## PS-1

## Photo-electric switch

The PS-1 monitors outside light fixtures according to daylight, this includes Playgrounds, offices, schoolyards, garage, stores exhibit windows etc'. It switches on when it getting dark and switch off as soon as day goes on even if weather is cloudy during day time. The electronic device built inside robust waterproof case for outdoor install. Device Adjustment: brightens value can be adjusted between 30 to 930 Lux. Adjustment is done directly on the PS board as it shown on the diagram. By turning the adjustment knob to (D) position "dark state" the relay will energize as soon as it will start darken outside. Turning the knob to (L) position "light state" the relay will energize in brighter illumination. In order to prevent random switching the PS has internal delay of 20 sec . This prevents momentary light flashes such as car dazzle or short dark periods appearance, usually caused by cloudy days etc'.

## General specifications

- Power supply: refer to table ( ordering information )
- Supply tolerance: $+10 \% /-15 \%$
- Frequency: $50 / 60 \mathrm{~Hz}$
- Power consumption: 1 VA
- Duty cycle: $100 \%$
- Protection class open air: IP20
- Protection class enclosed: IP40
- Protaction class box: IP 66
- Self-extinguishing plastic housing UL V0 acc IEC 529
- Protaction class light sensor: IP65
- Cable length to sensor max: 100 M
- Switching delay built in: 20s
- Switching status indication: yes
- Terminal : acc IEC 60947-7-1, IEC 60998-1
- Terminal Capacity: $1 \times 4 \mathrm{~mm}^{2}$ without multicore cable end $1 \times 0.5$ to $2.5 \mathrm{~mm}^{2}$ with/without multicore cable end


## Output circuit

- Relay: 1 N/O
- Rated voltage: 250 Vac
- Switching capacity ac: 2000 VA (8A / 250V) COS $\varphi=1$
- Switching capacity dc: 3 A 30 Vdc
- Max switching capacity ac: 12 A
- Mechanical life: $1 \times 10^{6}$ operations
- Electrical life at 1000 VA COS $\varphi=1$ : 200.000 operations


## Accuracy

- Base accuracy at min. and max scale: $\pm 1 \%$
- Adjusting accuracy: <5\% of max scale value
- Repetition accuracy under constant condition: <0.5\% (as \% of full range)
- Voltage influence: No
- Temperature influence: < $0.01 \% /{ }^{\circ} \mathrm{C}$


## Environmental conditions

- Permissible ambient temperature: $-20^{\circ} \mathrm{C} \ldots+50^{\circ} \mathrm{C}$
- Storage temperature: $-25^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C}$
- Transport temperature: $-25^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C}$
- Relative humidity (acc. IEC 721-3-3 CLASS 3K3): 15\% to 85\%
- Vibration resistance (acc. IEC 68-2-6): 10 TO 55 H
- Light sensor: $-25^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C}$


## Dimensions \& weight

- Width: $111\left(4.40^{\prime \prime}\right) \mathrm{mm}$
- Height: $111(4.40$ ") mm
- Depth (excl. DIN-profile): 53 mm
- Weight: 170 gram


## Connections

230VAC / 110VAC


48VDC / 24VDC


Ordering information


## PSK Controllers Ltd.

Email: psk@psk.cc Website: www.psk.cc

## Dimensions



Istallation Guide

## Mounting on wall:



| Wiring $75^{\circ} \mathrm{C}$ Wire | $\frac{\square}{\square}$ | $\overbrace{\overbrace{\text { E }}}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| L1-T1 | $\begin{gathered} {\left[\mathrm{mm}^{2}\right]} \\ 0.05 \div 4 \end{gathered}$ | $\begin{gathered} {\left[\mathrm{mm}^{2}\right]} \\ 0.05 \div 4 \end{gathered}$ | N.A. | (5) |  |
| $\begin{gathered} \mathrm{N}, 1,2,3 \\ \mathrm{~W}, \mathrm{X} \\ (+)(-) \end{gathered}$ | $\begin{gathered} {\left[\mathrm{mm}^{2}\right]} \\ 0.05-4 \end{gathered}$ | $\begin{gathered} {\left[\mathrm{mm}^{2}\right]} \\ 0.05-4 \end{gathered}$ | N.A. | N.A. | $\begin{gathered} \text { M3 } \\ 0.5 \mathrm{Nm} \\ \text { Max } \end{gathered}$ |
| important: When using electric or pneumatic tools for screw terminals observe max. torque limits |  |  |  |  |  |



230VAC / 110VAC


Precautions For Installation and Safe Use
Failure to follow those instructions will result in death or serious injury.

- Disconnect all power before working on equipment
- Do not try to clean the device with solvent or the like. Only clean the device with a dried cloth.
- Verify correct terminal connections when wiring.
- To connect the unit, use appropriate insulated 230VAC cord.
- Electrical equipment should be serviced only by your competent seller.

No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.

