

Thank you for purchasing Futaba's SBS-01RO RPM sensor. This sensor, used in conjunction with a telemetry enabled transmitter/receiver, is used to indicate the number of rotations (propeller, rotor, etc.) of the item to which it is attached. The number of rotations of a model in the sky is a system which can be checked with a transmitter etc. To maximize your enjoyment, and to ensure proper sensing, please read through this manual thoroughly. We also encourage you to retain the manual for future reference should the need arise.



The SBS-01RO may only be used with telemetry enabled receivers that offer S.BUS 2 port. Please refer to the manual(s) that accompanied your transmitter and/or receiver for proper connection methodology.



Brightness

The SBS-01RO uses an optical sensor. To operate properly the prop or rotor being measured must be fairly brightly lit. Typically the sensor will not operate properly indoors, on cloudy days or in early mornings/late evenings when the angle of the light striking the prop or rotor is bad. When one of these conditions exist, the RPM will be displayed as 0.



Propeller/Rotor

Use : RPM Sensor Length : 160mm (6.3") Weight : 4.9g (0.173oz) Voltage : DC3.7 \sim 7.4V Range : 360 \sim 300,000RPM/blades

For Helicopter

The SBS-01RO is not optimal for helicopter use due to the large distance between the rotor and sensor, as a result, the reading can be unstable. We recommend the **SBS-01RM** magnetic sensor be utilized for helicopters.

ID Number

Each sensor has a unique ID number printed on it. If more than one of the same type of sensor is utilized in a model, the ID will need to be input into the sensor menu of your transmitter.

Sensor Mounting Example [Airplane]



WARNING

Please note that the proper default slot for this accessory is number 2. Information on how to change the slot assignment is included in the transmitter's manual.

Installation

[Helicopter]

Number of blades

The sensor defaults to two blades. If the prop/rotor has more than 2 blades this option must be changed in the transmitter. (Refer to the transmitters manual.)



Use strong double-sided tape

or screws to mount to the

fuselage of an airplane.

0

*Mount the sensor as close as possible to the

*The color of the prop or rotor could cause the

*The SBS-01RO only works in sunlight.

The distance between the sensor and the surface of rotation less than 150 mm.

Sensor

Less than

150 mm

(5.9")

RPM to not be detected.

Surface of

revolution

prop or rotor.