Return the toggle switch to the normal position to clear the fault.

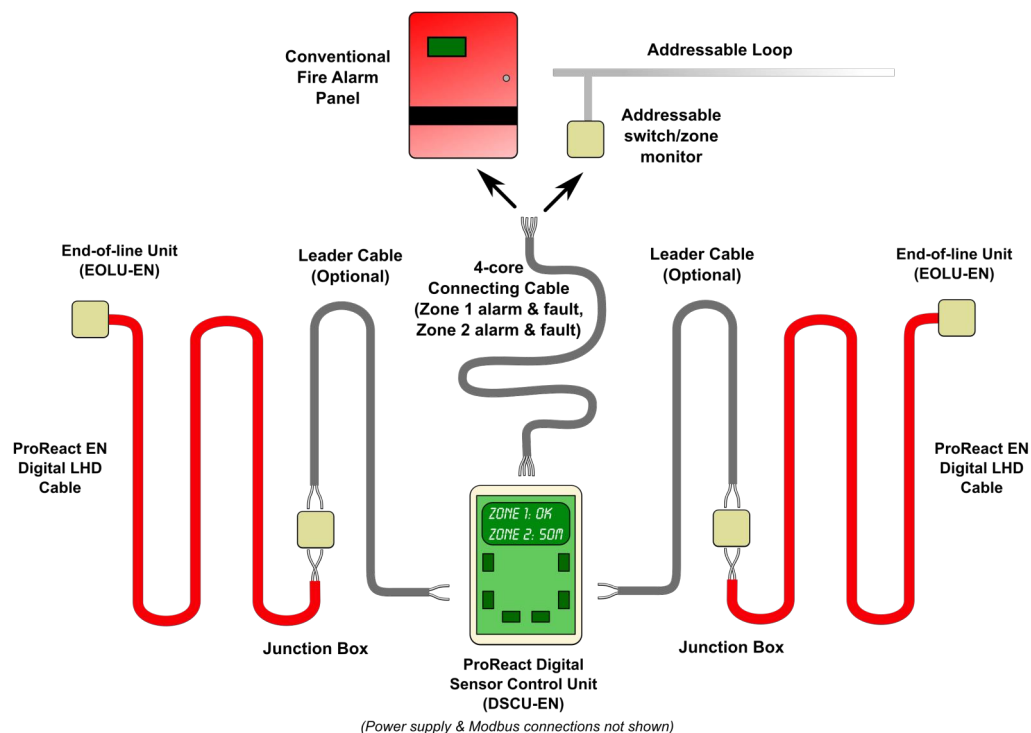


Figure 1. Typical wiring configuration for ProReact DSCU-EN, EN Digital LHD cable and EOLU-EN

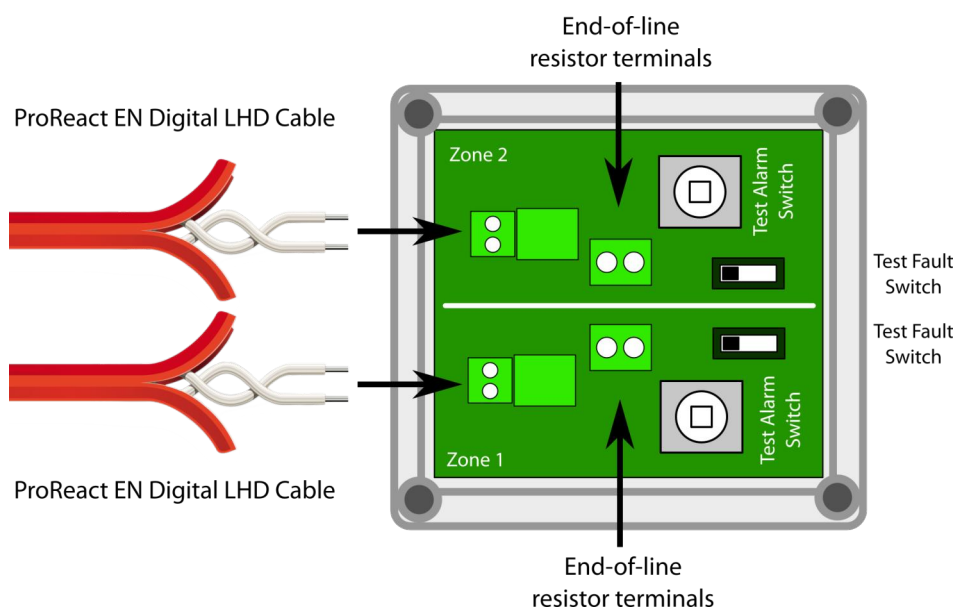


Figure 2. Detailed wiring diagram for the ProReact EOLU-EN

Mounting the EOLU-EN

The ProReact Digital End-of-Line Unit (EOLU-EN) is intended to be wall mounted. 4 holes should be drilled according to the mounting dimensions shown in figure 3. The corresponding mounting holes on the EOLU-EN are found by removing the lid and are located in the same place where the lid screws fix into the base. Suitable screws for the type of wall the EOLU-EN is to be mounted on will need to be provided for separately. The minimum head diameter is 5.5mm and the maximum head diameter is 8mm. The maximum screw thread diameter is 5mm.

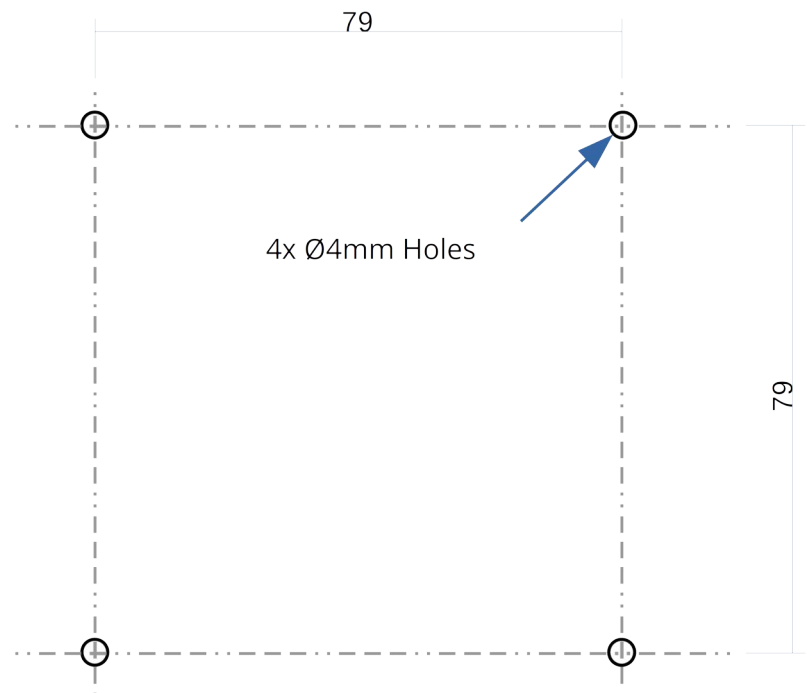


Figure 3. Mounting dimensions for the EOLU-EN