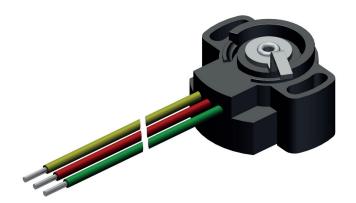
# Rotay Transducers Potentiometer with radial adjusting arm

PMR 411 model



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- Designed for the measurement and transmission of valve, flap, threadle and pedal positions in vehicles
- Oil, petrol, water and anti-freese liquid resistant
- Conductive plastic long life resistant element (up to 10 or 50 million cycles)
- Measurement range 95° \*
- Operating temperature range -40° C to +125° C
- Protection grade IP 65

### Construction

Adjustment by radial arm, with integral spring return - with two mounting holes to allow 20° case adjustment - electrical connection via three lateral leads 300 mm long.

### **Mechanical data**

■ Mechanical rotary angle: 125 ± 5° \*
 ■ Stop strength: ≥ 60 Ncm
 ■ Direction of pring return: CCW

■ Force of spring return

□ at starting point: > 5 Ncm □ at end: < 10 Ncm

## **Environmental data**

Operating temperature range:

Storage temperature

range:

-55° C to +135° C esistancy: 100 m/s² at 10 to 500 Hz

-40° C to +125° C

■ Vibration resistancy:

### **Electrical data**

Resolution of resistant element: infinite
 Useful electrical angle: 95 ± 3°

Life expectancy PMR 411: ≥ 50 x 10<sup>6</sup> cycles
 Permissible load: 0.5 W up to +40° C
 0.05 W up to +125° C

■ Total resistance:  $4 \text{ k}\Omega \pm 20 \text{ %}$ ■ Linearity: 1.5 %

■ Recommended current

through wiper:

Permissible current

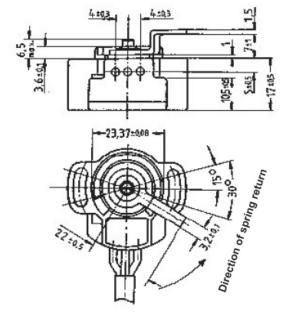
through wiper: ≤ 0.5 µA continuously

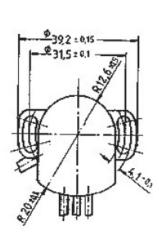
■ Protective resistance

at wiper: 1.7 k $\Omega$  ± 20 % Length of leads: 300 mm ± 20 mm

■ Section of leads: 0.93 mm²
■ Mass: 0.035 kg

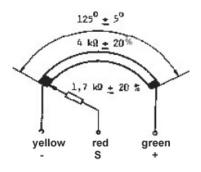
## **Dimensions**





## **Electrical connection**

≤ 100 µA



Wiper at starting point by spring return