

SF3

ALGE-TIMING



Manual
Selftimer SF3

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 Cabling for the SF3 System

Depending on the type of SF3 system you have a different cabling is required.

1.1 SF3L



The SF3L system is delivered without coin collector. The start unit only serves for clearance of the course.

The start unit should be placed near the startgate at a pole or on a wall.

A two-core cable is required connecting finish and start with a maximum loop resistance of 180 Ohms.

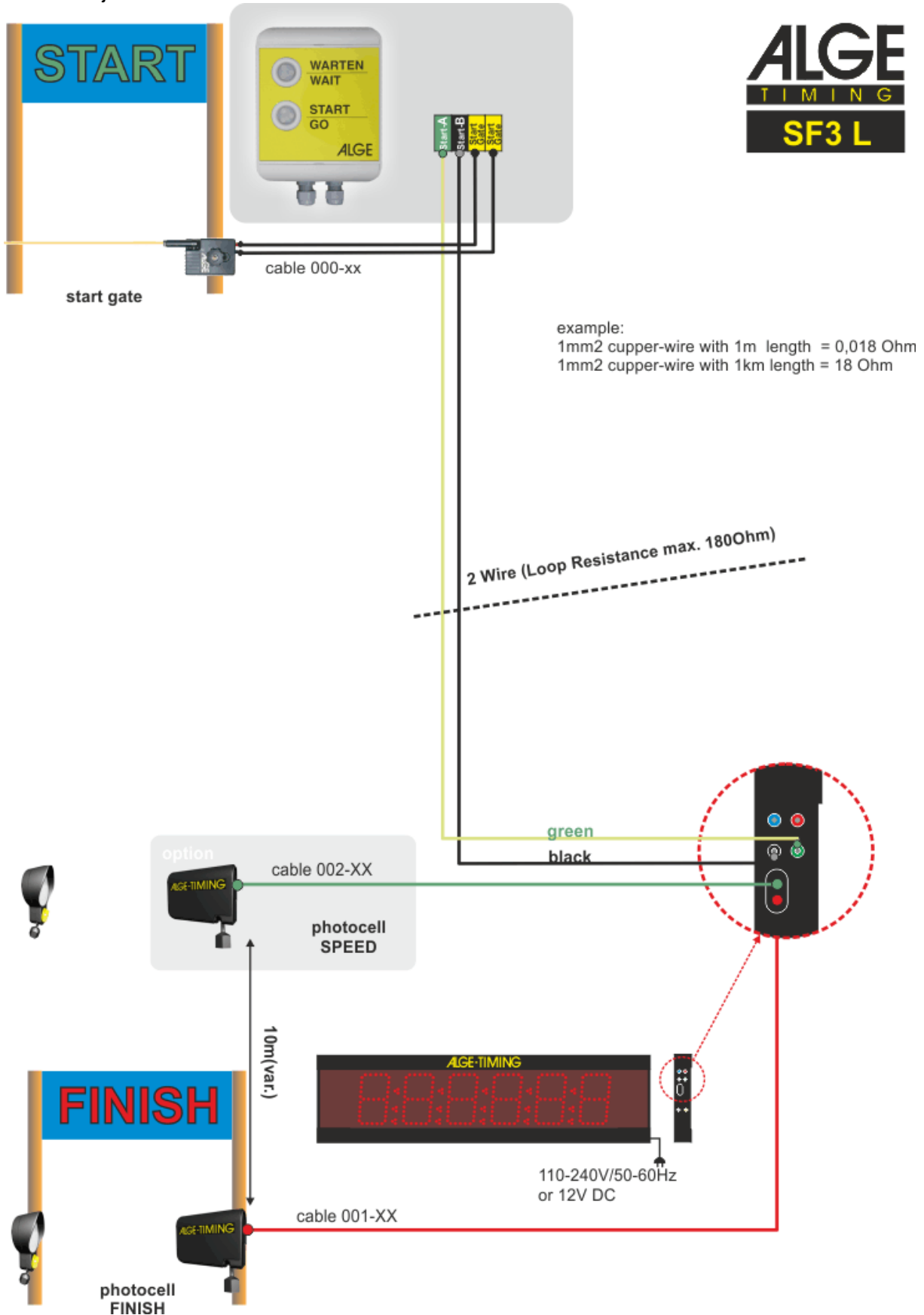


ATTENTION! When fixing the start-finish connection make sure that the polarity is correct!

1.1.1

1.1.1 SF3 Cabling with Startgate and Photocell

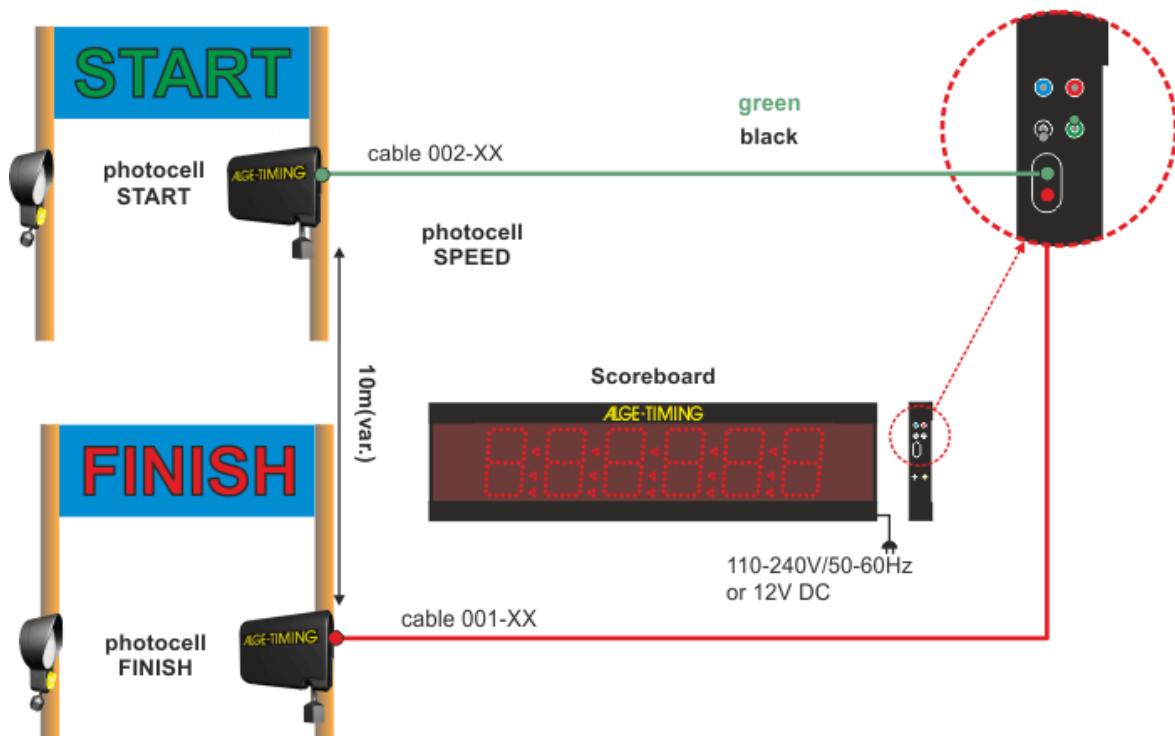
- Adjustment: SF=1



1.1.2 Cabling with Photocells

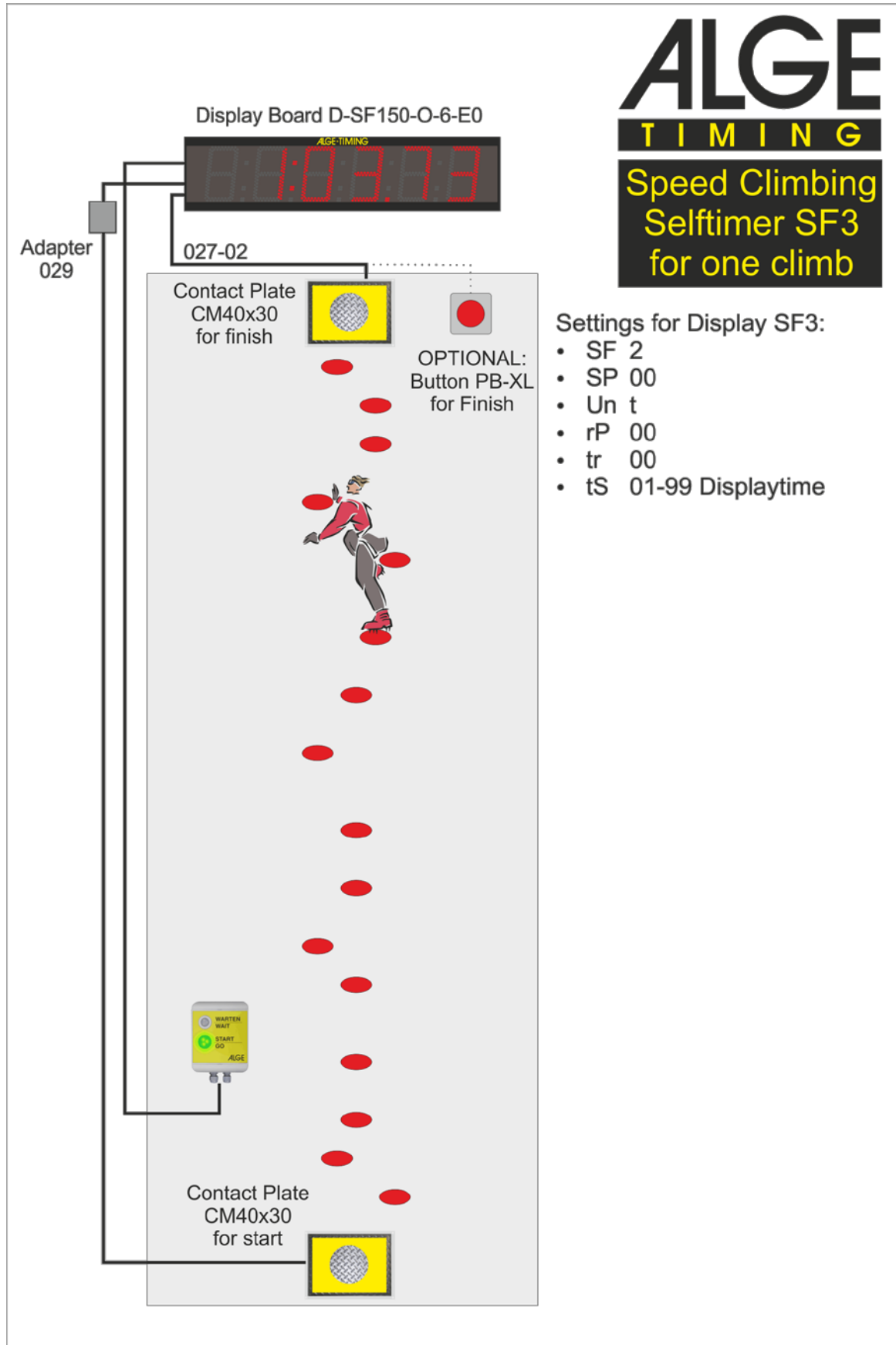
This setup is used to measure the speed or time without payment. The start and finish is triggered by photocells.

- Adjustment SF=2



Optional it is possible to integrate the Start Unit SF3L in the above shown layout. The connection must then be effected with the black and green banana socket.

1.1.3 SF3 Cabling for Speed Climbing



1.2 SF3P



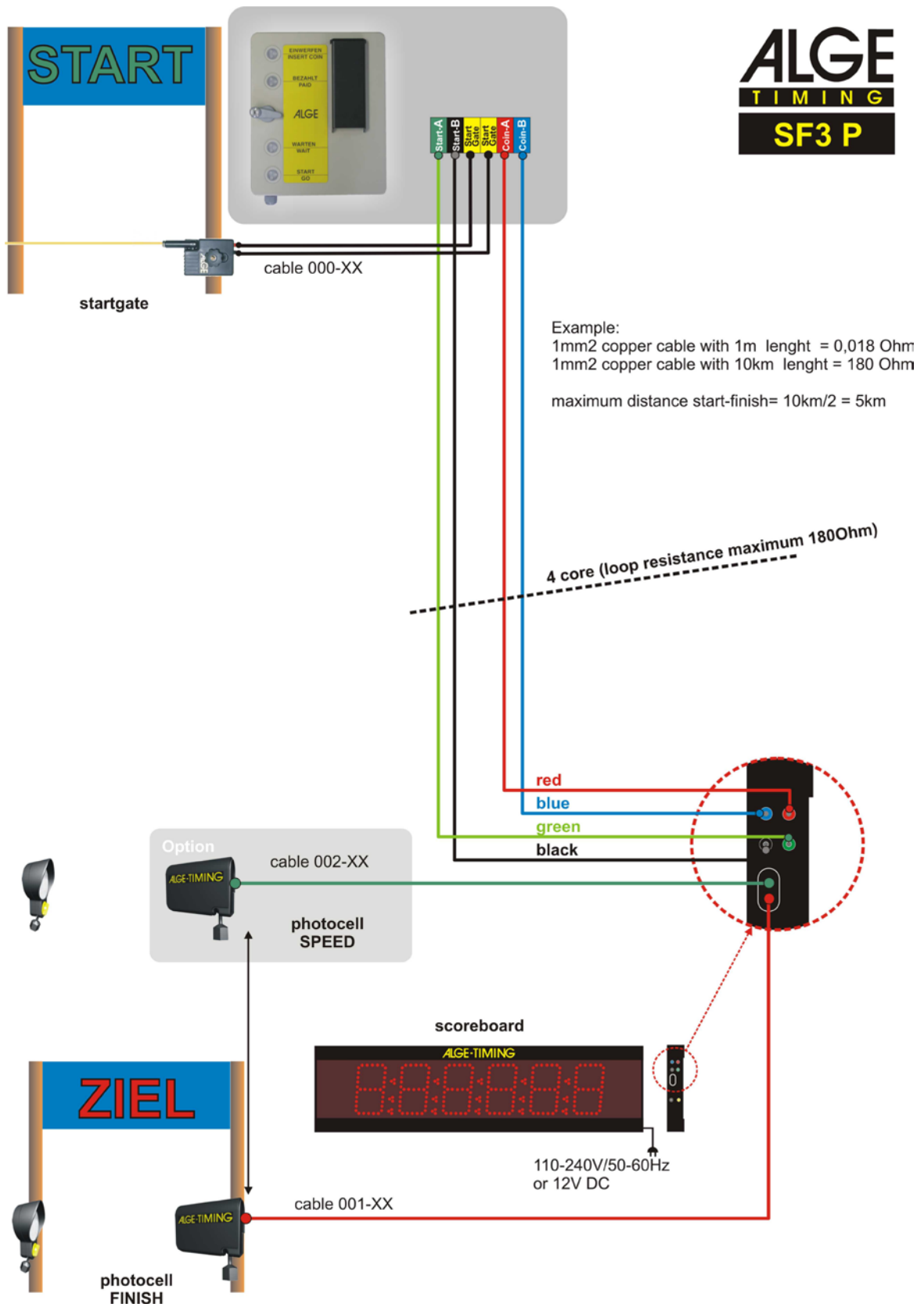
The SF3P system is equipped with a coin collector. The start unit serves for clearance of the course as well as for payment.

The start unit should be placed near the startgate on a pole or at a wall.

A four-core cable is required connecting finish and start with a maximum loop resistance of 180 Ohms.



1.2.1 SF3P Wiring Diagram



2 Settings for the D-LINExxx-x-SF3

On the next pages all possible settings of the SF3 system are described.

2.1 Selftimer Settings

For entering the settings mode of the display you have to keep the button pressed until the first parameter shows on the display. If you then release the button the parameter first blinks for a few seconds and then does the corresponding setting. The value blinking can be switched to the desired value by shortly pressing the button again. When the parameter is blinking again the menu can be closed. For this you have to step through the menu.

2.1.1 SF3 Mode

2.1.1.1 **SF0** Selftimer OFF (Default)

This setting switches off the selftimer mode completely. In the menu only the parameters of the standard D-LINE can be selected.

2.1.1.2 **SF1** Selftimer Time and Speed

In this mode the Selftimer is operated with the start unit.

It is possible to have several racers on course. After the limit time **LL** expires the start is free for the next racer.

Until version 4.8 this was the adjustment **SF1**

2.1.1.3 **SF11** Selftimer with one racer

In this mode the Selftimer is operated with the start unit.

Only one racer can be on course. After a racer crosses the finish line or after the limit time **LH** expires the start is free for the next racer.

2.1.1.4 **SF2** Timer Speed or Time

In this mode the Selftimer is operated without start unit. Only time or speed is displayed. The limit times are set in seconds in this mode.

2.1.2 Payment

Adjust here the number of coins required for one run.

PA1 requires a payment of one coin for each run
PA0 free use

2.1.3 **PT** Total Coin-Counter

Shows the total number of coins collected.

If you press the button when the counter reading is blinking the counter is reset to zero. To read the counter just blocks the photocell. After 10 seconds the total counter reading is shown and subsequently the daily counter reading.

2.1.4 **Pd** Daily Coin-Counter

Shows the daily number of coins collected.

If you press the button when the counter reading is blinking the counter is reset to zero. To read the counter just blocks the photocell. After 10 seconds the total counter reading is shown and subsequently the daily counter reading.

2.1.5 **5t** Total Start-Counter

Shows the total number of starts (paid or not paid) of the SF3 (including racer that dnf). If you press the button when the counter reading is blinking the counter is reset to zero. To read the counter just blocks the photocell. After 10 seconds the total counter reading is shown and subsequently the daily counter reading.

2.1.6 **5d** Daily Start-Counter

Shows the daily number of starts (paid or not paid) of the SF3 (including racer that dnf). If you press the button when the counter reading is blinking the counter is reset to zero. To read the counter just blocks the photocell. After 10 seconds the total counter reading is shown and subsequently the daily counter reading.

2.1.7 Limit Time

2.1.7.1 **LL02** Limit-Time Minimum (default is 02: 10 seconds)

With this setting wrong impulses of the finish photocell can be prevented. In case a skier passes the finish before this time the clock is not stopped.

In **SF1** mode the value is internally multiplied by 5. A setting of 05 equates to 25 seconds.

In **SF2** mode the value is 1:1. A setting of 05 equates to 5 seconds.

If the limit time minimum is higher than the limit time maximum the parameter setting automatically returns to the other parameter and demands correction.

2.1.7.2 **LH20** Limit-Time Maximum (default is 20: 100 seconds)

If a skier does not reach the finish within this period his time is automatically stopped. This is necessary in case a skier leaves the course or falls.

In **SF1** mode the value is internally multiplied by 5. A setting of 05 equates to 25 sec.

In **SF2** mode the value is 1:1. A setting of 05 equates to 5 seconds.

If the limit time maximum is lower than the limit time minimum the parameter setting automatically returns to the other parameter and demands correction.

2.1.8 Speed

2.1.8.1 **SP10** Speed-Distance (10 is default)

Adjust here the distance between the speed photocell and the finish photocell in meters. The setting 00 disables the speed measurement.

2.1.8.2 **Un** Unit of Displayed Speed

This parameter serves for setting the desired unit.

- **UnC** Km/h (default)

Shows the measured speed in kilometers per hour with decimals if possible.

- **UnE** Km/h

Shows the measured speed in full kilometers per hour only.

- **UnE** M/s

Shows the measured speed in meters per second.

- **UnP** Mph

Shows the measured speed in miles per hour.

- **UnT** ss.th

Shows the measured time in seconds and hundredths. The maximum measuring period is 99.00 seconds.

2.1.9 Repeat/Displaytime

2.1.9.1 **RP02** Repeat (default 02)

Sets the number of display repeats. Time – speed – time – speed – time.

2.1.9.2 **ET04** Displaytime Time (default 04)

This setting adjusts the displaytime for the time.

2.1.9.3 **ES04** Displaytime Speed (default 04)

This setting adjusts the displaytime for the speed.

2.2 Malfunctions

2.2.1 **FL55E** RLS Stop Error

If the finish photocell is triggered for more than 10 seconds, the display shows the error message **FL55E** and the indicators at the start switch to 'Paid' and 'Please wait'. As soon as the photocell is aligned correctly, the system switches back to normal operation.

2.2.2 **FL55P** RLS Speed Error

If the speed photocell is triggered for more than 10 seconds, the display shows the error message **FL55P** and the indicators at the start switch to 'Paid' and 'Please wait'. As soon as the photocell is aligned correctly, the system switches back to normal operation.

2.3 Daytime/Date/Temperature Settings

With the following parameters daytime, date and temperature display can be configured.

- **ET** **Timeout for Daytime Mode**
If the selftimer does not use the set time the display automatically returns to daytime mode. Should no daytime be displayed, set the value to 00.
The set value is internally multiplied by 10. A setting of 6 therefore equates to 60 seconds.
- **HH** **Set daytime hours**
This parameter is used for setting the hours of the daytime
- **EE** **Set daytime minute**
This parameter is used for setting the minutes of the daytime.
- **SS** **Set daytime seconds**
This parameter is used for setting the minutes of the daytime.
- **dd** **Set the day of the date**
This parameter is used for setting the day of the date.
- **de** **Set the month of the date**
This parameter is used for setting the month of the date.
- **dy** **Set the year of the date**
This parameter is used for setting the year of the date.
- **Et** **Displaytime for Daytime**
Displaytime for the daytime. If this parameter is set to 0 it is no longer displayed.

- **ED** **Displaytime for Date**
Displaytime for the date. If this parameter is set to 0 the date is no longer displayed.
- **EE** **Displaytime for Temperature**
Displaytime for the temperature. Only available if the temperature sensor is connected.
- **0h** **GPS Offset Hours to GMT**
With this parameter, you can adjust the offset of the local time to GMT in hours.
- **0E** **GPS Offset Minutes GMT**
With this parameter, you can adjust the offset of the local time to GMT in minutes.

2.4 Area Settings for Temperature and Time

This area parameter is used to set the desired display mode of time and temperature. The below stated settings are possible. The first digit in the setting is for automatic setting of summertime, the second one for the display mode.

2.4.1 Summertime Change

The first digit of the area setting is responsible for the internal switching between summer and standard time.

- **RR0** **Change of Clocks**
No internal change, used for DCF-controlled clocks.
- **RR E** **European Summertime**
Summertime changing for Europe, used with internal clock, GPS or NTP-synchronization.
- **RR U** **USA Summertime**
Summertime changing for USA, used with internal clock, GPS or NTP-synchronization.
- **RR A** **Australian Summertime**
Summertime changing for Australia, used with internal clock, GPS or NTP-synchronization.

2.4.2 Time and Temperature Setting

The second digit of the area settings is used for the display mode of time and temperature - 12h, 24h, Celsius or Fahrenheit.

- **RR C** **Celsius and 24h**
Time in 24h mode and temperature in Celsius.
- **RR c** **Celsius and 12h**
Time in 12h mode and temperature in Celsius
- **RR F** **Fahrenheit and 24h**
Time in 24h mode and temperature in Fahrenheit
- **RR f** **Fahrenheit and 12h**
Time in 12h mode and temperature in Fahrenheit

2.5 Brightness

With this parameter brightness effects and settings can be adjusted. The first digit is for the appearance, the second one for the brightness.

- **Setting the First Digit**

The first digit defines the type of change between time and temperature. The fade-in changes over with brightness effects from time to temperature.

- **br 0** **Fade-in Off**

Fading is deactivated.

- **br 1** **Fade-in On**

Fading is activated. (Brightness is immediately switched on and off when changing.)

- **Setting the Second Digit**

This setting defines the brightness mode of the display.

- **br 8** **Manual setting**

The second digit of the brightness setting can be manually adjusted from 0 to 9. Value 0 is minimum brightness and value 9 is maximum brightness. This setting can also be effected by the menu of your TdC8001 or Timy.

- **br d** **Daytime depending Brightness**

Brightness is set automatically, depending on the daytime.

- **br A** **Light Sensor depending Brightness**

With this setting, the brightness is depending on the light sensor. If no light sensor is connected, the brightness is always maximum.

3 Technical Data

3.1 Interface

The D-LINE has an RS232 interface with which the data can be transferred to other display boards or computers. For connection of other display boards the cable 172-01 (amphenol to amphenol) or the cable 235-01 (amphenol to banana plug) is required. For data transfer to a computer you need the cable 145-02.

1.1.1 Protocol

Data format: 1 start bit, 8 data bits, no parity, 1 stop bit
Transfer Speed: 2400 Baud
Protocol: ASCII

xxxxxxxxxxxxxxxxxxxxxxxxxxxx(CR)

```
A          0.00 ..... Output before Start
B
A          0.00
B
.
.
.
A          33.9..... running time on Address A
B
A          34.3
A F        00:34.33 ..... Runtime from Racer on Address A
B F        SP 63.4 ..... Speed from Racer on Address B
A F        00:34.33
B F        SP 63.4
A F        00:34.33
```

3.2 Power Supply

110 – 240 V / 50 – 60 Hz,
or 12 V / 800 mA

4 Special Applications

4.1 Parallel Scoreboards

4.1.1 Time Display

For showing the time on a second display please set the following parameters.



4.1.2 Speed Display

For showing the speed on a second display please set the following parameters.



4.2 Supply with Solar Panels 12V

To use the system with a solar panel you should minimize the power consumption of the display.

Set the displaytime for time to 0.

Set the displaytime for date to 0.

Set the displaytime for temperature to 0.

Set the timeout time to your desired value. After expiration of this time, the display turns black and reaches the state of maximum power saving. As soon as the next skier starts, the display switches on again.

5 Standard D-LINE Functions

Each D-LINExxx-x-SF3 also works as a standard D-LINE scoreboard. For this set the parameter to 0 and all D-LINE parameters are available. For setting of your D-LINE please refer to the separate D-LINE manual.

The yellow-black and blue-white banana plugs work as input in this mode only.

Subject to changes

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