

1. Technical description.

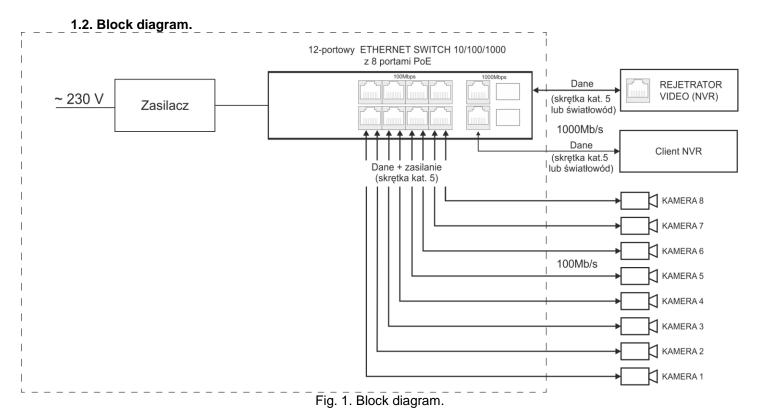
1.1. General description.

SF108 is a 12- 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 and G2/TP ports is used for connection of another network device via RJ45 connector. The switch is fitted with SFP slots (marked as G3/SFP and G4/SFP); 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.



1.3. Description of components and connectors.

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Table 1. (see Fig. 2)	
Element no. (Fig. 2)	Description
[1]	8 x PoE port (1÷8)
[2]	2 x UPLINK ports (G1/TP, G2/TP)
[3]	2 x UPLINK ports (G3/SFP, G4/SFP)
[4]	Power Socket of the 52 V DC
[5]	Additional mounting elements

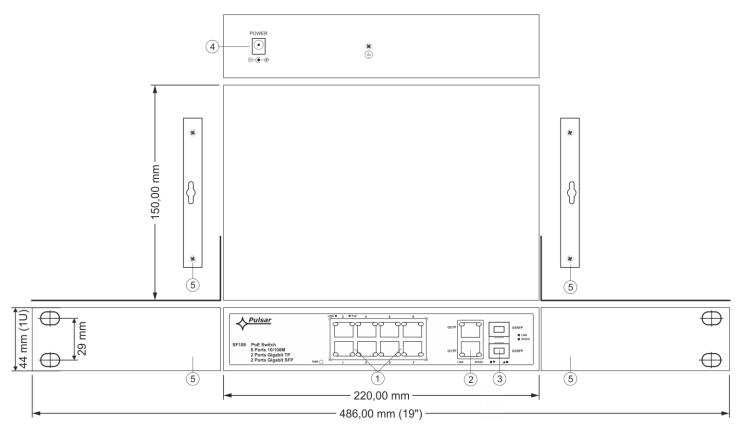


Fig. 2. The view switch'a.

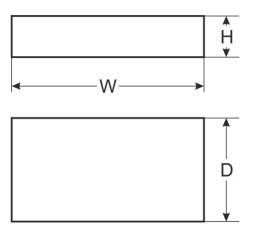


Table 2.

Ports	8 x PoE (10/100 Mb/s) (RJ-45) 2 x UPLINK (10/100/1000 Mb/s) (RJ-45) 2 x UPLINK (1000 Mb/s) (SFP) with connection speed auto-negotiation and MDI/MDIX Auto Cross)
PoE power supply	IEEE 802.3af/at (porty 1÷8), 52 V DC / 30 W at each port *
Protocols, Standards	IEEE 802.3, 802.3u, 802.3x CSMA/CD, TCP/IP
	10BASE-T: 14880pps/port
Forwarding rate	100BASE-TX: 148800pps/port
Bandwidth	1,6 Gb/s
Transmission method	Store-and-Forward
Optical indication of operation	Switch power supply Link PoE Status
Power supply	PoE: 48-57 V DC; 2,5 A max.
Self-power consumption	5 W max.
Operating conditions	Temperature -10°C ÷ +40°C, Relative humidity 20% - 90%, no condensation
Dimensions	W=220, H=44, D=150 [+/- 2mm]
Additional equipment	plate to be fixed surface, bracket for RACK 19"
Net/gross weight	0,99 / 1,20 [kg]
Storage temperatur	-20°C ÷ +60°C
Declarations	CE

* The given value of 30 W per port is the maximum value. The total power consumption should not exceed 120 W.

2. Installation.

2.1. Requirements.

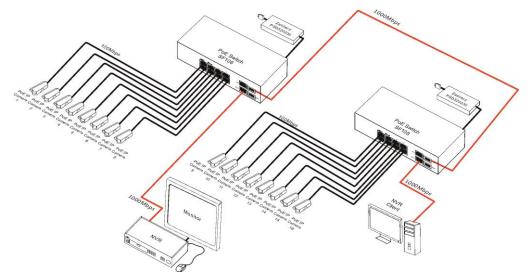
Unit should be mounted in confined spaces with normal relative humidity (RH=90% maximum, without condensing) and temperature from -10°C to +40°C. Ensure the free flow of air around the unit. The PSU shall work in a vertical position that guarantees sufficient convectional air-flow through ventilating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

The switch load balance should be done before installation. Depending on application, appropriate power supply should be selected (recommended 52 V; 1,25 A). The given value of 30 W per port is the maximum value referring to a single output.

The total power consumption should not exceed 120 W and depends on the current efficiency of the PSU, taking account of the power intake for the own needs of the device. 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 power supply unit.
- 2. Connect the power supply to the 230 V 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 or SFP sockets (G1/TP and G1/SFP or G3/ SFP and G4/SFP)
- 5. Check the optical indication of switch operation (see Table 3).



3. Operation indication (see table 3)

Table 3. Operation indication

OPTICAL INDICATION OF SWITCH'S POWER SUPPLY				
GREEN LED LIGHT (Power) Indication of switch's power supply PWR		OFF – no power supply of the switch ON – power supply on, normal operation		
OPTICAL INDICATION AT PoE PORTS (1÷8)				

GREEN LED LIGHT (PoE) Indication of PoE power supply at the RJ45 ports	 OFF – no power supply at the RJ45 port (the device is not connected or not compliant with IEEE 802.3af/at standard) ON – supply Blinking - short-circuit or output overload
YELLOW LED LIGHT (LINK) The connection status of LAN devices, 10 MB/s or 100 Mb/s and data transmission	OFF – no connection ON – device is connected; 10 Mb/s or 100 Mb/s Blinking – data transmission

OPTICAL INDICATION AT UPLINK PORT (G1/TP, G2/TP)

YELLOW LED LIGHT (SPEED)	G2/TP G4/SFP G1/TP G3/SFP	OFF – connection 10 Mb/s or 100 Mb/s ON – connection 1000 Mb/s
GREEN LED LIGHT (LINK)	G2/TP G4/SFP G1/TP G3/SFP	OFF – no connection ON – device is connected Blinking - data transmission

OPTICAL INDICATION AT UPLINK PORT (G3/SFP, G4/SFP)			
GREEN	G2/TP G4/SFP	OFF – no connection	
LED LIGHT (G3/SFP)	G1/TP G3/SFP	ON – device is connected Blinking – data transmission	
GREEN	G2/TP G4/SFP	OFF – no connection	
LED LIGHT (G4/SFP)	G1/TP G3/SFP	ON – device is connected Blinking – data transmission	

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.

