

WIRE WINDING

SYNCHRO DESIGN

PW609dy

Wire wound miniature Potentiometer

- High-resolution resistive element with caterpillar winding
- Short-circuit distances and additional taps available upon request
- Suitable for measured value acquisition in small installation spaces



TECHNICAL DATA

Housing material	aluminum, anodized
Housing diameter	22.2 mm
Model	synchro size 9
IP code	IP30
Shaft diameter	3 / 6 mm
Adjustment speed	max. 360 U/min
Torque	0.03 Ncm
Wiper without limit stops	for adjustment purposes only
Multiple execution	simply
Bearing	plain bearing
Connection	faston plug /solder-type terminals
Fastening	central fixing
Resistance element	caterpillar
Active angle	max. 340°

Resistance values	to 10 kΩ
Resistance tolerance	5%
Linearity tolerance	±0.5 %
Resolution	1033 turns
Capacity	0.5 W
Temperature range	-30 °C to +80 °C
Temperature coefficient	0.0017 % / °C
Lifetime	typical 10–50 Mio. Cycles <i>The lifetime depends on the application and environmental conditions.</i>
Vibration*	5–200 Hz, 10 g
Shock*	50 g, 6 ms

*Depending on customer specifications.

Article master number 1114Z80

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

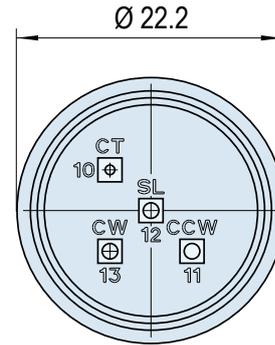
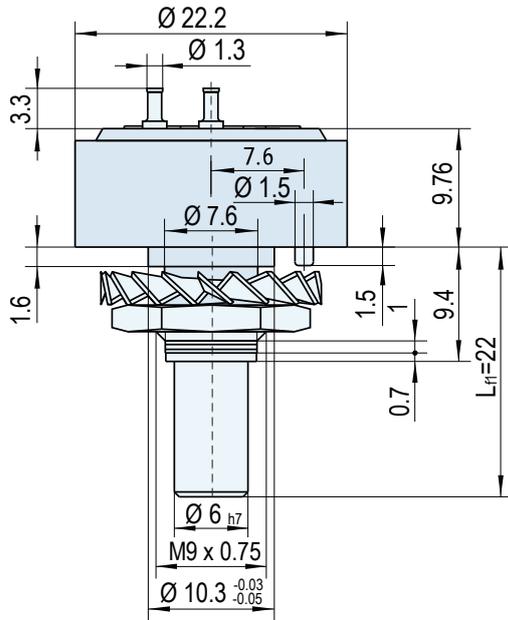


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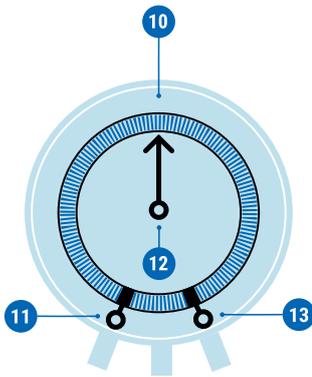
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DIMENSIONAL DRAWINGS



CONNECTION



Standard

- 11 Resistance start
- 12 Wiper
- 13 Resistance end

Optional

- 10 Additional tap

CIRCUIT VARIATIONS

Wire-wound resistive elements with shape on a painted copper wire body in single-turn or multi-turn potentiometers.



- 1 Wiper limited by stops
- 2 Wiper continuous rotation without limit stops (over 360°) only for short-up without voltage
- 3 Free arrangement of short-circuit sections
- 4 Free arrangement of taps

CONTACT

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



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