

WIRE WINDING

SYNCHRO DESIGN

# PW620-18d

## Wire wound precision Potentiometer

- High-resolution resistive element with ring winding
- Short-circuit distances, additional taps, and special windings available upon request
- Resistance value and active angle can be customized as desired



## TECHNICAL DATA

Housing material	aluminum, anodized	Resistance values	to 20 kΩ
Housing diameter	50.8 mm	Resistance tolerance	2%
IP code of housing up to	IP30	Linearity tolerance	±0.2 %
Shaft diameter	6 mm	Resolution in turns	3434
Adjustment speed	max. 360 U/min	Capacity	1 W
Torque	0.05 Ncm	Temperature range	-30 °C to +80 °C
Wiper without limit stops	yes	Temperature coefficient	0.00 17 % / °C
Multiple execution	sixfold	Lifetime	typical 10–50 Mio. Cycles**
Bearing	ball-bearing	<small>** The lifetime depends on the application and environmental conditions.</small>	
Connection	faston plug / solder-type terminals	Vibration*	5–200 Hz, 10 g
Fastening	clamp fixing	Shock*	50 g, 6 ms
Resistance element	ring		
Active angle	max. 360°		

### Specific features

2 additional switches, fixed, auf Anfrage verfügbar

\*Depending on customer specifications.

**Article master number** 1570Z02

Typical

## APPLICATION AREAS



Ship



Rails



Automation



Logistics



Medicine



Industry

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](http://www.fsg-sensors.de)**

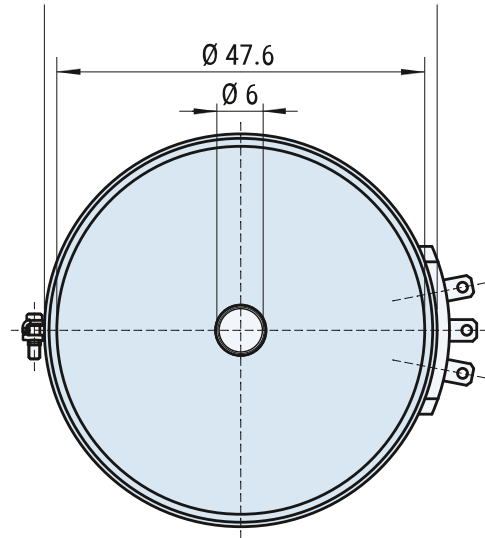
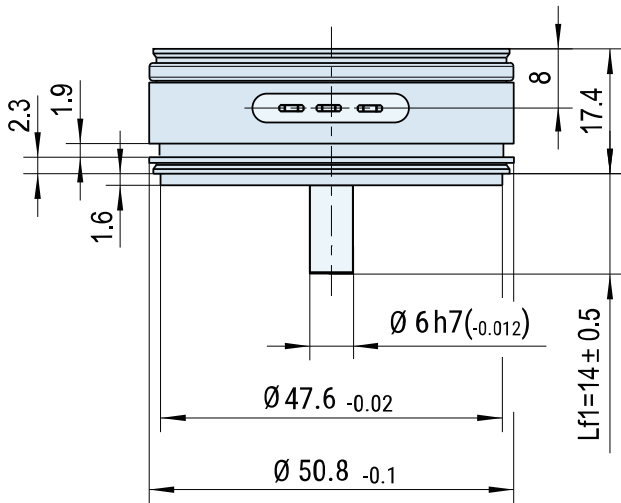


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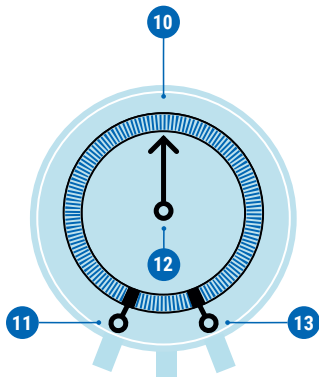
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## DIMENSIONAL DRAWINGS



## CONNECTION



**Standard**

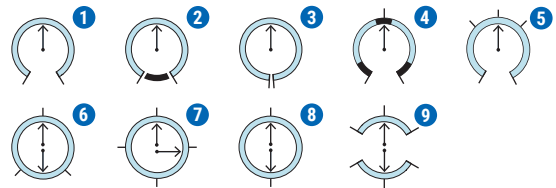
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

**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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