

# Photocell PWR



**ALGE**  
**TIMING**

## General

- Read the manual before using the Photocell
- Connection, mounting and adjustment only by specialists
- Protect the device from humidity and pollution

The Photocell PWR and PWR-H is an optoelectronic sensor and is used for optical detection, of objects, animals, people etc.

## ALGE-Photocell types

Photocell	Type	Characteristic	Distance
Reflection Photocell	RLS1n	reflector	about 1 to 28 m
Photocell	RLS1nd	separate transmitter/receiver	about 100 m
Light sensor	PWR	without reflector	0.8 to 2.5 m
Light sensor	PWR-H	without reflector, with heater	0.8 to 2.5 m
	RLS3c	3-fold photocell	

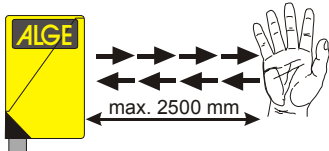
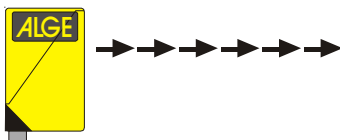
## Start-up

### Set by Alge:

- NPN-Contact (normally-open contact)
- light switching (switch position H)
- set on max. distance
- only for PWR-H: memory time switch on position  $t_0$
- only for PWR-H: time switch  $t_1$  has no function when memory time switch is set on  $t_0$
- only for PWR-H: time switch  $t_1$  has no function when memory time switch is set on  $t_0$

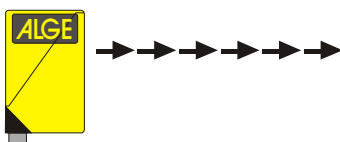
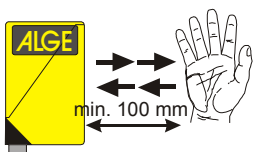
You can work with the Alge settings when you use the PWR or PWR-H with ALGE-Devices.

The panel plug can be turned from horizontal to vertical. To do that, you must connect the plug, then pull and turn.



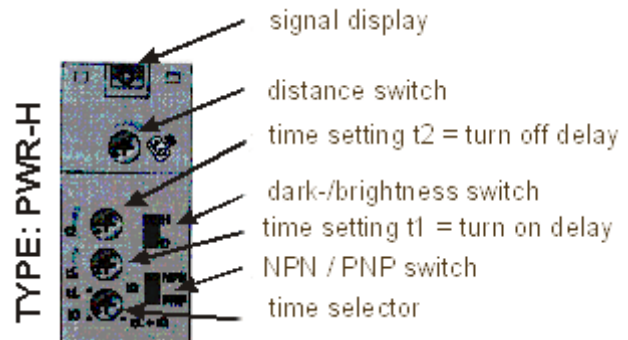
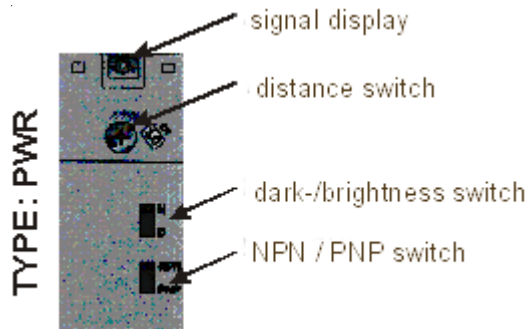
### Function with Alge settings:

When an object passes the photocell in a distance between 0.1 and 2.5 m, the photocell will release.

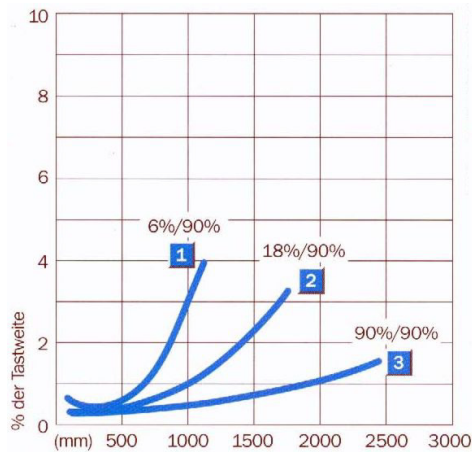


## Setting options

- Open the lid and the cover of the sensor, make sure no dirt gets into the device.
- Choose the switch positions
  - H = light-switching ; if light received, output (Q) switches
  - D = dark-switching ; if light interrupted, output (Q) switches
  - NPN = normally-open contact
  - PNP = normally-close contact



## Distance



- |         |                         |
|---------|-------------------------|
| 1 BLACK | Distance to about 1.3 m |
| 2 GREY  | Distance to about 1.8 m |
| 3 WHITE | Distance to about 2.5 m |

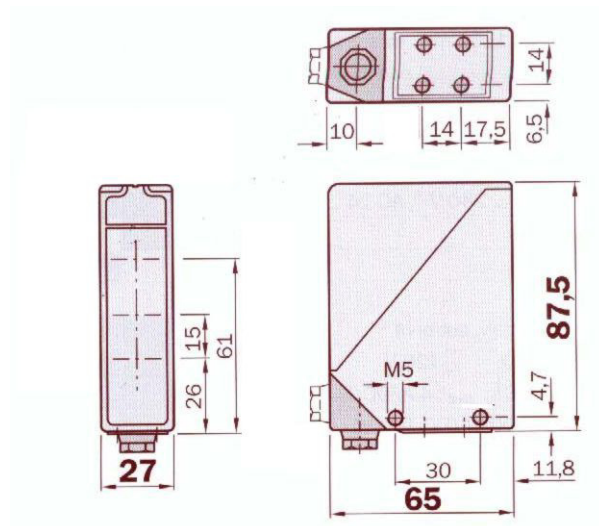
## Service

The **ALGE**-Photocell PWR and PWR-H does not need service. But we recommend to clean the optical face and check the connectors periodically.

### Technical data

<b>Distance:</b>	100 to 2500 mm adjustable
<b>Diameter of light spot:</b>	about 80 mm at 2500 mm
<b>Phototransmitter:</b>	LED
<b>Type of light:</b>	infrared
<b>Input voltage:</b>	10 to 30 VDC
<b>Power consumption:</b>	50 mA the Type PWR and 70 mA the Type PWR-H
<b>Switching outputs:</b>	PNP or NPN (adjustable) – Alge Device need PNP
<b>Reaction time:</b>	<500µs
<b>max. Signalfolgen:</b>	1000 /s
<b>Type of protection:</b>	IP67
<b>Operating temperature:</b>	-40 to +60°C
<b>Store temperature:</b>	-40 to +75°C
<b>Wight:</b>	about 0.33 kg

### Dimension:



### connections:

1	brown	supply	input
2	white	-----	
3	blue	ground	
4	black	signal	output

