

IPB-5-10A-M2

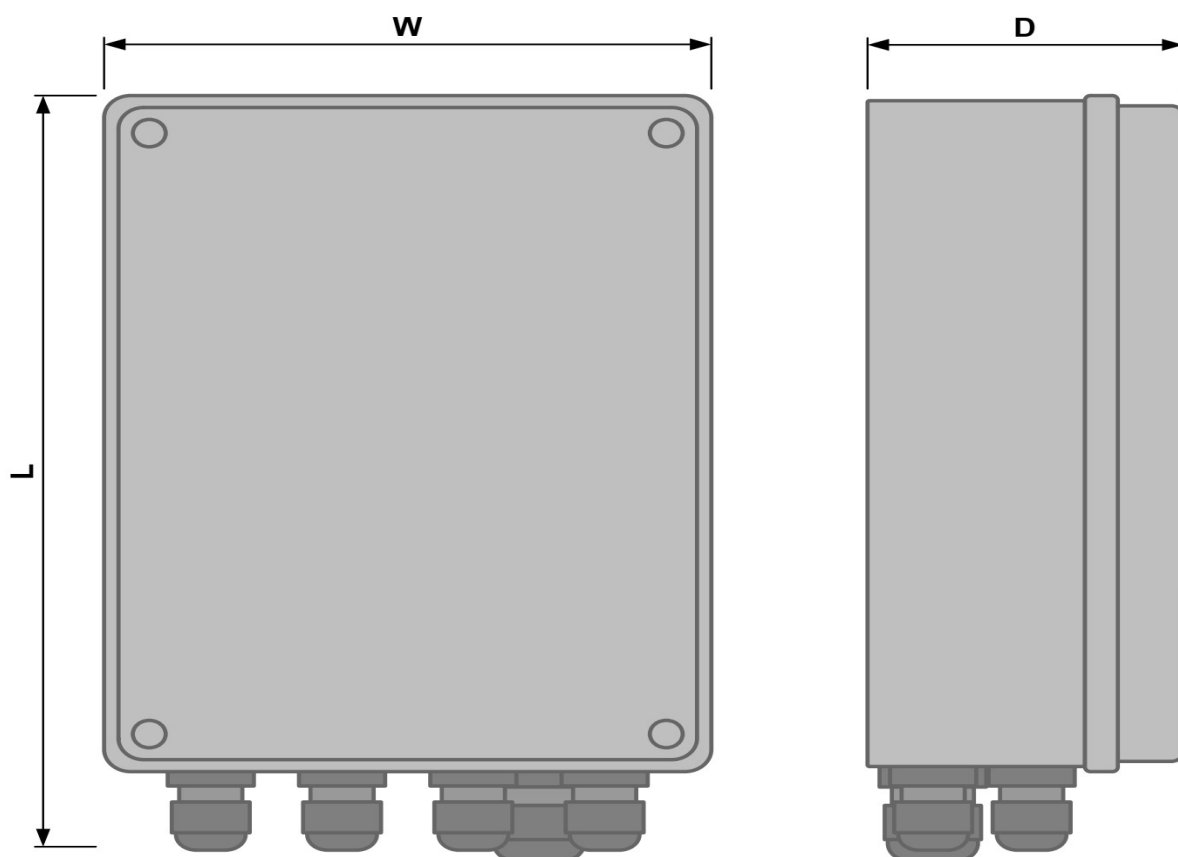
Set for up to 5 IP cameras in ABOX-M2 outdoor housing
10/100 Mbps PoE switch 5xPoE + 1xUplink
(PoE power on all pairs)

INSTRUCTION MANUAL

IPB-5-10A-M2 is a PoE network switch designed for use with PoE IP cameras and other network devices powered by the PoE 802.3af/at and PoE PASSIVE standards PoE power is transmitted over all cable pairs, which helps to reduce voltage drops.

In combination with the increased supply voltage of 55VDC, this allows the correct voltage to be maintained at the end of longer cables for a wider range of PoE receiver power ratings. These features are directly applicable when extending or branching lines using active IP PoE extenders.

The device is enclosed in an external housing, which is a convenient solution for protecting electronic modules and cable connections installed in outdoor conditions. High-quality plastic ensures resistance to UV radiation and other adverse weather conditions.



General view of the device

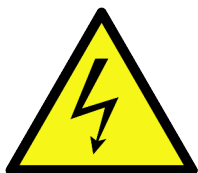
Technical Specification

LAN Ports	6 RJ45 ports 10/100Mbps (auto MDI-MDIX, auto-negotiation) 5 x PoE, 1 x UPLINK
Ports Functions	LAN 1 ... LAN 5: PoE OUT (to PoE powered devices): PASSIVE (up to 40W), 802.3af (up to 15,4W), 802.3at (up to 30W) PoE PINOUT: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) LAN6: UPLINK (without PoE) CON2 (+) (-): DC OUT: 55VDC CON1 AC_IN: AC IN: 230VAC
Output Voltage	55 VDC +/- 2%
Efficiency	93% @90W
Power	90 W
Input Voltage	190 ... 260 VAC, 50 Hz
Power Supply Input Protection	T3,15 A (Slow Blow Fuse) Surge protection
Power Supply Output Protection	3 A Overload electronic protection (after short circuit it may be necessary to restart power supply) Surge protection
Power Supply Thermal Protection	TSD (thermal shutdown) 130°C - power supply restart required
Ports Protection	LAN 1 ... LAN 6, Vin Surge protection LAN 1...LAN 5 0,75A @25°C, 0,45A @50°C Short circuit protection (power supply restart needed)
Indication	LED_AC (white) - presence of mains voltage LED_PWR (white) - presence of output voltage LED LAN 1 ... LAN 6 (green) - link and data transmission LED in RJ45 connectors LAN 1 ... LAN 5 (red) - presence of PoE power on the port PoE Jumpers (LAN 1 ... LAN 4)
Power Control	PoE OFF - jumper removed (LED inside RJ45 should be off) PoE ON - jumper installed (LED inside RJ45 should be on)
Housing Construction	ABOX-M2 enclosure Halogen-free, UV-resistant material Colour: grey (RAL7035) Cable glands: 6 x M16, 1 x M20
Assembly	Wall-mounted, mounting brackets
Ingress Protection Rating	IP56
Operating Temperature	-25 ... +50°C
Dimensions	140 x 190 x 70 mm
Weight	0,67 kg

Safety Precautions

- The installation and wiring must be performed by a competent engineer. For permanently connected equipment, a readily accessible disconnect device must be incorporated in the fixed wiring. The device must be connected to the mains supply 230 VAC 50 Hz via a specified fused connection outlet.
- Despite the fact that the enclosure of the device has a high degree of protection, it is recommended that the device should be mounted in places protected from direct influence of atmospheric factors, in particular against rain and direct sunlight.
- Since the power supply does not have a switch to isolate the mains supply, the installer is responsible for notifying the user of the means of isolating the mains supply from the device.
- When replacing fuses, use original or compatible types. The exact parameters of the fuses can be found on the inside of the device cover.

WARNING



Before installation and during maintenance make sure that the mains voltage 230VAC is disconnected

Installation

- Install the device in the selected location and connect the cables.
- Connect the 230VAC power cables to the L | N terminals of the AC_IN screw terminal block.
- UTP cables connecting the switch to network devices and PoE receivers should be terminated on both sides with **RJ-45 (8P8C)** connectors in the **T568B** standard.
- Connect **PoE receivers**, e.g. PoE IP cameras, to the **LAN 1+PoE ... LAN 5+PoE** ports. PoE receivers must be compatible with the switch's technical data table, i.e.:
 - support the 802.3af or 802.3at standard
 - support the PoE Passive 55VDC standard, where power is transmitted over **all pairs** of the cable in accordance with the polarity shown in the technical data table (PoE PINS)
- Before connecting network devices that do not support PoE to the **LAN 1+PoE ... LAN 4+PoE** ports, **be sure** to disconnect the power supply using the appropriate **PoE ON/OFF** jumper. If the red LED inside the port is lit, this indicates that PoE power is present. It is not possible to disconnect the PoE power supply on the **LAN 5+PoE** port.
- Connect a network device that does not require PoE power, e.g. a recorder, to the **LAN 6** port.
- Switch on the 230VAC power.
- After checking that the device is working properly, close the enclosure.

Operation Indication

- LED_AC (white) - presence of mains voltage
- LED_PWR (white) - presence of output voltage
- LED_LAN 1 ... LAN 6 (green) - link and data transmission
- LED in RJ45 connectors LAN 1 ... LAN 5 (red) - presence of PoE power on the port

WEEE MARKING



This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead such equipment must be disposed of by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment.

