



responds to the required lx level at working desk. If the two values differ more than the set hysteresis level, OL regulator sends the output control signal to adjust the lights accordingly. The comparison continues in the pre-set time steps until the measured and wanted light values are equal. The feedback daylight regulation can only be set for regulator no.1.

For some applications the curve daylight regulation is a more favorable option. The curve daylight regulation uses the conversion curve which describes the relation between direct daylight level at the lens of the daylight sensor and the level of its output control signal. OL regulator provides the possibility to set up 8 conversion curves which can control up to 4 groups of lights on two different light levels (Normal and Low). The OL regulator used as a light sensor for the curve daylight regulation has to be installed in places without influence of the lighting fixtures. During the daylight regulation the output control signal can be set also at a fixed level.

Each of the 4 output control signals (Normal regulation) provide a possibility to use the offset function i.e. to use the second (offset) output control signal level adjusted by a fixed percentage value, e.g. for independent control of the series of lights in darker or lighter areas.

For each of the output control signals it is possible to set the state for situations power is ON and power is ON after a power failure.

The POSEIDON® transmitters can control and set some of the special functions of OL regulator.

## INSTALLATION

The OL regulator is suitable for non-stop operation and for connection to the fixed installation which must comply with the relevant standards and regulations. The device must be connected to the mains only by a specialized technician with appropriate electrical qualification. Turn off the mains voltage supply before initiating installation work!

### Connecting and installation

The device is designed to be mounted in the under ceiling. To fix the OL regulator a 68 mm (diameter) hole has to be done in the under ceiling. There has to be an open space above the regulator at minimum 68 mm high (including the under-ceiling). In special cases when the plastic cover of the connection terminals and the mounting strap are not used a 62 mm of open space above the regulator is needed. Remove the plastic cover of the connection terminals (Fig. 2) from the OL regulator body. Lead the connection wires under the mounting strap to the connection terminals (Fig. 3). If required the connection wires could be protected against pull out by screws on terminals and by mounting strap. Put back the plastic cover of the connection terminals if required. After the wiring is completed and in case the programming is done directly on the device using the black button placed on the body of the OL regulator (manual programming) hold the fixation springs on the side of the regulator and fix it in the under ceiling.

Note:

*For all passive infrared switches, physics determines that maximum detection sensitivity is achieved in tangential movements (i.e. perpendicular to the line between the sensor and the monitored object). The approximate range depending on the monitored person's movement direction is specified in fig. 1a (installation height of 2.5 m). If the installation height is greater, the detection zone expands appropriately (up to dia. 16 m at an installation height of 8 m – fig. 1b).*

*The reach range can be reduced (angle 45, 30 and 15°) by the self-adhesive covering, which is supplied separately (fig. 1b).*

*Do not install the device near heating elements, lamps or other heat sources.*

## ADJUSTING ELEMENTS

There are three adjusting elements on the side of the OL regulator (Fig. 2):

### a) **SENS** (function setting)

Use this element to set the on/off mode of the regulator using the integrated movement sensor. In the "+" position, the movement sensor turns on the light level regulation at the normal level and turns off the regulation; in the center position, the movement sensor only turns off the regulation; in the "-" position, the movement sensor does not influence the regulation (no control).

### b) **LIGHT** (ambient light intensity)

The influence of ambient light can be set from maximum (☾ – the movement sensor works only in darkness) to full override (☀ – the movement sensor works even in full daylight).

### c) **TIME** (switch-off delay)

The switch-off delay can be set between 5 s and 105 minutes; the center position corresponds to approximately 10 minutes.

Note:

*Using remote management, the adjusting elements can be disabled and the functions of the movement sensor, ambient light influence and the required switch-off delay can be adjusted remotely.*

## COMMISSIONING

OL regulator is designed for commissioning using software POSEIDON® Assistant and the P8 TR USB transmitter.

Modes of light regulator:

### DIMM

Output control signals of the OL regulator are set on the wanted value independently from the value of ambient light. The change of output control signal value is done according to the preset rise and decay time.

### NORMAL

Regulation is on and the set Wanted light value Normal is used.

### LOW

Regulation is on and the set Wanted light value Low is used.

### OFF

Regulation is off. The values of the output signals are zero (lights are off).

### AUTO

Regulation is on and both Wanted light values (Normal and Low) are used. Modes DIMM, NORMAL and LOW are active for the duration of the three independent timers. After timers are expired the mode OFF is activated. Timers can be changed by internal movement sensor and/or by any connected POSEIDON® transmitter.

Modes of built-in movement sensor:

### MOVEMENT

Command sent by a POSEIDON® transmitter simulates movement and activates the internal movement sensor. In case the ambient light intensity is lower than the set value (Lighting) at the movement sensor (Movement sensor/Parameters), the sensor sends the command to the connected POSEIDON® receiver and the light is on for the set period of time (Timer). It is possible to ignore the Lighting level so the lights will always be switched on when the button is pressed. This function can be used in large corridors where the transmitter is placed outside the range of the monitored area of the movement sensor.

### OFF PIR

Command sent by a POSEIDON® transmitter to cancel the current mode and running Timer of the movement sensor. It is also possible to set time interval when the movement sensor shall be non-active (Forced off time) to prevent re-activation of movement sensor when leaving the monitored area.

### TIMER

Command sent by a POSEIDON® transmitter to activate the internal movement sensor and to set a new Timer. By selecting "Off when button hold" option it is also possible by holding (long press for more than 0.5 s) to switch off the Timer and also to set the time when the movement sensor is non-active (Forced off time). This mode is automatically terminated after the expiry of the Timer. Any new movement detected by internal movement sensor doesn't have influence on the Timer until the remaining time is lower than the Timer set at the internal movement sensor. Any movement sensed after that condition is met results in the refresh of the Timer set at the internal movement sensor.

### TIMER /OFF PIR

Short press of the POSEIDON® transmitter button activates the function Timer. Long press (>0,5 s) of the POSEIDON® transmitter button activates OFF function.

### TIMER + PIR

Short press of the POSEIDON® transmitter button activates the function Timer. It is possible to refresh the Timer up to max. 4 x times by short press of the button.

### ADD TIMER + OFF PIR

Short press of the POSEIDON® transmitter button activates the function Add Timer. Long press (>0,5 s) of the POSEIDON® transmitter button activates OFF function. Possibility to set the Forced off time.

Manual settings allow only basic settings of the OL regulator:

### **A) How to send the initialization code of the OL regulator set to the movement sensor function to a receiver memory**

- Press once (briefly) the button on the OL regulator (indicated by steady green LED light under the regulator lens).
- Set the selected receiver to the programming mode and select the ON/OFF function (see the user manual of the appropriate receiver).
- Press (long press >0.5 s) the button to transmit the initialization code to program it in the receiver memory – indicated by slow blinking of the green LED under the regulator lens.

Note:

*Fast blinking of the red LED under the regulator lens indicates that transmission of the initialization code using remote management is disabled.*

### **B) How to send the initialization code of the OL regulator set to the light level regulator function to a receiver memory**

- Press twice (briefly) the button on the OL regulator (indicated by a flashing LED light under the regulator lens).
- Set the selected receiver to the programming mode and select the DIMM function (see the user manual of the appropriate receiver).
- Press (long press >0.5 s) the button to transmit the initialization code to program it in the receiver memory – indicated by slow blinking of the green LED under the regulator lens.

Note:

*Fast blinking of the red LED under the regulator lens indicates that transmission of the initialization code using remote management is disabled.*

### **C) How to program the transmitter in the OL regulator memory with the REG function**

- Press three times (briefly) the button on the OL regulator (indicated by a steady red LED light under the regulator lens).
- Press the appropriate button(s) of the transmitter twice.
- If programming is correct, the green LED under the regulator lens will flash slowly.

Note:

*During programming transmitter are distinguish which buttons are used for transmitting the initialization code. It is used either buttons on the two button transmitter, or pair buttons (upper and bottom left or upper and bottom right), or all button of the four button transmitter – the buttons are programmed in two buttons mode (NORMAL regulation / OFF).*

### **D) How to delete a transmitter code from the OL regulator memory**

- Press four times (briefly) the button on the OL regulator (indicated by flashing of the red LED under the regulator lens).
- Press the appropriate button(s) of the transmitter twice.
- If deletion is correct, the green LED under the regulator lens will flash slowly.

### **E) How to delete all transmitters**

- Press (long press >10 s) the button on the OL regulator.
- If deletion of all transmitters is correct, the green LED under the regulator lens will flash slowly.

Notes:

*If no code is programmed (deleted) or no initialization code is transmitted within 30 seconds of modes of programming, deletion or transmission of the initialization code, the OL regulator automatically returns to the operating mode.*

*Fast red flashing of the LED under the regulator lens indicates an error message (for example, the code being programmed has already been programmed in the OL regulator memory, or, in case of deletion, the code being deleted is not present in the memory).*

*Programming mode can be disabled using remote management. The OL regulator will indicate this state by fast flashing of the red LED upon pressing (briefly) the button. Some records in the OL regulator memory can be locked against deletion using remote management. If you attempt to delete a locked record, the regulator will indicate this by slow flashing of the green LED followed by fast flashing of the red LED. The same indication is used for the presence of at least one locked record when deleting all codes from the memory.*

## REMOTE MANAGEMENT

For devices in the POSEIDON® series, manual programming of transmitter codes, functions and parameters can be substituted by remote management using the SW POSEIDON® Assistant tool and the P8 TR USB transmitter. You can even use remote management to set other functions and parameters that cannot be accessed otherwise:

- Disable (enable) manual programming and delete transmitters.
- Lock selected transmitters against deletion from the OL regulator memory.
- Disable (enable) search mode. Set regulation values for two groups of lamps.
- Wireless transmission of the measured light intensity.
- Transmitters programming to the OL regulator in the other functions.

By default, the OL regulator is set to the so-called state of time-limited search. This means that when the regulator is being connected using remote management for the first time, it is possible to connect to it only within the first five minutes of connecting it to the supply voltage. To enable

time-unlimited search (! can be misused to gain unauthorized access to remote management !), before you connect the OL regulator to the supply voltage, press and hold the button until the regulator indicates the change by three simultaneous flashes of the green and red LED under the regulator lens. Similarly, use this procedure to return to the time-limited search; the only difference is indication by only one blink.

The current setting of the search mode used in the OL regulator can be ascertained while connecting it to the supply voltage. Three short blinks of both the green and red LEDs indicate unlimited search, one short blink indicates time-limited search, no short blinking indicates searching is disabled.

## RESET TO DEFAULTS


If you need to cancel all function and parameter settings, you can return to the manufacturer's default settings:

- Press and hold the button on the OL regulator. Then connect the OL regulator to the supply voltage, until both red and green LEDs under the regulator lens light up (approx. 10 s).
- While the LEDs are lit up (approx. 3 s), release the button and press it briefly again.
- Resetting to the manufacturer's defaults will be indicated by slow flashing of the green LED.

Note:

*When resetting to defaults, all programmed codes will be deleted from the OL regulator memory as well!!!*

*ENIKA.CZ s.r.o. hereby declares that this P8 LR C complies with the essential requirements and other relevant provisions of Directive 2014/53/EU. For details, see: www.enika.eu.*

EU Prohlášení o shodě	
Výrobce:	ENIKA.CZ s. r. o. 190 00 PRAHA 9, Pod Harfou 933/86 IČO: 28218167
tímto prohlašuje, že výrobek	
typové označení:	P8 LR C
specifikace:	---
druh výrobku:	Regulační snímač pohybu a osvětlení
frekvence:	868,3 MHz
vř výkon:	10 dBm
citlivost:	-10 dBm
- Je ve shodě se základními požadavky evropských direktiv: <b>2014/53/EU (RED)</b> (dodávání rádiových zařízení na trh) <b>2011/65/EU (RoHS)</b> (omez. používání některých škodlivých látek)	
- splňuje požadavky těchto harmonizovaných norem a předpisů: ČSN ETSI EN 300 220-1 V2.1.1:2007 ČSN ETSI EN 300 220-2 V2.1.1:2006 ČSN ETSI EN 301 489-1 V1.6.1:2006 ČSN EN 60730-1 ed.3:2012 ČSN EN 50581:2013	
Toto prohlášení je vydáno na výhradní odpovědnost výrobce.	
V Nové Pace dne 11.07.2018	 Ing. Vladimír Milítký, řídící systému jakosti