



SYNCHRO DESIGN

PW613-18

Wire wound precision Potentiometer

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









TECHNICAL DATA

Housing material	aluminum, anodized
Housing diameter	36.5 mm
Model	synchro size 13
IP code	IP30
Shaft diameter	6 mm
Adjustment speed	max. 360 U/min
Torque	0.05 Ncm
Wiper without limit stops	no
Multiple execution	sixfold
Bearing	ball-bearing
Connection	faston plug / solder-type terminals
Fastening	clamp fixing
Resistance element	ring
Active angle	max. 345°

Resistance values	to 20 kΩ
Resistance tolerance	2%
Linearity tolerance	±0.2 %
Resolution	1851 turns
Capacity	1 W
Temperature range	-30 °C to +80 °C
Temperature coefficient	0.0017 % / °C
Lifetime typical 10–50 Mio. Cycles The lifetime depends on the application and environmental conditions.	
Vibration*	5-200 Hz, 10 g
Shock*	50 g, 6 ms

*Depending on customer specifications.

Article master number

1560Z10

Typical

APPLICATION AREAS













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



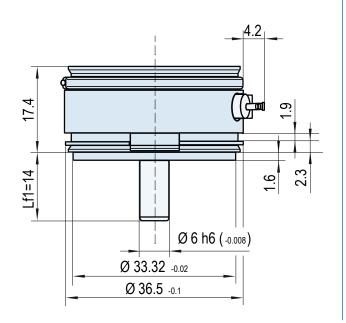


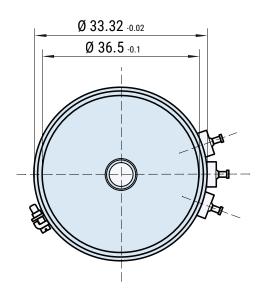
WIRE WINDING

SYNCHRO DESIGN

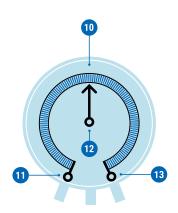
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DIMENSIONAL DRAWINGS





CONNECTION



Standard

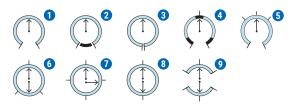
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

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 ≤175°

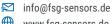
CONTACT

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



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