

FORWARD AND REVERSE SPORT ONE-TOUCH ELECTRONIC SPEED CONTROL



PROBE²

PRODUCT SPECIFICATION:

A. User can select either

- Forward, Reverse and Smart Brake (ie. Forward, Reverse Mode), or
- Forward and Brake (ie. Forward Only Mode)

B. LED indicator:

After ESC is turned ON (for 2 seconds):

Only RED LED flashing: Forward, Reverse Mode

Only GREEN LED flashing: Forward Only Mode

During Normal Operation:

Stop: GREEN LED ON

Forward (not full speed): All LED OFF

Forward (full speed): RED LED ON

Reversing (not full speed): All LED OFF

Reversing (full speed): RED LED ON

Brake (full brake): RED and GREEN LED ON

Overheat: Flashing of RED and GREEN LED

C. Thermal protection

D. Under Voltage Protection

With Under Voltage Protection circuit, it will Slow

Down the motor until Battery Voltage above 3.3V. As

a result, Receiver and Servo will never lose control

even if the battery is low

E. Electrical Specification:

Forward:

- Max instantaneous Current: 900A

- Max continuous Current: 46A

- On resistance: 0.0014 ohm

Backward:

- Max instantaneous Current: 600A

- Max continuous Current: 30A

- On resistance: 0.0021 ohm

PWM frequency: 2kHz

Operation Voltage: 4.8V – 7.2V

BEC: 5V/1A max at 7.2V

F. Smart Brake:

When Throttle is changed from Forward to Reverse, ESC will operate brake instead of reversing the motor immediately.

PROGRAMMING PROCEDURE:

WARNING: DISCONNECT THE MOTOR WIRE DURING ESC SETUP FOR SAFETY.

1. Calibrate the end-points to match the TX:

To set up the ESC, please follow the below procedure:

A. Set the throttle to stop position, press set-up key once,

Then both RED & GREEN LED will be illuminated

B. Push the throttle to max forward position, press set-up key once. Then only the GREEN LED will be illuminated

C. Push the throttle to max reverse position, press set-up key once. Then only the RED LED will be illuminated

D. Set the throttle to stop position again, press set-up key once to save data and exit program mode. Then the GREEN LED will be illuminated

Remark:

A. If the receiver does not receive signal, ESC can not enter the program mode

B. During program mode, the motor will remain stopped.

C. If a key is then not pressed for between 4 and 5 seconds the ESC will exit the program mode and settings will not be saved

2. Select Forward Only or Forward/Reverse Mode

Just after ESC is turned on, the LED will flash for 2

seconds and the colour of LED indicates which mode the ESC is operating in, as explained in the Product Specification section B:

To select the ESC operating mode, please follow this procedure:

A. Turn off the ESC and Turn on the TX

B. Press and hold the Set-up Key, then turn on the ESC

C. The ESC will change to another Mode and the flashing LED colour will indicate the selected operating mode.



CML Distribution, Saxon House, Saxon Business Park, Hanbury Road, Bromsgrove, Worcestershire. B60 4AD.
Email: info@cmldistribution.co.uk Website: www.cmldistribution.co.uk