

- be cases where mistaken detection occurs. \bigcirc Only use the magnets included with this product.
- Do not disassemble or modify the product.
- Do not get the product wet with water. Do not use the product in environments where condensation occurs.
- Do not use any component which has been damaged, included wires or connectors.

Detection System: Magnetic Detection System (Hall IC) Magnet Dimensions: **04mm x 2mm** (Samarium-cobalt magnets)



Operation Confirmation and Cautions

- ① Connect the TLS1-ROT referring to the diagram on the
- ③ Manually rotate the propeller or main gear that the magnets are mounted on and confirm that the LED

The LED will light only at the moment when the magnets pass the sensor. If the magnets are kept stationary above the sensor, the LED will not light. Rotate the parts that the magnets have been attached to a number of times and

Be sure to remove the bind plug before using the product.

In the situation of receivers that require bind plugs during the binding procedure, it will only be possible to carry out two-way communications with the sensor if the bind plug is removed after completing the binding procedure. Be certain to remove the bind plua before use.

In the situation where the transmitter's [TELEMETRY] function has a PROPELLER setting, match the PROPELLER setting value with the number of magnets installed.

In the case where one magnet has been affixed, then set **PROPELLER: 1**

• In the case where two magnets have been mounted, then set **PROPELLER: 2**

* In the situation where two magnets are to be installed, be sure to install them in opposing positions to achieve a balance.

Installation Method

- Securely fix the magnets to the aircraft using instant adhesive.
 - The magnets have polarity. Fix the magnets so that their white painted surface is located on the opposite side from the sensor.
 - Allow an adequate adhesive hardening time for fixing the magnets.
 - ▶ For gas powered helicopter, it may be possible to fix the magnets directly to the clutch bell. (Refer to the figure below.)
- Fix the sensor IC perpendicular and close to the magnet (Recommended distance: 3mm to 5mm).
 - Securely fix the sensor so that it will not be displaced by vibration.
- Also securely fix the TLS1-ROT main unit to the aircraft body.
 - ▶ Firmly fix the sensor IC and main unit harnesses so that they will not become caught up in the rotating parts.
- 4 After fixing to the main unit, connect the harness from the TLS1-ROT to the SENS terminal (or the DATA terminal) of the receiver.
 - Use a Y harness for making the connection.
 - ▶ In the situation where only one type of sensor is connected, communications will be possible by connecting the battery to a spare channel on the receiver. Be certain to directly connect the sensor main unit to the SENS terminal

RG831B Connection Example • Connect to the BIND/BATT/SENS terminals.



For further questions or inquiries please contact your local dealer or JR distributor in your country.

