

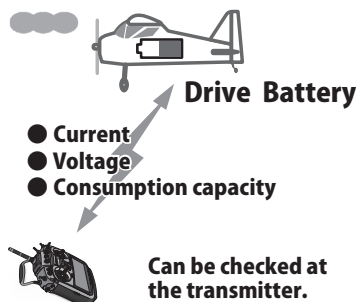
Telemetry current sensor SBS-01C

Instruction Manual

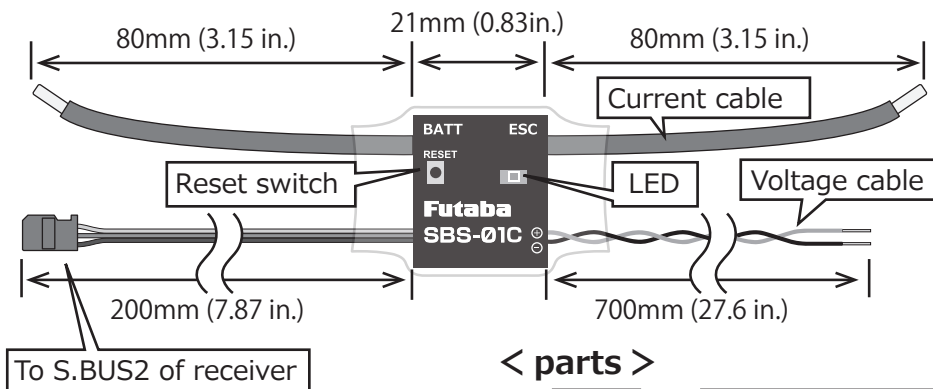
● Applicable systems

- Futaba T18MZ-WC
- Futaba T18MZ V2.6 ~
- Futaba T18SZ V1.4 ~
- Futaba T4PX V1.4 ~ (May, 2016)

Thank you for purchasing Futaba's SBS-01C Current Sensor. Please read this manual thoroughly to ensure proper current sensor performance. We also encourage you to retain the manual for future reference.



*Solder welding is required for instruction.



< parts >



Specification

Use : Current sensor
 Detection item :
 Current (0A ~ 150A)
 Voltage (0V ~ 70V)
 Consumption capacity (0mAh ~ 32767mAh)
 *Measurement is impossible less than 1A (Current).
 Weight : 23g (0.81 oz.)
 Voltage : DC 3.7V ~ 7.4V
 Current : 0A ~ 70A
 70A ~ 150A (within 10 seconds)

Function

● Telemetry data :

The SBS-01C can monitor and display the in-flight current, voltage, and current consumption of the drive battery.

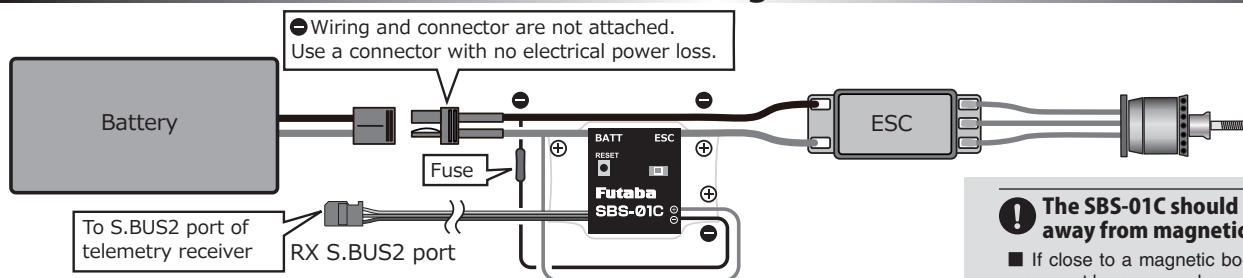
Slot Number Setup

Please note that the proper default slot for this accessory is number 24. This sensor uses 3 slots, starting at 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 21, 24, 25, 26, 27, 28, 29. Information on how to change the slot assignment is included in the transmitter's manual.

LED Indication

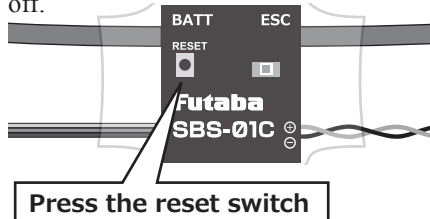
Green	Normal operation
Red	No signal reception
Green/Red	When setting up the slot
Green/Red Alternate blink	Unrecoverable error

Wiring



Reset

Every time it's used, current consumption is added to SBS-01C. SBS-01C does not reset even if a connection is removed or it is turned off.



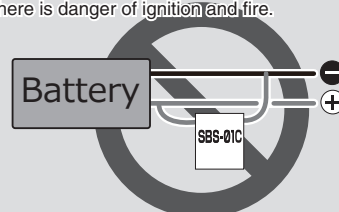
The consumption capacity returns to 0. When you'd like to know the consumption capacity of 1 flight, please reset before a flight.

*Power supply off isn't done for 5 seconds after a reset. Because data isn't preserved.

⚠ WARNING

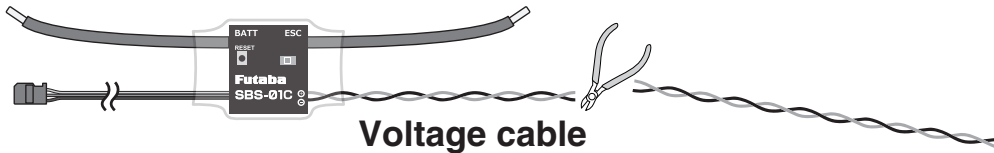
- ❗ **To utilize the SBS-01C, connect it to the S.BUS2 port of the Futaba telemetry enabled receivers.**
 - The SBS-01C will not function properly if connected to an S.BUS port or other channel ports.
- ❗ **Ensure that the unit is mounted in an area that will eliminate exposure to fuel, water and vibration.**
 - As with any electronic components, proper precautions are urged to prolong the life and increase the performance of the SBS-01C.
- ❗ **Allow a slight amount of slack in the SBS-01C cables and fasten them at a suitable location to prevent any damage from vibration.**
- ❗ **Connect the connector polarity properly.**
 - If connected in reverse, explosions or fire could occur.
- ❗ **Insert the connector securely.**
 - If the connector works loose during model operation, control will be lost and cause the potential for extreme danger.

- ❗ **The SBS-01C should be mounted away from magnetic bodies.**
 - If close to a magnetic body, the DC current may not be measured correctly.
- ⊘ **Do not install the SBS-01C in a flammable location.**
 - There is danger of ignition and fire.
- ❗ **To ensure that the SBS-01C is functioning as desired, please test accordingly.**
 - Do not use until inspection is complete.
- ❗ **Be careful the battery Lost.**
 - The consumption capacity is indicated. (It isn't the present battery capacity.)
- ⊘ **Don't apply current higher than rated current to SBS-01C.**
 - SBS-01C may break down and fall.
- ⊘ **Do not use the SBS-01C with anything other than R/C models.**
- ⊘ **Never connect current cable during + - of a battery.**
 - There is danger of ignition and fire.

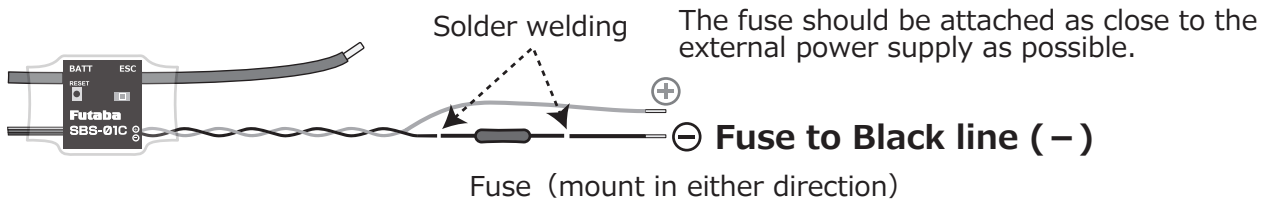


Installation Method

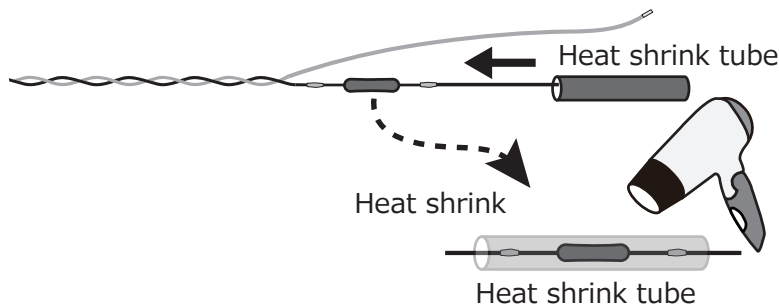
- ① Measure the cable and then cut it to the desired length.



- ② Cut approximately 30mm of the black (-) line from the cable. Solder the fuse inline on the black (-) wire and then reattach the section of wire that was previously removed. The fuse should be attached as close to the external power supply as possible.



- ③ Place a piece of heat shrink tubing over the fuse, ensuring that it covers the soldered areas. Shrink the tubing snug to the fuse and the wire using a heat gun.

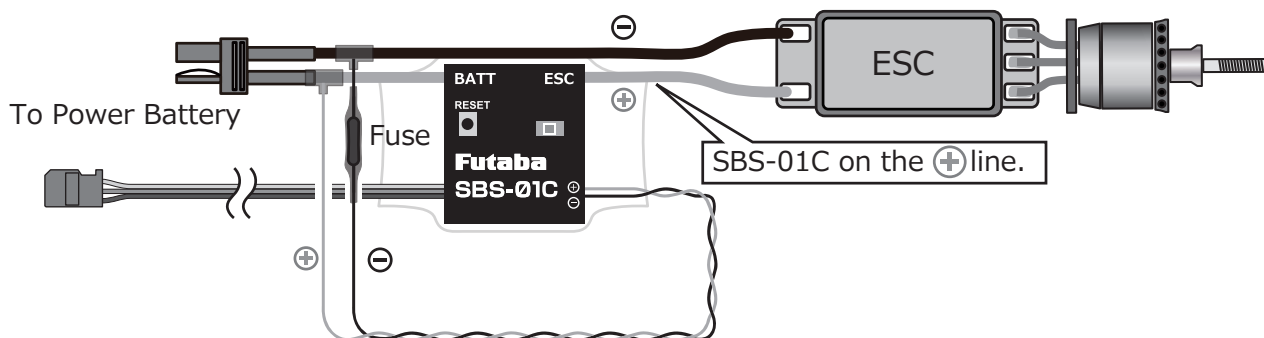


WARNING

! Be careful to avoid burns from high-temperature work.

- ④ The cable should be connected as shown in the diagram below.

The connection is affixed to the ESC on the wires that are connected to the battery by soldering them and then protecting them with heat shrink.



- ⑤ The manual for the Telemetry system should be referred to after the setup is complete. Check to make sure it functions as desired and that it provides the correct data on the display.