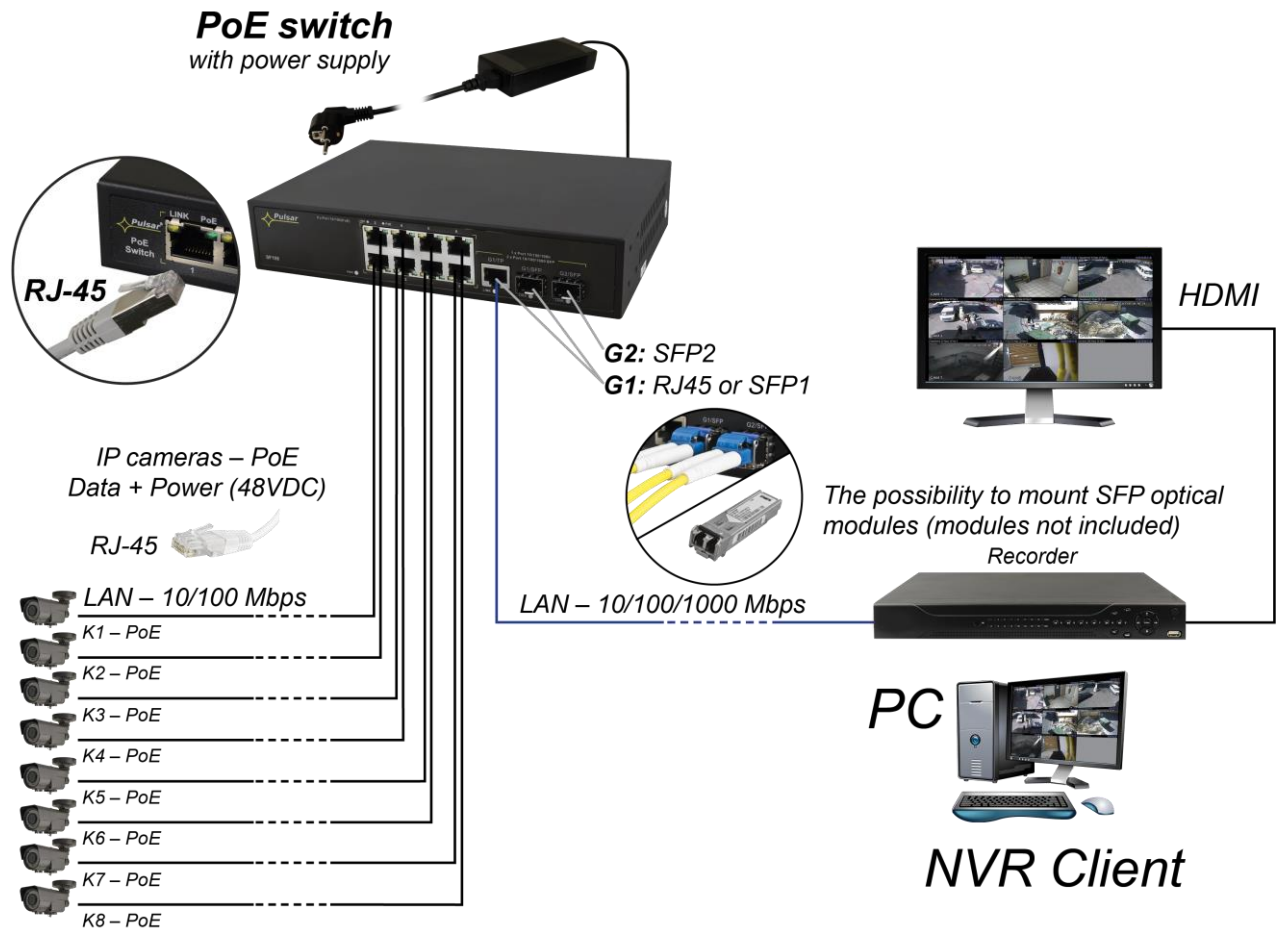


### Features:

- Switch 10 ports
- 8 PoE ports 10/100Mb/s, (1÷8 ports) (data and power supply)
- 1 port 10/100/1000 Mb/s (G1/TP port) (UpLink)
- 2 ports 10/100/1000Mb/s SFP (port G1/SFP, G2/SFP)
- 15,4W for each PoE port, supports devices complaint with the IEEE802.3af standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- LED indication
- The PSD 480250 48VDC/2,5A/120W max. power supply desktop type included
- Additional assembly elements
- warranty – 2 year from the production date

### Example of use.



## 1. Technical description.

### 1.1. General description.

SF108 is a 10- port PoE switch designed to supply IP cameras operating in IEEE 802.3af standard. Automatic detection of any devices powered in the PoE standard is enabled at the 1 – 8 ports of the switch. The G1/TP ports is used for connection of another network device via RJ45 connector. The switch is fitted with SFP slots; the use of fiber optic module (GBIC) allows fiber optic transmission. The operating status of the device (described in the table below) is displayed on the LED display on the front panel. The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

## 1.2. Block diagram.

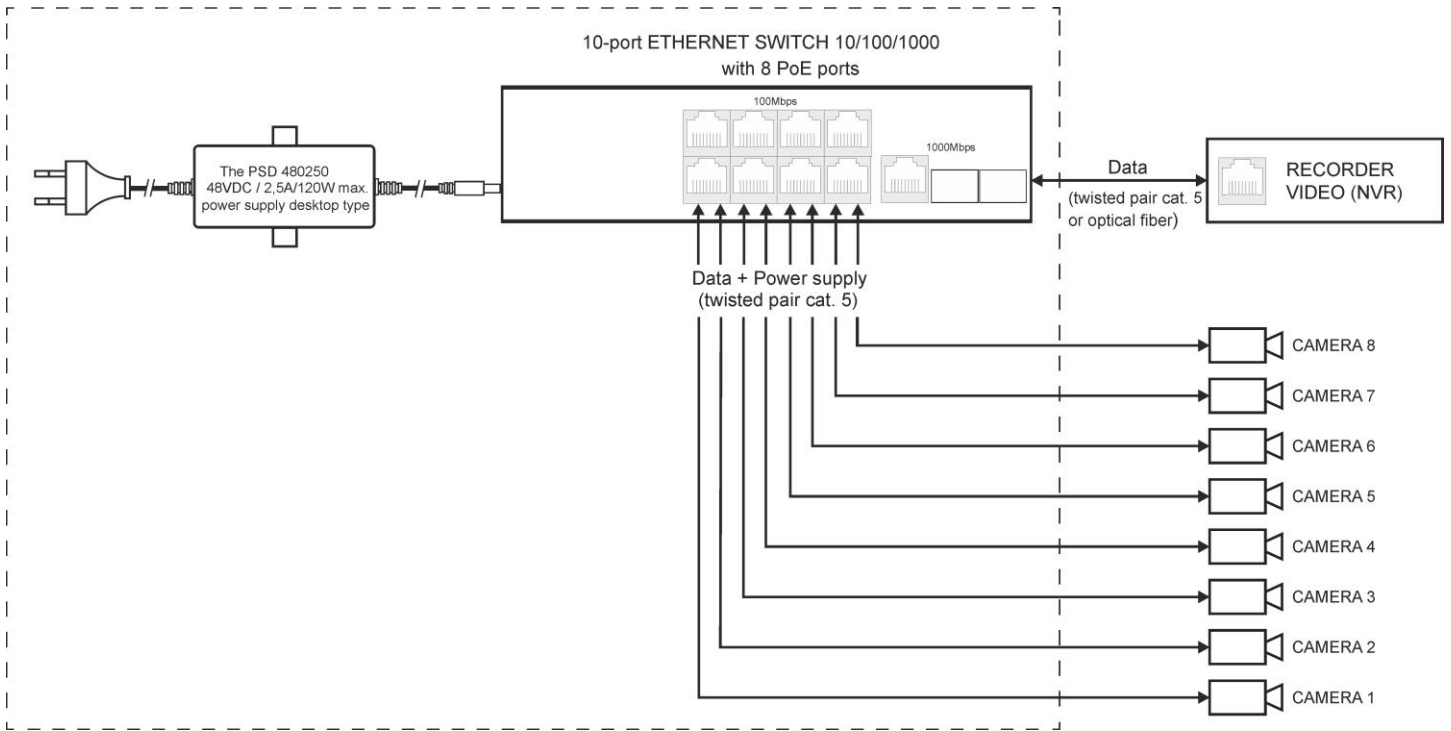


Fig. 1. Block diagram.

## 1.3. Description of components and connectors.

Table 1. (see Fig. 2)

Element no. (Fig. 2)	Description
[1]	8 x PoE port (1÷8)
[2]	1 x UPLINK port (G1/TP)
[3]	2 x UPLINK port (G1/SFP, G2/SFP)
[4]	Power Socket of the 48VDC

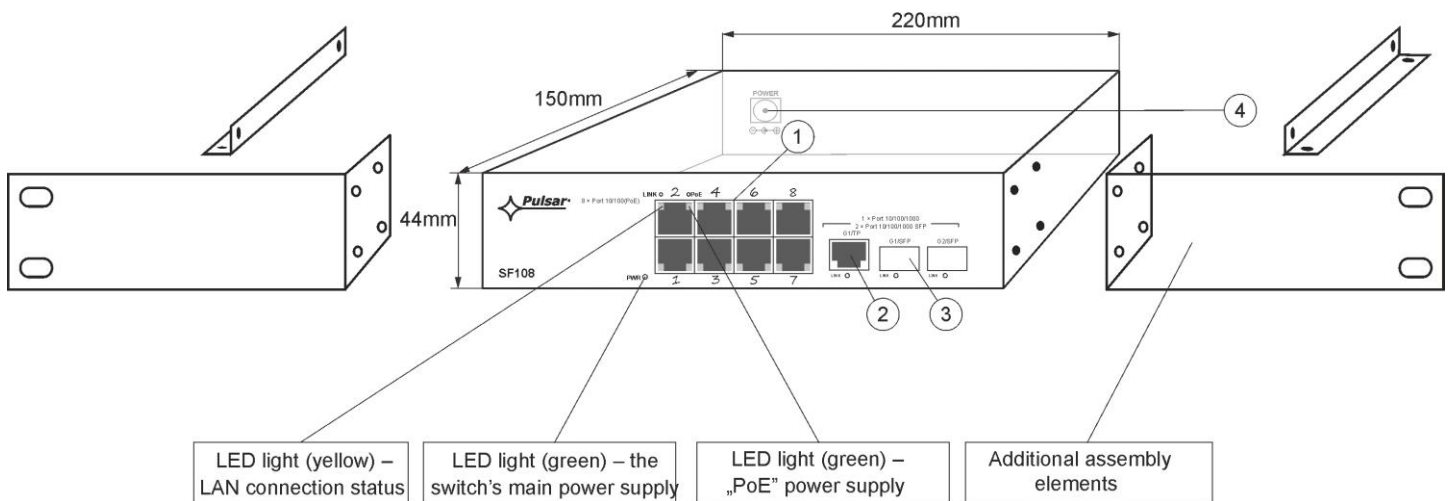


Fig. 2 The view switch'a.

## 1.4. Technical parameters (table 2.)

Table 2.

<b>Ports</b>	8 x PoE (10/100Mb/s) (RJ-45) 1 x UPLINK (10/100/1000Mb/s) (RJ-45) 2 x UPLINK (10/100/1000Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
<b>PoE power supply</b>	IEEE 802.3af (1+8 ports), 48VDC / 15,4W at each port * Used pairs 4/5 (+), 7/8 (-)
<b>Protocols, Standards</b>	IEEE802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
<b>Forwarding rate</b>	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port
<b>Bandwidth</b>	1,6Gbps
<b>Transmission method</b>	Store-and-Forward
<b>Optical indication of operation</b>	Switch power supply Link PoE Status
<b>Power supply</b>	90 ÷ 264VAC 50÷60Hz / 0,6A 230VAC max. the PSD 480250 48VDC/2,5A/120W max. power supply desktop type
<b>Operating conditions</b>	temperature -10°C ÷ 40°C, relative humidity 20% - 90%, no condensation
<b>Dimensions (W x H x D)</b>	220 x 44 x 150 [mm]
<b>Additional equipment</b>	plate to be fixed surface, bracket for Rack 19"
<b>Net/gross weight</b>	1,73/1,97kg
<b>Protection class EN 60950-1:2007</b>	I (first)
<b>Storage temperatur</b>	-20°C ÷ 60°C
<b>Declarations</b>	CE

\* The given value of 15,4W per port is the maximum value. The total power consumption should not exceed 96W when all PoE ports are being used.

## 2. Installation.

### 2.1. Requirements.

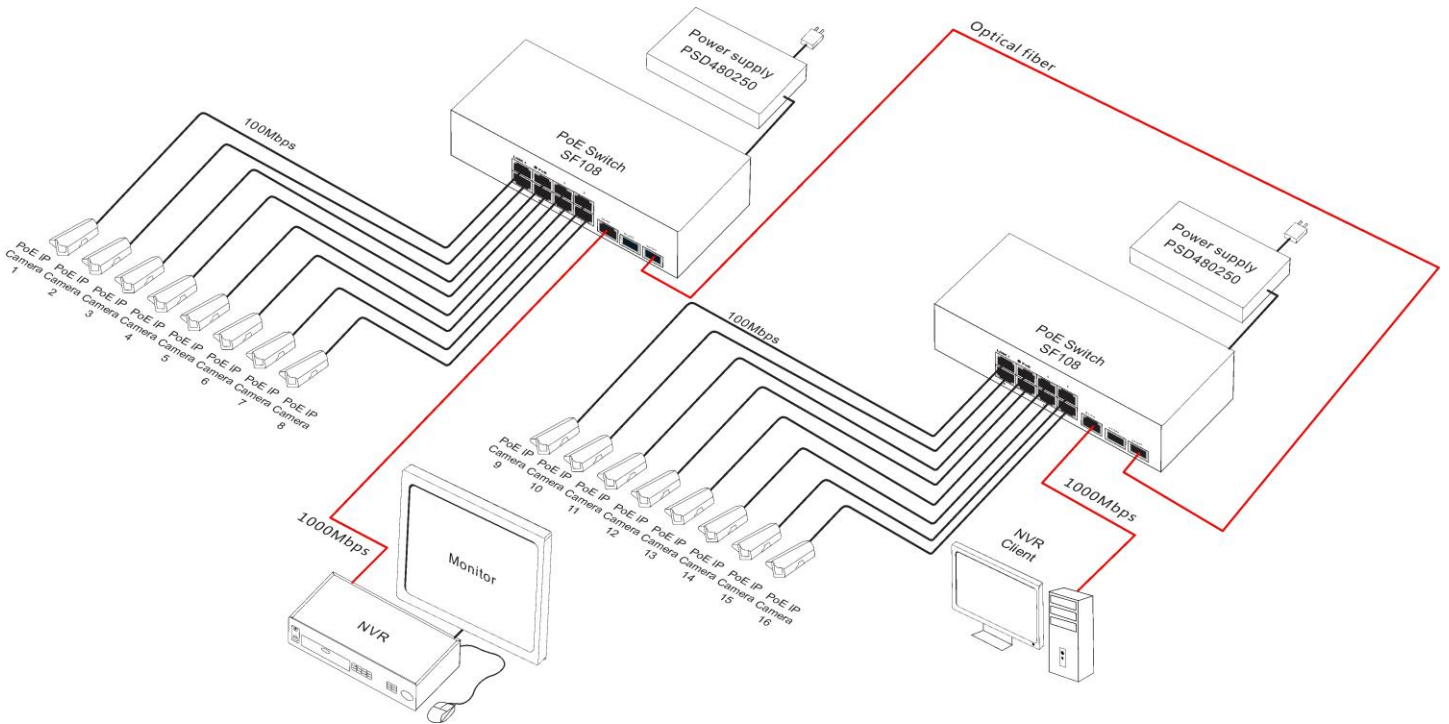
The unit should be mounted in confined spaces, in accordance with the 2nd environmental class, with normal relative humidity (RH=90% maximum, without condensation) and temperature from -10°C to +40°C. Ensure the free flow of air around the unit. The PSU shall work in a vertical position that guarantees sufficient convectional air-flow through ventilating holes of the enclosure.

The switch load balance should be done before installation. The given value of 15,4W per port is the maximum value referring to a single output. The total power consumption should not exceed 96W when all PoE ports are being used. The increased demand for power is particularly evident in the case of cameras with heaters or infrared illuminators - when launching these features, the power consumption increases rapidly, which may adversely affect the operation of the switch. As the device is designed for a continuous operation and is not equipped with a power-switch, therefore an appropriate overload protection in the power supply circuit should be provided. The electrical system shall be made in accordance with applicable standards and regulations.

### 2.2. Installation procedure.




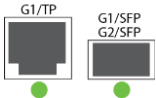
1. Connect switch to the PSD480250 48VDC power supply unit desktop type.
2. Connect the power supply to the AC 230V socket.
3. Connect the camera wires to the RJ45 connectors (PoE connectors (sockets RJ45 from 1 to 8)).
4. Connect the remaining LAN devices to RJ45 connectors (G1/TP or G1/G2 and SFP/SFP)  
**CAUTION!** G1/TP and G1/SFP connectors can not operate simultaneously
5. Check the optical indication of switch operation (see Table 3).

Connection schemes



3. Operation indication (see table 3)

Table 3. Operation indication

OPTICAL INDICATION OF THE SWITCH'S POWER SUPPLY	
<b>GREEN LED LIGHT (Power)</b> Indication of the switch's power supply	<b>PWR</b>  <b>OFF</b> – no power supply of the switch <b>ON</b> – power supply on, normal operation
OPTICAL INDICATION AT THE PoE PORTS (1÷8)	
<b>GREEN LED LIGHT (PoE)</b> Indication of the PoE power supply at the RJ45 ports	 <b>OFF</b> - no power supply at the RJ45 port (the device is not connected or not compliant with the IEEE802.3af standard) <b>ON</b> – supply <b>Blinking</b> – short-circuit or output overload
<b>YELLOW LED LIGHT (LINK)</b> The connection status of LAN devices, 10MB/s or 100Mb/s and data transmission	 <b>OFF</b> - no connection <b>ON</b> - the device is connected; 10Mb/s or 100Mb/s <b>Blinking</b> – data transmission
OPTICAL INDICATION AT THE UPLINK PORT (G1/TP, G1/SFP, G2/SFP)	
<b>GREEN LED LIGHT</b>	 <b>No light (OFF)</b> - no connection or LAN device is not connected <b>ON</b> - the LAN device is connected <b>Blinking</b> – data transmission <b>CAUTION!</b> Do not connect the device even if the slot is empty <b>CAUTION!</b> G1/TP and G1/SFP sockets can not operate simultaneously



#### WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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