

PIR LED Switch (PLS-1)

The PLS-1 is a motion activated LED lamp for 12 and 24 Volt systems for which a Passive Infra-Red Detector is used. The PLS-1 has a built in high efficiency Power LED (1 Watt)
 The PLS-1 is designed for indoor use only. This could be for example cargo space of a truck, a bus or inside a ship. To prevent over-voltage, under-voltage and overload the PLS-1 possesses, besides the basic functionality, also some protection functions.

Operation

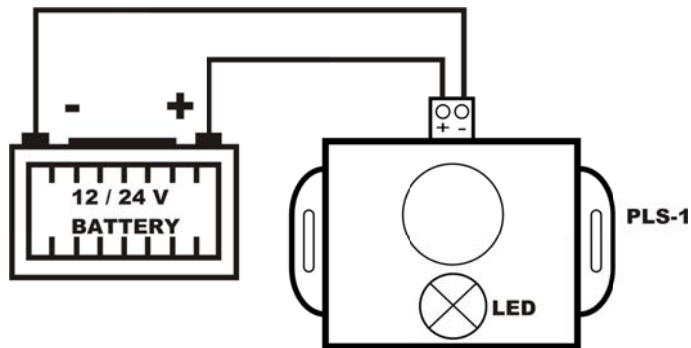
The PLS-1 switches the LED on as soon as motion is detected. If no motion is detected any more the PLS-1 switches off with a delay. The delay time can be set by way of an internal potentiometer. This is done in steps of one minute. The minimum delay time is one minute and the maximum delay time is ten minutes. Default is a delay time of about five minutes. The load will be disconnected five minutes after the last motion is detected.

Connecting

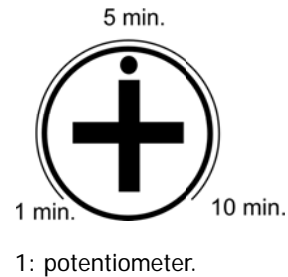
1. Connect the minus (-) of the battery to the (-) INPUT
2. Connect the plus (+) of the battery to the (+) INPUT

ATTENTION!

Do not open the PLS-1 when the input voltage is connected.



2: Connection schematic.



Specifications

Autodetect	12VDC / 24VDC
Switch time adjustable:	Between 1 Min. and 10 Min.
Power up delay:	+/- 30 sec.
Detection angle:	60°H – 60°V
Detection range:	5 meter
Connector type:	Screw
Dimensions:	L 67 * W 50 * H 30 (mm)
Weight:	35 gr.

Electronic characteristics

Description	12V	24V
Power LED	1 Watt	
Effincy	± 90%	
Softstart LED	5 sec.	
LED Color	3000K	
Low Voltage disconnect	10.5 V	21 V
Low Voltage disconnect delay	5 sec	
Turn on Voltage, after low Voltage disconnect	12.6 V	25.2 V
Current consumption (idle state)	3 mA	
LED (on) current	±100 mA	±56 mA
Over Voltage turn off:	16.0 V	32.0 V