

## INSTRUCTION MANUAL

### TWILIGHT SWITCHES

**MROK-1**  
**MROK-16**  
**MROK-16M**  
**MROK-16S**

*base  
mounted*

*rail mounted*

*2 years  
guarantee*

### APPLICATION

Twilight switch is intended to switch on any type of lighting at dusk and switch if off at dawn. It is especially destined for lighting streets, neon signs, shop windows, etc. Switching on and off takes place after time delay due to which

activating of the device due to momentary light impulses was eliminated. The switch has a possibility to adjust actuation threshold that does not cause rapid change of hysteresis width (i.e. switching off at dawn threshold will move in the similar extent as the switching on threshold). Load current (resistance) should not exceed 10 A for **MROK-1** and 16 A for **MROK-16/16M** and **MROK-16S**.

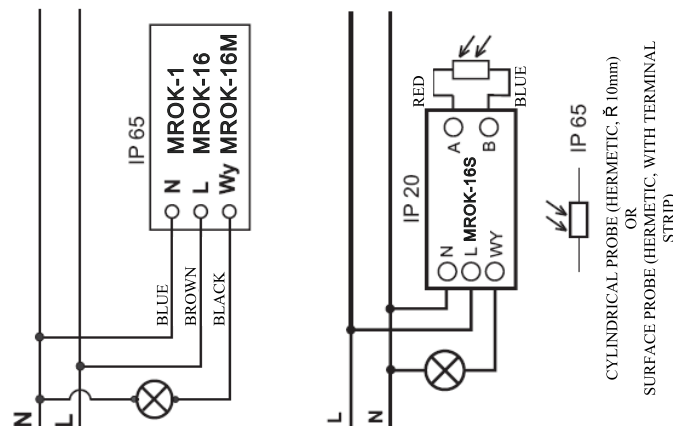
Additional contactor is needed for bigger loads.

**MROK-1** and **MROK-16/16M** versions are made in hermetic enclosure mounted to the base. Whereas **MROK-16S** version is designed to be mounted on a rail 35 mm (IP 20) and it works together with hermetic cylindrical probe or surface probe.

**NOTE!** Do not obscure visual field of a sensor during adjustment!  
Be sure to insert a plug after adjustment is finished!

### ASSEMBLY

Depending on the type of device it is to be mounted on a 35 mm rail or to the base, and then power cords should be connected according to the appropriate diagram. Connections of device power circuit should be made with a cable of a cross section suitable to a given load, and those of a sensor circuit with a cable of a min. 0.5 mm<sup>2</sup> cross section. The switch or a probe should be mounted in such a way that light from switched lighting (or other sources of light) does not fall on the sensor. **Diameter of a hole for mounting cylindrical probe: 10.2 ÷ 10.5 mm. Surface probe has a terminal strip and is mounted to the base with two screws.**



### TECHNICAL SPECIFICATION

Power supply	— 230 V AC 50 Hz
Max resistance load current	— 10 A / 16 A
Actuation threshold	— approx. 10 LUX
Switch off threshold	— approx. 20 LUX
Time delay of switch off or actuation	— approx. 20 s
Adjustment range of actuation threshold	— approx. 2 - 50 LUX
Working temperature	— -30°C ÷ +50°C
Protection class	— IP 65 ( <b>MROK-16</b> <b>MROK-1</b> versions and probes to <b>MROK-16S</b> ) — IP 20 ( <b>MROK-16S</b> )
Dimensions	— versions <b>MROK-16</b> <b>MROK-1</b> 66 x 47 x 24 mm — <b>MROK-16M</b> 50 x 40 x 20 mm — <b>MROK-16S</b> 1 module (17.5 mm) — cylindrical probe: • 10 mm — surface probe: 50 x 52 x 35 mm
Interference level	— N

### ACTUATION THRESHOLD ADJUSTMENT

In case there is a necessity to correct actuation threshold, actuation of the device should be speeded up (to the right) or delayed (to the left) by turning the knob **GENTLY** and observing red diode which immediately signals the moment of capturing actuation threshold. In versions designed to be mounted to the base ( ) adjustment knob and red diode are visible after taking the plug off (drawing below).

The drawing regards threshold adjustment of twilight switches **MROK-16/16M** i **MROK-1**

RED SIGNAL DIODE

