

Modular lamp (three-phase voltage indicator) WN-3BK

Description

The WN-3BK is a three-phase **modular lamp (voltage indicator)** equipped with its own fuses, requiring no additional protection. The device indicates the status of the three-phase network using three LED segments, each corresponding to a single phase: L1, L2, and L3.

The WN-3BK model has three LED segment colors: L1 - yellow, L2 - green, L3 - red.

The modular housing (1 DIN module) is made of self-extinguishing plastic and is designed for mounting on a TH35 rail.

Principle of operation

- The correct voltage in a given phase is indicated by the lighting of the appropriate LED segment.
- In the event of a phase failure, the LED segment goes out.
- At reduced voltage, the LED emits less light, maintaining visibility at least up to 24V AC. Further voltage drops cause the LED to dim and turn off.



ATTENTION

If the fuse link is damaged (e.g. burnt out) or the link is not installed, the LED segment will not light up despite the presence of voltage.

For this reason, the indicator should be treated as an auxiliary device and each time, using an appropriate meter, it should be additionally checked whether there is voltage in the given circuit.

Replacing the fuse link

The WN-3BK modular lamp has built-in fuse links that can be replaced if necessary:

- Use a flat screwdriver (slot approx. 1.4 × 7.0 mm).
- Press the head of the frame and then gently turn it to the left.
- Once you remove the screwdriver, the head will lift – remove it with your fingers.
- Insert a new fuse link (100 mA, WTA 5 / 20 mm), press the head and turn it clockwise until it stops.

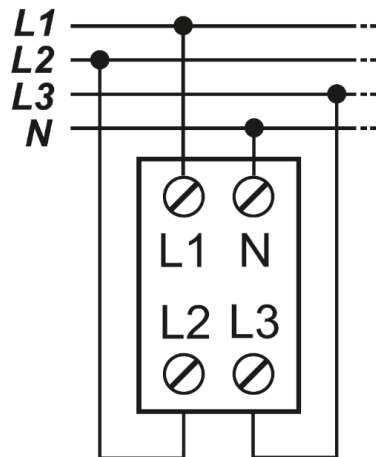
Technical data

Parameter name	Value
Rated supply voltage	3 x 400 / 230 V AC + N
Operating temperature range	-20 to 50 °C
Max power consumption	0.5 VA
Number of fuse holders	3
Fuse link type	WTA 5 x 20 mm
Protection (fuse)	Replaceable 3 x 100 mA,
Case	Modular housing (1 DIN module)
Degree of protection	IP20

Parameter name	Value
Installation	TH35 rail
Clamp type	Screw with washer
Wire stripping length	6 mm
Single-wire conductor	1.0 to 2.5 mm ²
Multi-stranded conductor (stranded wire) without ferrule	1.0 to 2.5 mm ²
Stranded wire with square crimp sleeve	1.0 to 1.5 mm ²
Stranded wire with trapezoidal crimp sleeve	0.5 to 2.5 mm ²
Tighten to maximum torque	0.5 Nm

Full technical specifications are available on the website www.pollin.pl/do-pobrania or by scanning the QR code provided in the warranty and guarantee section.

Connection diagram



Installation

The WN-3BK voltage indicator must be installed in accordance with applicable electrical installation standards and regulations. The following guidelines are intended to ensure the installer's safety and the proper operation of the device:

1. **Authorizations** - The device may only be installed by a person with appropriate qualifications and authorizations to work on electrical installations.
2. **Disconnecting the power supply** - Before starting any work, it is essential to disconnect the power supply at the distribution board and make sure that the circuit is voltage-free (e.g. using a voltage indicator).
3. **Personal Protection** - The installer should use personal protective equipment such as electrically insulating gloves and safety glasses.
4. **Mechanical installation** - The device should be mounted on a standard TH35 rail in the distribution board, ensuring stable mounting and adequate ventilation space.
5. **Connecting Wires** - Connections should be made according to the wiring diagram provided by the manufacturer. Ensure that terminals are tightened with the correct torque and that wires of the appropriate cross-section are used. Only one wire may be inserted into each terminal – regardless of whether it is solid or stranded with a crimped ferrule.
6. **Checking the connections** - After completing the installation, carefully check the correctness of all connections, make sure that the terminals are securely tightened and that there are no exposed wires that could cause a short circuit or a shock hazard.
7. **Restoring Power** - After completing the installation and inspection, turn on the power and check the operation of the device according to the instructions.
8. **Tests** - After completing the installation, check the correct operation of the device, e.g. all LED segments are lit.

No Modifications - Any modifications to the device or its components are prohibited. This may result in malfunctions and a safety hazard.

Warranty and guarantee – short information

The warranty applies to every purchaser, including consumers. Warranty claims should be directed to the seller from whom the purchase was made.

If a defect is found in the device, the customer has the right to choose: he or she can use the statutory warranty (in accordance with the provisions of the Civil Code) or the manufacturer's warranty.



Pollin Guarantee



Pollin devices are covered by a 10-year manufacturer's warranty – Zakład Elektroniczny POLLIN Wojciech Polak. The warranty applies only to devices purchased by businesses and covers material and manufacturing defects.

Warranty claims should be submitted by e-mail to: pollin@pollin.pl, in accordance with the procedure described in the full version of the document.

The warranty does not cover, among other things, mechanical damage, unauthorized modifications, installation by unqualified persons and natural wear and tear of consumables.

The full text of the warranty terms is available at: <https://pollin.pl/do-pobrania> or via the attached QR code.

Markings



This symbol on a device indicates that the used equipment should not be disposed of with other household waste. Used equipment should be taken to one of the designated electronic waste collection points or returned to the store when purchasing new equipment. Improper disposal of electronic waste poses a threat to the environment and human health.



The CE marking confirms that the product meets the essential requirements of all applicable European Union directives and regulations.



This marking indicates that installation, connection and all servicing of the device may only be performed by qualified personnel with electrical qualifications.

Technical support – the fastest help from Pollin experts

If you have any questions regarding the operation, configuration or installation of the device, **please contact us by email – this is the fastest way to obtain technical support**.

Send a message to: support@pollin.pl, describe the problem in detail and leave your contact number and the hours when we can call you.

Our engineers will review your request and make every effort to provide you with professional assistance as quickly as possible.



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