

## Potentiometer F and FF

### 1 General

The resistance value of the potentiometer can be used to determinate the position of the actuator. This resistance value can be also transformed in a current signal 0(4)...20 mA through proper electronics (ESG). There are two existing models. single potentiometer (Figure 2 and 4) and dual potentiometer (Figure ?? und 5), both are available in the standard version (Figure 2 und 3) and in the explosion-proofed version (Figure 4 and 5).  
 the wiper is connected to the middle solder lug at the standard version respectively to the black wire at the explosion-proofed version.

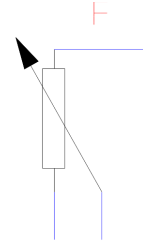


Figure 1: Symbol

### 2 Dimensions

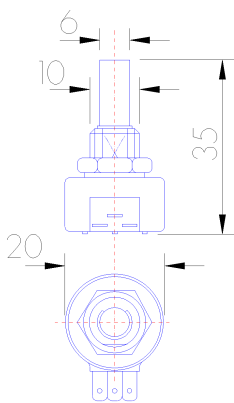


Figure 2: F(Standard)

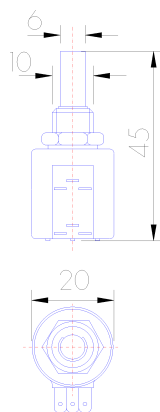


Figure 3: FF(Standard)

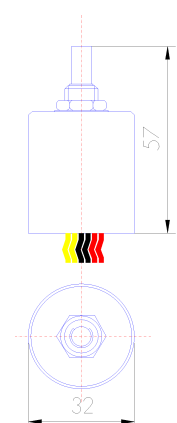
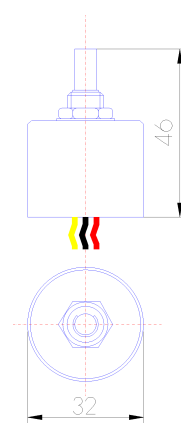


Figure 5: FF(Ex)

### 3 Technical Data

Resistance ..... 100, 200 oder 1000 (5%)  
 Power rating (siehe Figure 6) ... max. 2W (bei max. 40 °C)  
 Slide wire current ..... max. 100mA  
 Angle of rotation ..... 270°  
 Life ..... 100 000 cycles

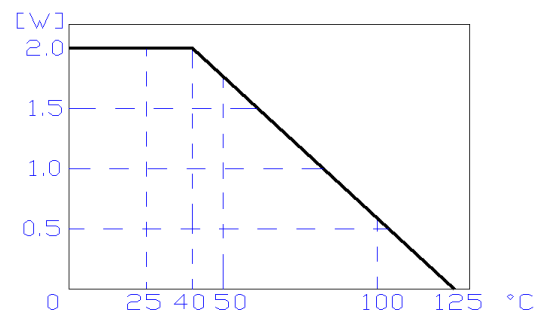
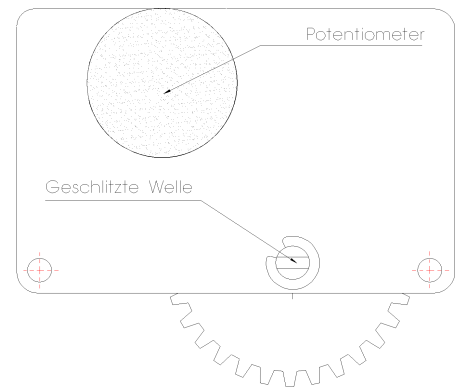


Figure 6: Power rating chart

## 4 Adjusting instructions

The potentiometer itself does not need to be adjusted. But, because of the subsequently added electrical evaluation equipment, is favourable to adjust it like following instructions. Align the actuator in the "CLOSED-Position". Turn carefully the shaft counterclockwise (Figure 7) with a screwdriver to the end. (In case of counterclockwise closing actuators turn the shaft clockwise to the end).



**Figure 7:** Potentiometer with position transmitter