

CONDUCTIVE PLASTIC SYNCHRO DESIGN

PK309-15d

Miniature Potentiometer with conductive plastic resistive element

- High-resolution resistance element of conductive plastic
- Short-circuit distances and additional taps available upon request
- Available with sine/cosine resistance element



TECHNICAL DATA

Housing material	aluminum, anodized	Resistance values	to 10 kΩ
Housing diameter	22.2 mm	Resistance tolerance	± 20 %
Model	synchro size 9	Linearity tolerance	±2 %
IP code	IP30	Resolution	almost infinite
Shaft diameter	3 mm	Capacity	0.5 W
Adjustment speed	max. 1000 U/min.	Temperature range	-30 °C to +80 °C
Torque	0.03 Ncm	Temperature coefficient	0.02 % / °C
Wiper without limit stops	yes	Lifetime	typical 10–50 Mio. Cycles <i>The lifetime depends on the application and environmental conditions.</i>
Multiple execution	triple	Vibration*	5–200 Hz, 10 g
Bearing	ball-bearing	Shock*	50 g, 6 ms
Connection	faston plug / solder-type terminals		
Fastening	clamp fixing		
Resistance element	conductive plastic		
Active angle	max. 345°		

**Depending on customer specifications.*

Article master number 1105Z02

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.



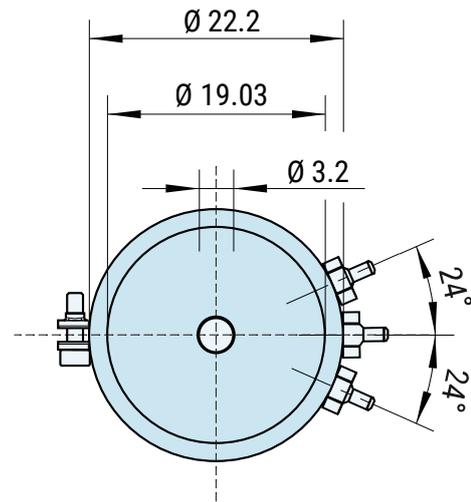
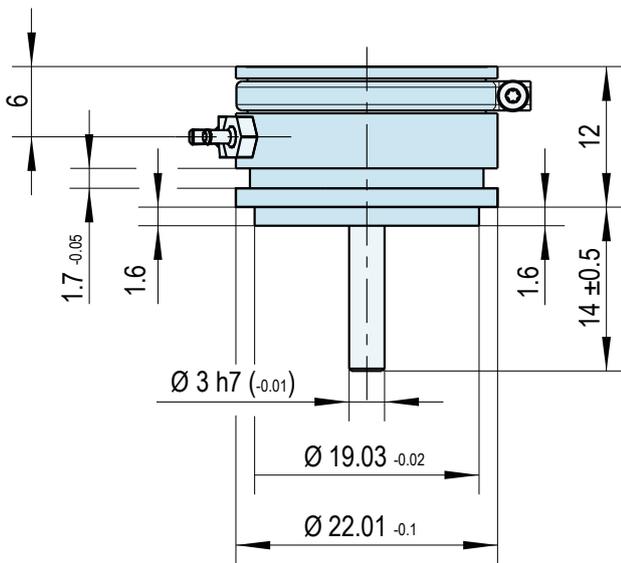
For more information on protective housings, click here: www.fsg-sensors.de



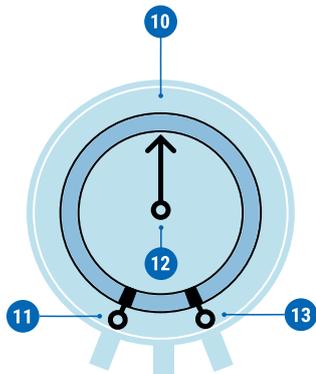
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DIMENSIONAL DRAWINGS



CONNECTION



Standard

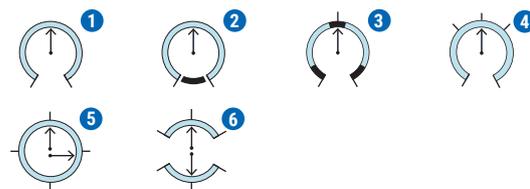
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

Optional

- 10 Additional tap

CIRCUIT VARIATIONS

Wire-wound resistive elements **conductive plastic**, printed on glass fiber reinforced substrate. Maximum active angle is 355° . Smaller angles, taps, and shorted sections are available on request.



- 1 Wiper limited by stops
- 2 Wiper continues rotation over 360°
- 3 Free arrangement of shorted sections
- 4 Free arrangement of taps
- 5 Sin/cos characteristic curve
- 6 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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