

Timing



ALGE-TIMING

Speed

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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1 Keypad and general operation

Please see Timy manual „GENERAL“.

2 Description of display indication

Description of settings:

- ☞ Startnumber and startnumber-automatic
- ☞ Measured speed
- ☞ Adjusted distance
- ☞ Speed unity
- ☞ Measuring-direction



If the start-photocell is triggered out, the display will show instead of “0.00” a dotted line. Timy will calculate from the adjusted distance and min. speed, how long one cycle will take at maximum. If this time will be crossed, the display will show “0.00” and is ready for the next measurement.

2.1 Startnumber and STN-automatic

Here you can adjust the requested start number. You should always confirm it with one of the “OK” buttons. You can use the same startnumber for several times.

The startnumber-automatic can be adjusted at “Main menu”, “General”, “STN-automatic”.

Arrow upward means that the startnumber will increase for one number.

Arrow downward means that the startnumber will decrease for one number.

If no arrow is visible then the automatic is deactivated.

2.2 Adjustments in subprogram SPEED

Here you can adjust and change several setting which will also be indicated at the display

Push the button  . Push the buttons  or  as long as you will see menu point „SPEED“. You can make adjustments at the following points:

- ☞ distance
- ☞ direction
- ☞ unity
- ☞ min. speed
- ☞ max. speed
- ☞ Horn Level
- ☞ Meas-Points
- ☞ print times

2.2.1 Distance

Here you should indicate the distance in meter to the mounted photocell before.

Input of distances with 0.1 meter accuracy is possible.




The larger the distance between the photocells, the more accurate the measurement.

Confirm the indicated distance with one of the two „OK“-buttons.

2.2.2 Directions





You can chose between three settings:

Hint: For Speed 2 (C2-C3) and Speed 3 (C4-C5) both directions are accepted.

-  C0 < -- > C1 Measuring from both directions possible
-  C0 -- > C1 Measuring only of direction Start RLS (green cable or C0)
-  C1 -- > C0 Measuring only of direction Stop RLS (red cable or C1)

2.2.3 Unit

Here you can adjust the unity of the speed. This setting is valid for all measurement points.

-  km/h kilometres per hour
-  mph miles per hour
-  m/s meter per second
-  time

2.2.4 min. speed

In this program you can adjust the minimum speed for a valid measurement. This setting is valid for all measurement points.

2.2.5 max. speed

In this program you can adjust the maximum speed for a valid measurement. This setting is valid for all measurement points.

2.2.6 Horn Level

If the measured speed is higher than the adjusted value there is a horn signal on the optionally available horn speaker DL25.

To switch off this function you have to adjust the value to 0 km/h.

2.2.7 Meas-Points

The Timy can measure up to 3 different speeds with 6 photocells.

You have to adjust here the amount of measuring points you like to use.

All 3 Speeds are shown on 3 different display boards.

Main Speed:	C0-C1	Display Address 0
Speed 2:	C2-C3	Display Address A
Speed 3:	C4-C5	Display Address B

2.2.8 Print times

If it is adjusted to „OFF“, it will print only the startnumber and the speed.

If it is adjusted to „ON“, it will print additionally start- and finish-time as well as the run time.

2.2.9 Showing the top speed

Every time when it gives a new best top speed, it will be shown on the display board (address 4) and the printer of the Timy.

3 Connection of the photocells

There are several possibilities to connect the photocells to a Timy.

Since the Timy has just one photocell-plug, you have to use an adapter if the photocells should be supplied by the Timy.

- ☞ adapter 018-- 3 plugs for RLS
- ☞ adapter cable 160—2 2 plugs for RLS

The photocells can also be connected to the Timy with help of a double-pole cable. But then, you will require batteries for the photocells. Then you have got the advantage, that the batteries or accumulators of the Timy won't be empty that fast.

Of course, you can also mix these two versions. Pay attention to the fact that the start cable (002-xx) and plug C1 or the stop cable (001-xx) and plug C0 will be used.

If you measure more than 1 Speed you have to use the MC9 to connect all 6 photocells. In such case it is also required that the photocells are powered with batteries.

4 Ballspeed



5 Construction of the system

The Ballspeed-System consists of several single components, which must be screwed together first.

- ☞ 2 U-tracks with gum-feets and star handle screw for mounting of the photocells
- ☞ 1 reflector for RLS1
- ☞ 1 reflector for RLS3
- ☞ 1 sheet plate for RLS3
- ☞ 1 RLS1n without reflector, bracket BBG and cable
- ☞ 1 RLS3c without reflector, tripods and cables
- ☞ 1 Timy XE
- ☞ cable 160—2 Timy RLS extension
- ☞ cable 001-10, 002-10 and 206-10
- ☞ standard-GAZ 315 PP4

Important:

Connect green cable to PR1a and red cable to RLS3c.

The Timy can work without batteries, since he will be supplied by cable 206-10, which is connected to the display board.

Please pay attention that the accumulators of the display board are fully loaded before the event starts.

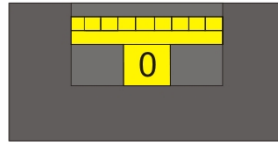
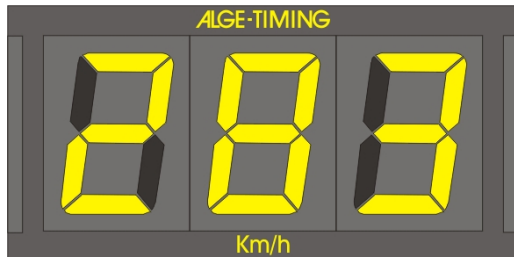
The two U-sheet plates must have at least a distance of 1m between each other therewith the photocells will work.

But we always recommend a bigger distance between them to avoid possibly damages of the system by accidentally missing.

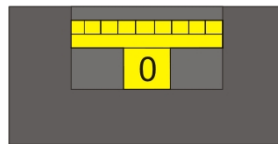
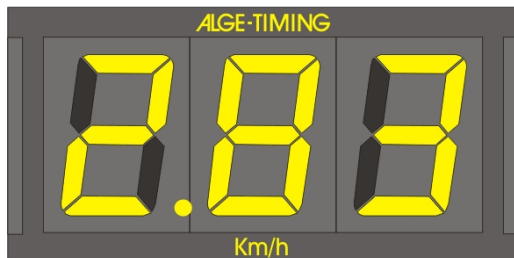
It's necessary to adjust the right distance of 1m on the Timy. This is the distance between the two photocells.

6 GAZ / D-LINE adjustment

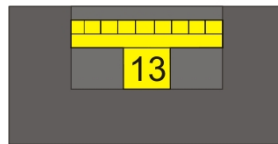
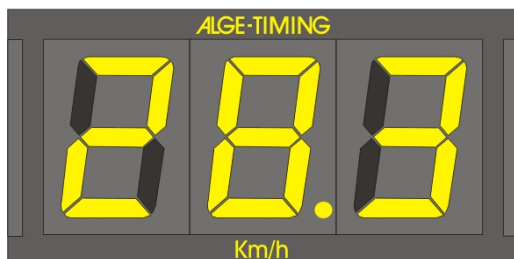
This is only for GAZ with 3 digit and D-LINE starting from the software version V3.6



Switch in
the middle

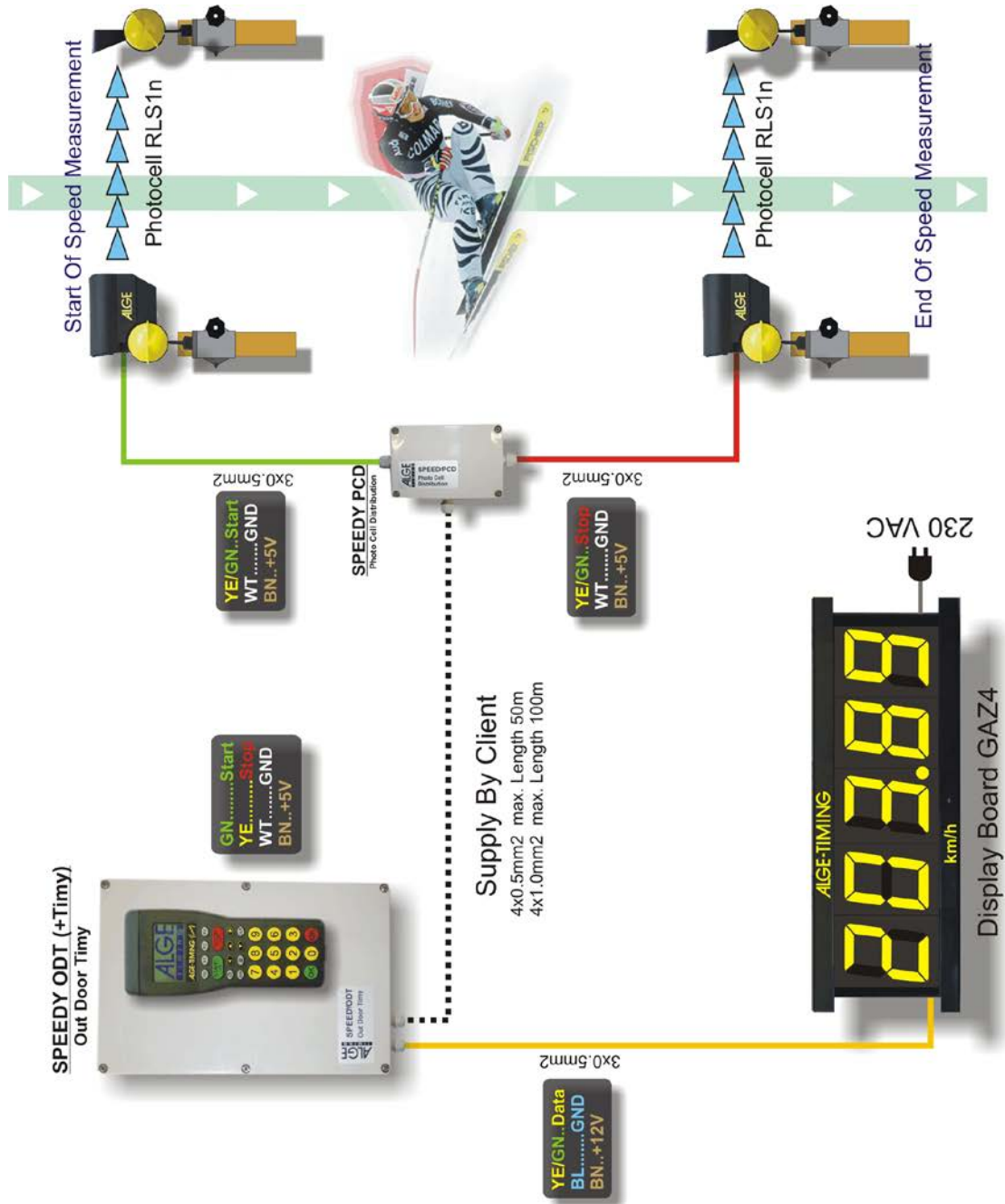


Switch in
the middle



Switch
down

7 Connection Diagram Timy Speedy



30.11.2005 Burger T.