## Equipment features:

- Voltage adjustment range 48-57 V DC
- Power supply from PoE switch
- PoE input: PoE IN - compliant with IEEE802.3af/at
- PoE output: PoE OUT 1-3 - compliant with IEEE802.3af
- Increases Ethernet and PoE power range by 100 meters
- Supports 10/100/1000 Mb/s networks

- LED optical signalization
- Protections:
    - OLP overload protection
    - SCP short circuit protection
- Warranty – 2 years

## 1. Technical description.

### 1.1. General description.

**EXT-POEG2 extender** is a device designed to extend transmission distance of PoE power and Ethernet data via UTP cat. 5/5e twisted pair cable to next 100m. Extender is powered from PoE switch or other PoE-compliant device (PoE IN input). Output voltage and data are available at PoE OUT 1 – 3 outputs, to which cameras or other IP devices using PoE power should be connected. Maximum load current is 0.4A (0.3A/port) and power transmission is realized on pairs 1/2 (+) 3/6(-).

### 1.2. Specifications.

**Table 1. Specifications**

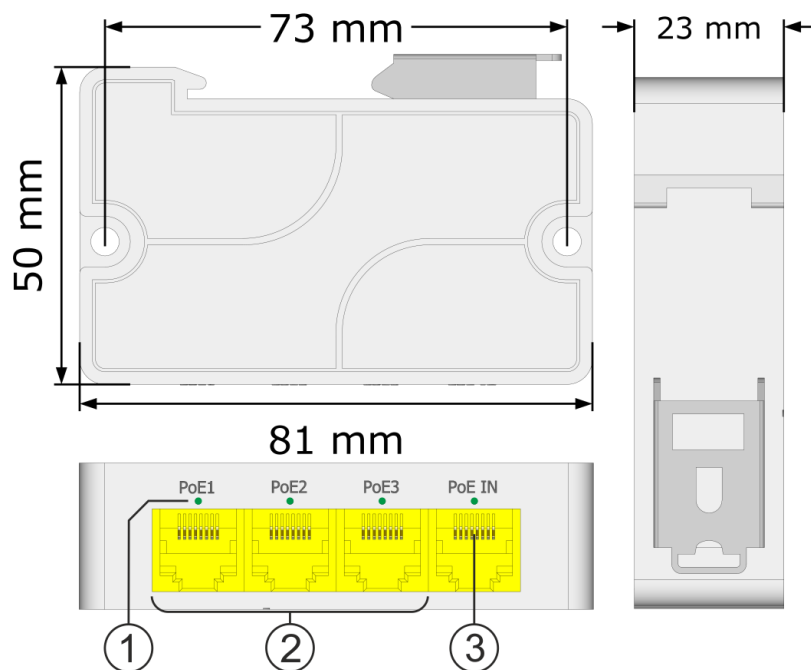| | |
|---|---|
| **Power supply** | Compliant with 802.3af/at (48÷57 V DC) |
| **Current consumption by PSU module systems** | <20mA |
| **Module power** | 20 W max. |
| **Ports** | 4 ports 10/100/1000 Mb/s (1 x PoE IN + 3 x PoE OUT) with auto negotiation of connection speed, auto MDI/MDIX crossover |
| **Output voltage** | Compliant with 802.3af |
| **Output current** | 0,3A/port (∑=0,4A max.) |
| **PoE IN input power supply pairs** | **1/2 (+) 3/6(-)**<br>**4/5 (+) 7/8 (-)** |
| **PoE OUT 1 – 3 output power supply pairs** | **1/2 (+) 3/6 (-)** |
| **Overload protection (OLP)**<br>**Short circuit protection (SCP)** | 105% ÷ 150% of power supply, automatic recovery |
| **LED operation indication** | LEDs (green) – indicating the LAN connection status (of individual outputs):<br>**On** - connected device 10/100/1000 Mb/s<br>**Blinking** - data transmission |
| **Operating conditions** | -10ºC – 40ºC |
| **Dimensions (LxWxH)** | 50 x 23 x 81 [+/- 2mm] |
| **Installation** | For TH35 rail or mounting screws x2 (71mm spacing) |
| **Connectors:**<br>**- PoE input/output** | RJ45 8P8C |
| **Net/gross weight** | 0,05 / 0,06 [kg] |
| **Storage temperature** | -20ºC...+60ºC |
| **Declarations, warranty** | CE, RoHS, 2 years |

Fig. 1. A schematic drawing of the device.

**Table 2. Description of components and connectors.**

| Element no. [Fig. 1] | Description |
|---|---|
| [1] | LED (green) |
| [2] | **PoE OUT 1 – 3** - outputs |
| [3] | **PoE IN** - input |

**Example of connection:**
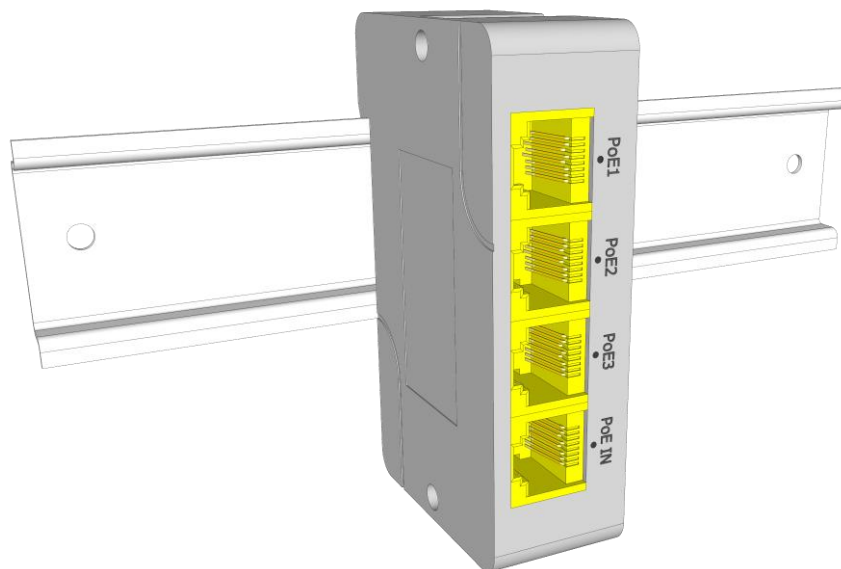


## 2. Installation.

### 2.1. Requirements.

Extenders is to be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for low-voltage installations. Unit should be mounted in confined spaces, in accordance, with normal relative humidity (RH=90% maximum, without condensing) and temperature from -10°C to +40°C.

Device is designed for operation in 10 Mb/s, 100 Mb/s or 1000 Mb/s (so-called **Gigabit Ethernet**) Ethernet networks. Connections between the extender and the network device must be made using a min. UTP CAT.5e.

## 2.2. Installation procedure.

Connect network (Ethernet) cables to RJ45 connectors marked: PoE IN, PoE OUT. Cable from PoE-compliant Ethernet switch connect to PoE IN input, taking into account the current capacity of the output port. To PoE OUT 1 – 3 outputs connect devices, e.g. IP cameras.

## 3. Maintenance.

The unit requires no special maintenance.