

WIRE WINDING

FSG-DESIGN

PW70

Wire wound precision Potentiometer

- · Low coast flat type potentiometer in a plastic housing
- · Short-circuit sections, additional taps, and special windings available upon request
- · Resistance value and active angle can be customized as desired





TECHNICAL DATA

Housing material	thermoset
Housing diameter	70 mm
Model	FSG-Design
IP code	IP30
Shaft diameter	6 mm
Adjustment speed	max. 360 U/min
Torque	0.5 Ncm
Wiper without limit stops	no
Multiple execution	sixfold
Bearing	needle bearing
Connection	screw connection / solder-type terminals
Fastening	2x M4 at a distance of 50 mm
Resistance element	ring
Active angle	max. 350°

Resistance values	to 50 kΩ
Resistance tolerance	2%
Linearity tolerance	±0.15 %
Resolution	max. 3621 turns
Capacity	6 W
Temperature range	-30 °C to +80 °C
Temperature coefficient	0.0017 % / °C
Lifetime The lifetime depends on the application	typical 10–50 Mio. Cycles and environmental conditions.
Vibration*	5-200 Hz, 10 g
Shock*	50 g, 6 ms

Specific features

Additional switches, maximum of 6, available

*Depending on customer specifications.

Article master number

1700Z04

Optionally available

PROTECTIVE HOUSING

To protect against mechanical damage and extreme environmental conditions, as well as for necessary adaptation gears and additional switches, suitable housings are available in various designs.



For more information on protective housings, click here:www.fsg-sensors.de



Typical

Ship

APPLICATION AREAS

Rails

Automation

Logistics

Medicine

Industry

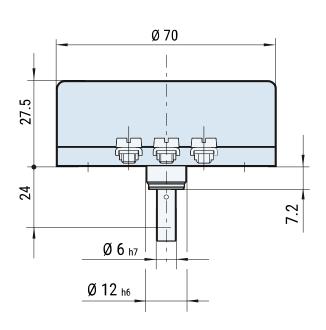


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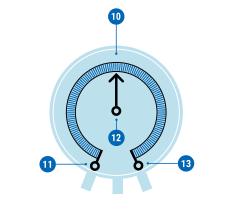
FSG-DESIGN



DIMENSIONAL DRAWINGS



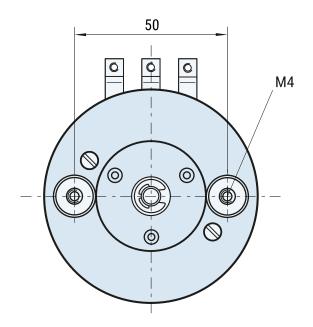
CONNECTION



Standard

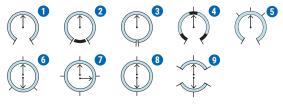
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

Optional 10 Additional tap



CIRCUIT VARIATIONS

Wire-wound resistive elements as **ring winding** on an anodized aluminum ring body can be executed in various circuit configurations, angle ranges, and resistance values.



- 1 Wiper limited by stops
- 2 Wiper continues rotation over 360° with dummy winding
- 3 Wiper continues rotation over 360° without reactive winding (sawtooth curve)
- 4 Free arrangement of shorted sections
- **5** Free arrangement of taps
- 6/7/8 Special windings with linear or sin/cos characteristic curves
 - 9 Two electrically isolated windings on a winding body, angle $\leq 175^{\circ}$

CONTACT

If you have any questions about this or any other FSG product, please do not hesitate to contact us.

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