

TF-M-PT100-VAL Temperature Sensor



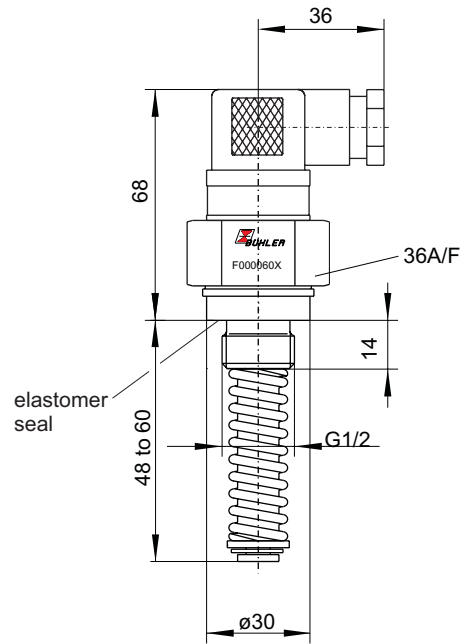
The reliable monitoring of bearing temperatures demands temperature sensor with special construction features. These special requirements concern the temperature transition point from the bearing housing to the temperature sensor. Due to the materials and the shape of the bearing housing it may be that the temperature sensor loses contact with the bearing surface because of thermal expansion. The resulting air gap invalidates the system output.

The sensor TF-M-PT100-VAL is constructed in such way that the temperature sensor is pressed with a low initial force onto the surface so that an eventual deviation of the dimension due to heat expansion is axially compensated. A PT100 is used as the sensor. This is a resistor whose value changes proportionally to the temperature, producing a continuous signal. The unit consists of two modules which can be separated from each other. The "wet" part remains in the reservoir whereas the "dry" part can be inspected if necessary, thus eliminating the need to drain the reservoir for maintenance. The switch is fitted with an elastomer seal.

- **12mm variable adaptation with 25 Nm starting torque of the tube**
- **easy to install**
- **electrical inner-part easy to remove**
- **with DIN connector (allows adjustment of cable orientation in 90° steps)**
- **elastomer seal fitted as standard**

technical data

	TF M-PT 100
material	anodised aluminium / spring steel
seal	NBR
max. operating pressure	1 bar
length	48 - 60 mm
starting torque	25 Nm
<hr/>	
sensor	PT 100 class B DIN / IEC 751
measuring range	-40 °C to +100 °C
opera. temperature	-40 °C to +100 °C



connector

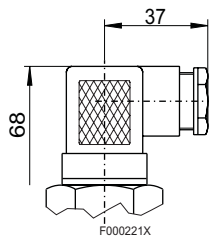
protection class
cable glance

other connector
on request

max. power rating

M3
3 pol. + PE DIN
DIN 43650

IP 65
Pg11



230 V AC/DC

order information

Type
TF-M-PT100-VAL-M3

part-no
1892599