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DESCRIPTION

The twilight switch WZM-02/SOS is used to control lighting devices or other energy receivers depending on illuminous flux density. The system switches on the lighting at dusk and switches off at dawn.

The device is equiped with 2 illuminous flux density ranges where the switching on threshold can be adjusted by the user. The system has the continous switch on system (ON), connected to output relay terminals, and the automatic function (AUTO). External illuminous flux density sensor SOS-01 (in a set)transmits the signal to the twilight switch WZM-02

Sensor connecting cable of 50m maximum lenght enables the sensor to be put in a suitable place

FEATURES

- Receivers controll depending on iluminous flux density
- · Input rated indicator
- Relay indicator
- Illuminous flux density range choice
- Smooth switch on threshold regulation
- Automatic work mode (AUTO) or continous work mode (ON)
- Outer illuminous flux density sensor SOS-01 in a set
- Resistant to momentary changes of illuminous flux density



The device is designed for onephase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this instruction

manual. Installation,connection and control should be carried out by a qualified electrician staff, who act in accordance with the instruction manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to install the device. Improper transport, storage,and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device's part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



The symbol stands for selective collection of electrical and electronic devices. Placing used devices with other waste is not allowed

TECHNICAL DATA

WZM-02/SOS

Input terminals: L, N
Input rated voltage: 230 V~
Input voltage tolerance: -15 ÷ +10 %
Nominal frequency: 50 / 60 Hz
Rated power consumption: 35 mA
Input rated indicator: LED green

Light sensor terminals: IN, IN

Maximum cable lenght: 50m (MTY 2 x 0,5 mm²)

Threshold adjustment range: two sections 1) 0 ÷ 200 lx 2) 100 ÷ 20.000 lx

Relay indicator: LED red

Output contacts parameters: | 1NO/NC - 10 A / 250 V AC1 2500 VA

Number of terminal clamps: 7 (WZM-02); 2 (SOS-01) Section of connecting cables: 0,2 ÷ 2,50 mm²

Ambient temperature range: -20 ÷ +45 °C

Operation position: free

Mounting: TH rail 35 (EN60715) (WZM-02), 2 rawlplugs

6 x (3,5 x 35) (SOS-01)

Casing protection degree: | IP20 (WZM-02); IP54 (SOS-01)

Protection level: II
Overvoltage category: II

Pollution degree: 2

Surge voltage: 1 kV (EN 61000-4-5)

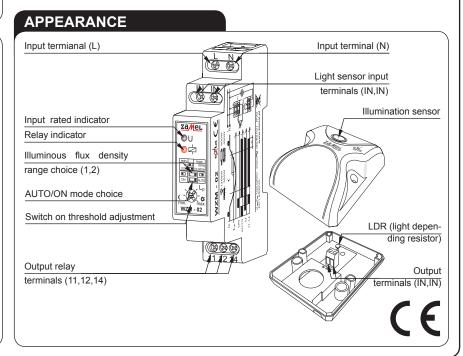
Dimensions: monomodular (17,5 mm) 90x17,5x66 mm (WZM-02)

84 x 68 x 43 mm (SOS-01)

Weight: 0,076 kg (WZM-02); 0,05 kg (SOS-01)

Reference standards: EN 60669-1, EN 60669-2-1

EN 61000-4-2,3,4,5,6,11



MOUNTING, FUNCTIONING

- Disconnect the power supply
- By means of special equipment check if there is no voltage on connection cables
- Install WZM-02 device in the switchboard on TH-35 rail
- Connect the cables with the terminals according to installing diagram,
- 5 Switch on the power supply from the mains
- Choose illuminuous flux density range by means of the upper switch,
- Choose AUTO mode (switch "automatic work" mode). ON mode allows continuous switch on of load installed to output relay terminals
- Set the potentiometer of the threshold of switch on the lighting to a minimum.
- If the lighting outside reaches the level at which the lighting installation is to be switched on - turn delicately the potentiometer in the direction of a maximum, until it switches on
- 10. Leave the potentiometer in a set position

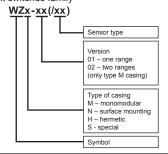
The system works properly after switching on the power supply from the mains. Turning the potentiometer in the direction of "(" causes the lighting device to switch on at lower lighting level, in the direction of "xi" causes the device to switch on at higher lighting level. In case the inner sensor's luminous flux density falls below the preset threshold the system switches on the output relay and its lighting devices. The relay is switched on until the luminous flux density is over the preset threshold. Using the luminous flux density hysteresis (Δ) and relay switching off time delay (T) makes the system resistant to momentary and accidental sensor lighting.

LIGHT SENSOR FAMILY

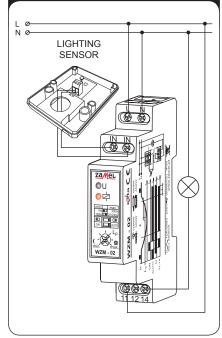
SENSOR	Lenght
SOH-01	1 m
SOH-03	3 m
SOH-05	5 m
SOS-01	brak

PRODUCT FAMILY

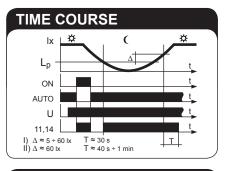
Twilight switch WZM-02 belongs to the WZx twilight switches family

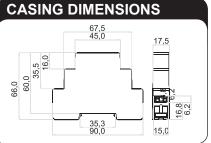


CONNECTING

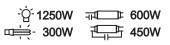


INNER DIAGRAM IN

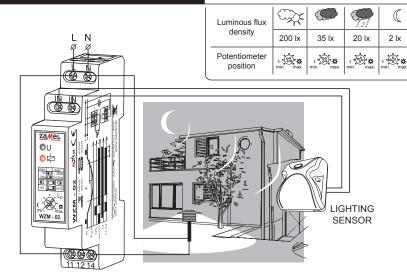




RELAY CAPACITY



EXAMPLE OF INSTALATION



Typical application:

The tilight switch operates the lighting control functions (e.g garden lighting) The lighting sensor should be installed in a place which is not directly illuminated by lights that are operated by this twilight switch

WARRANTY CARD

There is 24 months guarantee on the product

- ZAMEL Sp. z o.o. assures 24 months guarantee for the product.
- The manufacturer's quarantee does not cover any of the following actions
- a) mechanical damage during transport, loading / unloading or under other circumstances
 b) damage caused by incorrect mounting or misuse of ZAMEL Sp. z o.o products
 c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices
- c) damage caused by unautonised modifications made by the PORCHASER of any third parties to the product or an needed for the product functioning,
 d) damage caused by Act of God or any other incidents independent of the manufacturer
 The PURCHASER shall lay any claims on grounds of the garantee card in writing to the dealer or ZAMEL Sp. z o.o
 ZAMEL Sp. z o.o is liable for processing any claim according to current Polish legislation
 ZAMEL Sp. z o.o shall process the claim at its own discretion: product repair, replacement or money return
 The manufacturer's guarantee is valid in the Republic of Poland.

- The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this guarantee card.

Salesman stamp and signature, date of sale