## Features:

- The output voltage range 44-57 V DC
- Power from PoE switch
- The PoE IN input compliant with the IEEE802.3af/at standard
- The PoE OUT output compliant with the IEEE 802.3af standard
- Increases Ethernet and PoE power range by 100 meters
- Designed for 10 Mbit/s and 100 Mbit/s network
- Pole mounting option (requires the OZB2 adapter - **optional accessory**)

- LED optical signalization
- protections:
  - surge protection (PoE input)
  - OLP overload protection
  - SCP short circuit protection
  - IP56 hermetic enclosure
- warranty – 1 year from the production date

## Example of use.
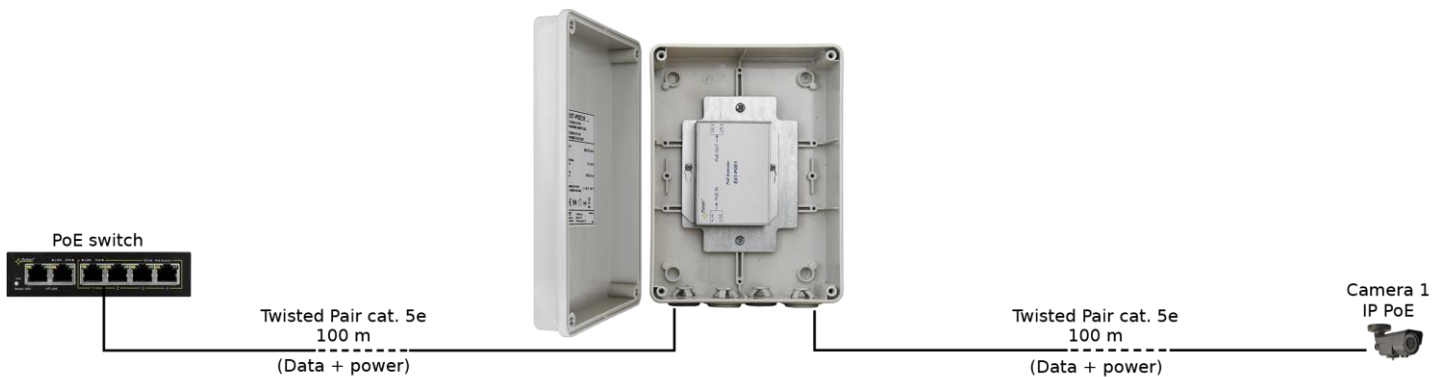


Extension of the IP PoE camera range by 100 m

## 1. Technical description.

### 1.1. General description.

The **EXT-POE1H extender** is a device designed to increase the PoE and Ethernet range by additional 100 meters using UTP Cat. 5/5e cable. The Extender can be powered using a PoE switch or another PoE-compliant device (PoE IN input). The output voltage and data are available at the PoE OUT output designed for connecting cameras or other IP devices compliance with IEEE802.3af.
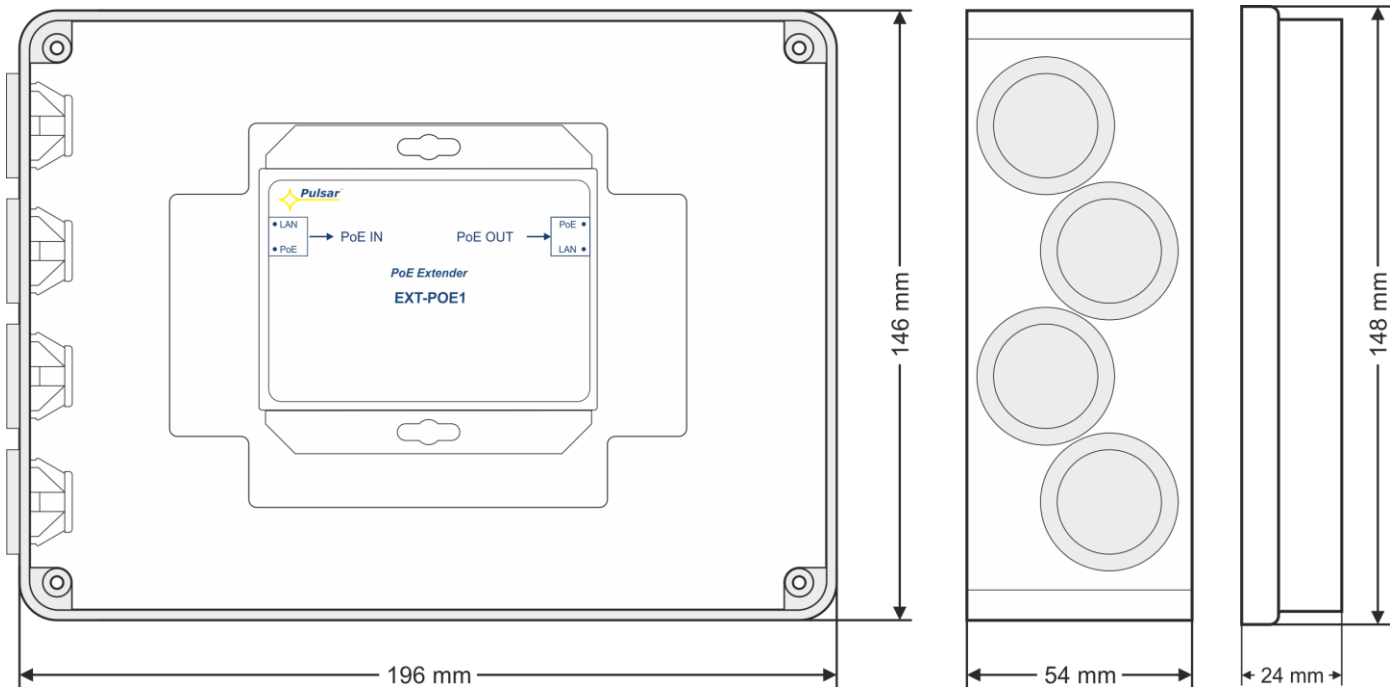
## 1.2 Description components and connectors.



Fig. 1. View of enclosure.

**Table 1. (See fig. 2)**

| Element no.<br>(Fig. 2) | Description |
|---|---|
| [1] | **The PoE IN**-input port |
| [2] | LED **LAN** (yellow) |
| [3] | LED **PoE** (green) |
| [4] | **PoE OUT 1/2** - output ports |
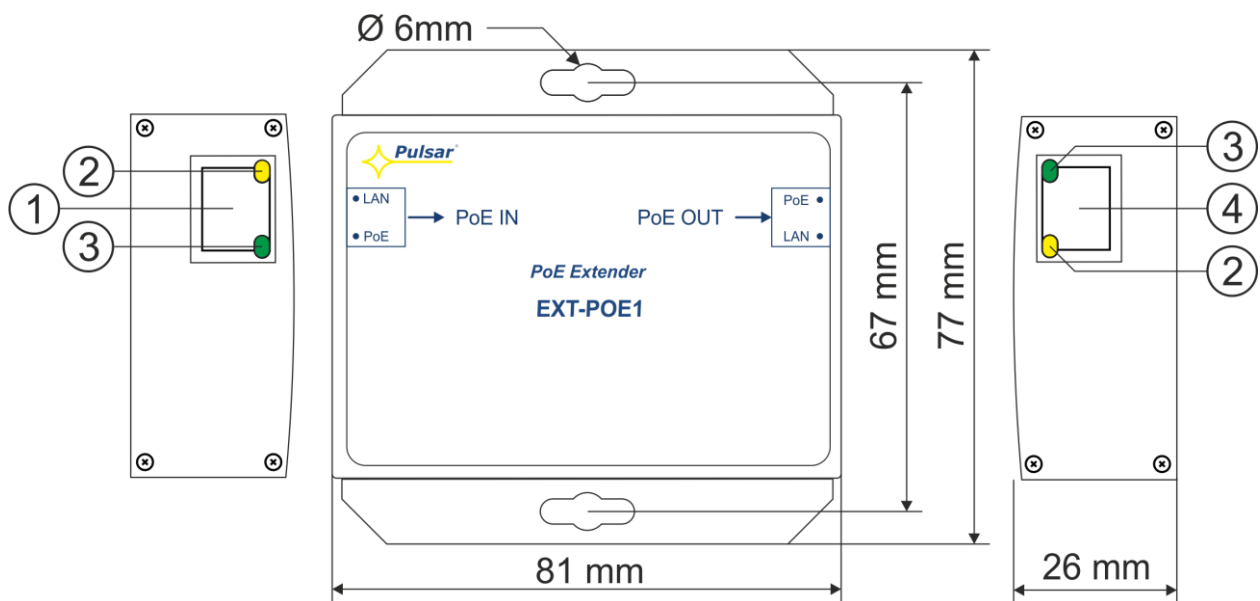


Fig. 2. The view of the extender.

### 1.3. Technical parameters.
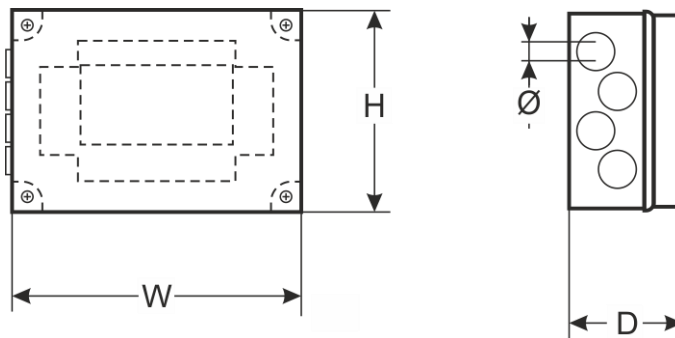


**Table 2.**

| | |
|---|---|
| Supply voltage | compliant with 802.3af/at (44÷57 V DC) |
| Current consumption by PSU systems | <30 mA |
| Module power | 15,4 W max. |
| Output voltage | compliant with 802.3af |
| Output current | 0,3 A |
| Overload protection OLP<br>Short circuit protection SCP | 150 % ÷ 200 % of nominal output current, automatic recovery |
| LED operation indication | Yellow **LAN** LED - indicating the LAN connection status<br>Green **PoE** LED - presence of input/output voltage |
| Range of operating temperatures | -25 ℃÷50 ℃ |
| External dimensions | W=198, H=148, D=78 [+/- 2 mm] |
| Ø cables | 6÷13 mm |
| Connectors: - IN/OUT PoE | RJ45 8P8C |
| Net/gross weight | 0,55 kg / 0,62 kg |
| Storage temperature | -25 ℃...+60 ℃ |

## 2. Installation.

### 2.1. Requirements.

The extender should be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for low-voltage installations. The device should be mounted in a place protected from weather conditions and direct sun, with temperatures from -25 °C to + 50 °C. Thanks to the use of the OZB2 mounting plate (optional accessory), it is possible to mount the device on a pole (not included).

The device is designed for a 10 Mbit/s or 100 Mbit/s Ethernet network (the so-called Fast Ethernet). However, it cannot be used in 1Gbit/s networks (the so-called Gigabit Ethernet). The minimum category cable recommended to connect the extender and the network device is UTP Cat. 5 cable. In the case of an external installation, it must be resistant to UV radiation.

### 2.2. Installation procedure.

Mount device in selected location and lead connecting wires. Wires must be pushed through cable glands, then connectors should be tightened. Connect the network cables (Ethernet) to the RJ45 connectors marked PoE IN and PoE OUT. Connect the RJ45 cable from the Ethernet switch to the PoE IN jack compatible with the PoE standard, taking into account the current efficiency of the output port. Plug the device, e.g. an IP camera, into a PoE OUT socket. After installing and checking the correctness of the device operation, the enclosure should be closed.

## 3. Maintenance.

Any and all maintenance operations may be performed following the disconnection of the power supply from the power network. The power supply does not require any specific maintenance procedures, however, in the case of significant level of dust, it should be cleaned with compressed air.

**WEEE MARK**
**According to the EU WEE Directive – It is required not to dispose of electric or electronic waste as unsorted municipal waste and to collect such WEEE separately.**