

P1a-TX-RX



ALGE-TIMING

Manual

Important Information

General

Before using your **ALGE-TIMING** device read the complete manual carefully. It is part of the device and contains important information about installation, safety and its intended use. This manual cannot cover all conceivable applications. For further information or in case of problems that are mentioned not at all or not sufficiently detailed, please contact your **ALGE-TIMING** representative. You can find contact details on our homepage www.alge-timing.com

Safety

Apart from the information of this manual all general safety and accident prevention regulations of the legislator must be taken into account.

The device must only be used by trained persons. The setting-up and installation must only be executed according to the manufacturer's data.

Intended Use

The device must only be used for its intended applications. Technical modifications and any misuse are prohibited because of the risks involved! **ALGE-TIMING** is not liable for damages that are caused by improper use or incorrect operation.

Power supply

The stated voltage on the type plate must correspond to voltage of the power source. Check all connections and plugs before usage. Damaged connection wires must be replaced immediately by an authorized electrician. The device must only be connected to an electric supply that has been installed by an electrician according to IEC 60364-1. Never touch the mains plug with wet hands! Never touch live parts!

Cleaning

Please clean the outside of the device only with a smooth cloth. Detergents can cause damage. Never submerge in water, never open or clean with wet cloth. The cleaning must not be carried out by hose or high-pressure (risk of short circuits or other damage).

Liability Limitations

All technical information, data and information for installation and operation correspond to the latest status at time of printing and are made in all conscience considering our past experience and knowledge. Information, pictures and description do not entitle to base any claims. The manufacturer is not liable for damage due to failure to observe the manual, improper use, incorrect repairs, technical modifications, use of unauthorized spare parts. Translations are made in all conscience. We assume no liability for translation mistakes, even if the translation is carried out by us or on our behalf.

Disposal

If a label is placed on the device showing a crossed out dustbin on wheels (see drawing), the European directive 2002/96/EG applies for this device.

Please get informed about the applicable regulations for separate collection of electrical and electronical waste in your country and do not dispose of the old devices as household waste. Correct disposal of old equipment protects the environment and humans against negative consequences!



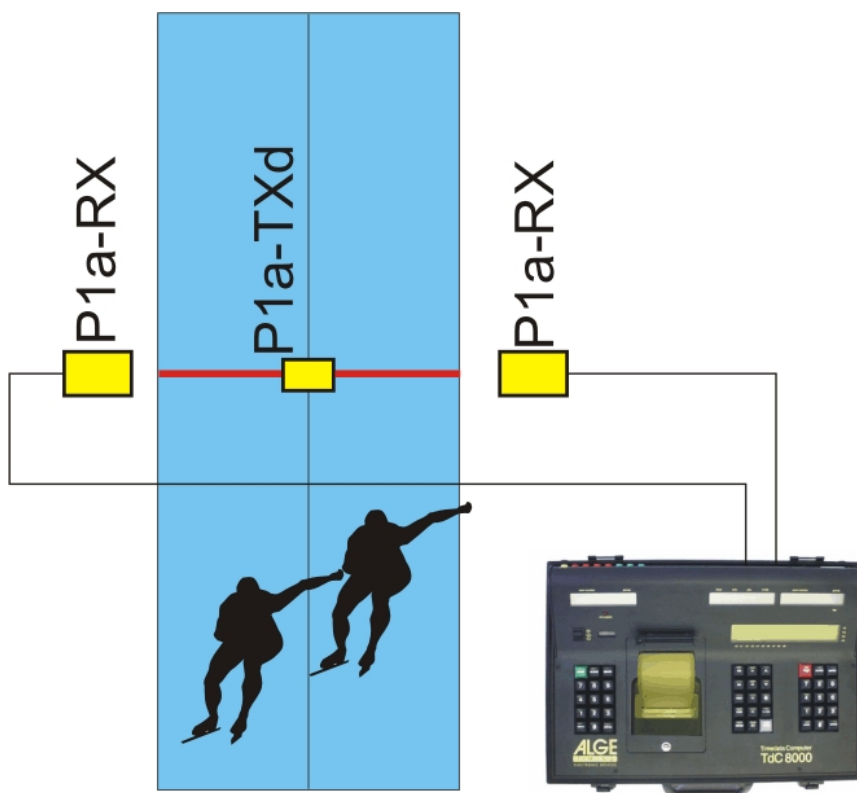
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The **ALGE** photocell RLS1n is made with most advanced electronic and for the employment on ice (Speed Skating).

Principal:

The transmitter (P1a-TXd) of the photocell sends a modulated infrared beam. The receiver (P1a-RX) controls the infrared beam and makes an impulse for each interruption.



Power supply of the photocells P1a-TXd / RX:

P1a-TXd:

Internal Accu which can be load by a PS12A.
Aprox. 16h working time with fully loaded accus.

P1a-RX:

Up to 100 m cable length from the ALGE timing device by a 3-wire cable (this cable includes the power supply and impulse line).

Instrument reading P1a-RX:

about 1/4 in the white field: not adjusted or beam interrupted
green field: adjusted to the reflector and beam is not interrupted

Adjustement of the Photocell:

Place the P1a-TXd in the middle and the P1a-RX on both sides of the course (picture on side 2) and align approximately.

Connect the P1a-RX with the Timer and switch it on. Also press the button of the P1a-TXd to switch it on.

To adjust the photocells correctly, move it so long till the pointer is on the green field of the instrument and it doesn't oscillates

If you interrupt the infrared beam of the photocell you hear a beep of the timing device. The needle of the lever moves into the white area.

Technical Datas of the photocells**P1a-TXd**

Range:

- ☞ 2 to 25 meter

Reaction time:

- ☞ 300 µs, 2 ms fix adjustet

Power supply:

- ☞ external 12VDC stabilized
- ☞ 6 Nicd Accu (NC-TIMY)

Power consumption:

- ☞ ca. 40 mA

Working time with internal accus:

- ☞ ca. 16 hours

Measurement:

- ☞ 192 x 127 x 55 mm

Wight:

- ☞ 1,63 kg

LED flashes green:

- ☞ Accu power higher 6,8V

LED flashes orange:

- ☞ Accu power between 6,1V and 6,8V
- ☞ Accu need to be loaded

LED flashes red:

- ☞ Accu power under 6,1V

P1a-RX

Range:

- ☞ 2 to 25meter

Reaction time:

- ☞ 300µs, 2 ms fix adjustet

Output:

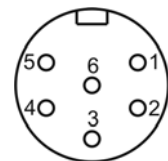
- ☞ NPN Transistor, Open Collector, aktiv low

Power supply:

- ☞ external 5VDC

DIN-Socket pin connection:

- 1 signal out
- 2 signal out
- 3 GND
- 4 not in use
- 5 +5VDC



Measurement:

- ☞ 136 x 187 x 55 mm

Wight:

- ☞ 1,01kg