

## **RADIO-ENERGIE TACHOGENERATORS**

**Transdrive is Radio-Energies Sole UK Distributor for Tachogenerators and Encoders.**

### **IMPORTANT NOTICE**

Tachogenerators are precision rotary speed measurement devices which must be handled with care by qualified staff. These devices are manufactured according to standards and rules in force. The company is accredited to ISO 9001 and products comply with EU Declaration of Conformity.

## **INSTALLATION**

### **GENERAL ADVICE**

The assembly interfaces must be in conformity with the advice given in the sales catalogue associated with the product (tolerances on concentricity and perpendicularity).

It is advisable to ensure that the 2 shaft ends are correctly aligned. The quality of the signal and the mechanical life duration of the equipment depend on compliance with this condition.

### **IMPORTANT ADVICE**

It is strongly recommended not to remove the rotor from the tachometer frame, as this will alter the calibration of the tachometer.

### **MOUNTING**

It is advisable to avoid shock on the sensor during assembly. The use of a semi-flexible and balanced coupling is recommended.

1. Engage the coupling on the shaft end of the equipment, if necessary while heating it
2. Lock the coupling on the 2 shaft ends.
3. Attach the equipment to the support by means of suitable and locked screws or bolts. When a flange is used, check the peripheral contact of the two interfaces. When a foot-mounting is used, check the contact between the equipment feet and the chassis (peel-off shims may be used).
4. If possible check the rotor turns freely.

### **CONNECTION**

Before connecting, it is advisable to disconnect the data processing network interconnection cable.

1. Remove the connector screws and cover.
2. Insert the cable in the cable gland, use the correct cable diameter.
3. Make electrical connections.
4. Install the cover and screw of the connector.

5. Tighten the cable gland.

#### **CAUTION**

The proximity of the ferromagnetic masses may cause a drop in generator voltage.

### **MAINTENANCE**

#### **BRUSHES**

Ensure that the brushes slide freely in their holder.

The dust which accumulates on the brush-holders should be removed using oil free compressed air.

The brushes should be changed when their length due to wear reaches about 70% of the original length.

In case of removal of the brushes for inspection, their original position should be correctly noted, in order to re-insert them in their original position.

#### **COMMUTATOR**

The patina formed underneath the path of the brushes should not be removed. If the Commutator needs to be cleaned, a clean cloth, lightly moistened with alcohol should be used.

The use of abrasive substances is strictly forbidden.

#### **LIFE TIME**

In standard conditions, the life time is more 20,000 hours at a speed of 3000 rpm.

#### **GREASING**

The tachometer is fitted with bearings that are sufficiently greased for their operating lifetime. No supplementary greasing is necessary. Under normal operating conditions, the bearing grease can withstand temperatures from -30 deg.C to 100 deg.C.