

Light sensor SN-16L

Description

The SN-16L surface-mounted sensor is designed to work with MROK-16SN or MROK-16SW twilight switches. It is housed in a hermetic polycarbonate housing with an IP65 rating, ensuring resistance to moisture and dust. It is equipped with a phototransistor that precisely responds to changes in light intensity within the typical dusk and dawn range.

The mounting is done on the surface using two screws, and the connection is made via a terminal strip, which facilitates installation and service.

The probe cables can be freely extended, which allows for installation in a place free from direct light from the switched luminaires.



Principle of operation

The SN-16L probe monitors light intensity and transmits a signal to the MROK-16SN twilight switch control module. The phototransistor responds to changes in light, enabling automatic switching on of the lighting when it drops below the threshold set on the MROK-16SN (dusk) and switching off when it rises (dawn). The airtight housing ensures reliable measurement in outdoor conditions, and surface-mounted mounting allows for easy adjustment of the installation location.

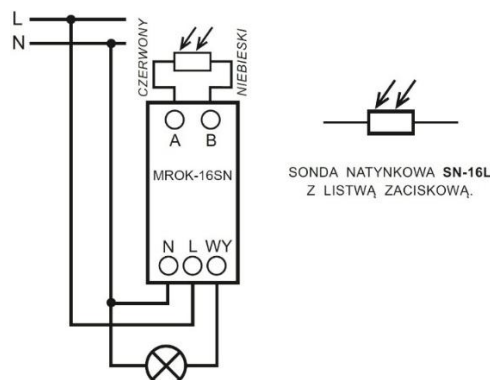
Technical data

Parameter name	Value
Case	Hermetic, made of polycarbonate
Installation	Attachment to the ground (mounting holes)
Light sensor (photoelement)	Phototransistor
Additional information	The SN-16L surface-mounted probe is intended for use with twilight switch: MROK-16SN MROK-16SW
Clamp type	Elevator

Parameter name	Value
Wire stripping length	8 mm
Single-wire conductor	0.5 to 2.5 mm ²
Multi-stranded conductor (stranded wire) without ferrule	0.5 to 2.5 mm ²
Stranded wire with square 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 SN-16L cylindrical probe 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 SN-16L light sensor should be mounted vertically on a flat surface, with the gland facing downwards, securing it to the surface with two screws in a place that is not illuminated by the switched light source or other lighting (except for situations in which the user wishes to detect artificial lighting).
5. **Wiring** - Connections should be made according to the wiring diagram provided by the manufacturer, using a two-core wire with an outer diameter of 5 to 10 mm. Ensure that the terminals are tightened with the correct torque and that the wires used have the appropriate cross-section. 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. **Testing** - After assembly, verify the device's proper operation. To verify its operation, cover the probe tightly, for example, with a cardboard box or a dark, thick cloth. Covering only the probe's "eye," for example, with a finger, is insufficient, as sunlight is very intense and penetrates the photoelement through the plastic housing and human skin.

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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