

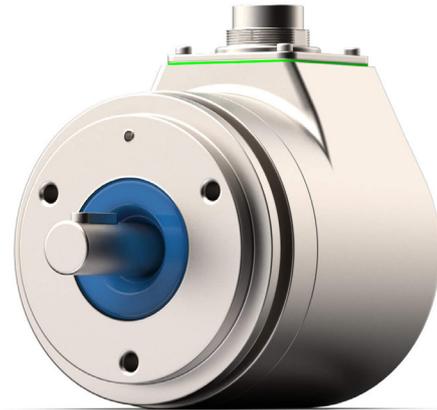
WIRE WINDING

SYNCHRO DESIGN

PW1023d

Robust precision Potentiometer with wire winding

- Robust design in protection IP65
- High-resolution resistance element with ring winding
- Optional with plug or cable connection



TECHNICAL DATA

Housing material	aluminum, anodized	Resistance values	to 20 kΩ
Housing diameter	60 mm	Resistance tolerance	2%
Model	synchro size 23	Linearity tolerance	±0.2 %
IP code	IP65	Resolution	max. 2321 turns
Shaft diameter	6 / 10 mm	Capacity	2.5 W
Adjustment speed	max. 360 U/min	Temperature range	-30 °C to +80 °C
Torque	2.5 Ncm	Temperature coefficient	0.0017 % / °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	twice	Vibration*	5–200 Hz, 10 g
Bearing	2x ball-bearing	Shock*	50 g, 6 ms
Connection	plug / cable		
Fastening	clamp fixing with synchro flange and 3x M4 to TK 42 mm		
Resistance element	ring		
Active angle	max. 360°		

Specific features
Stainless steel housing on request

**Depending on customer specifications.*

Article master number 5720Z53

Typical APPLICATION AREAS



Ship



Rails



Automation



Logistics



Medicine



Industry

Optionally available PROTECTIVE HOUSING

Due to its extremely robust design, there is no need for a protective housing for the PW1023 potentiometer series.



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

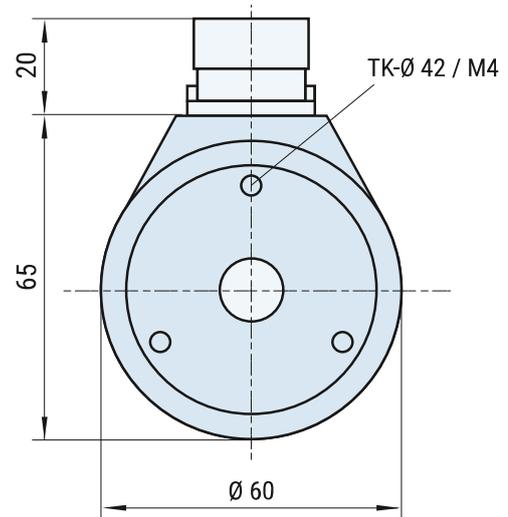
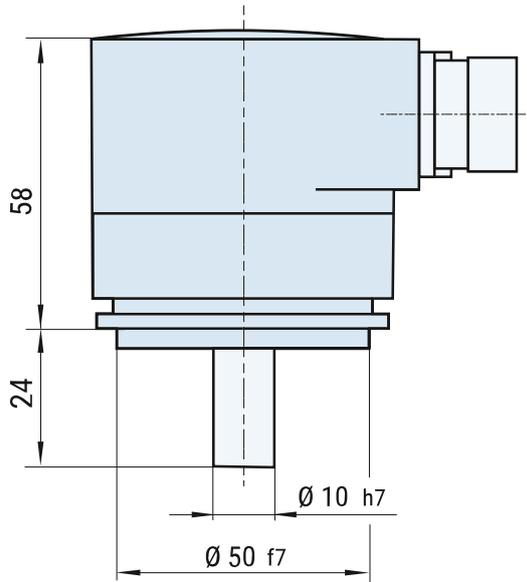


WIRE WINDING

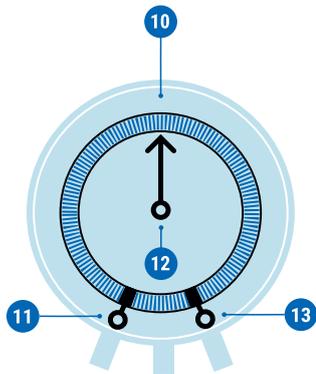
SYNCHRO DESIGN

PW1023d

DIMENSIONAL DRAWINGS



CONNECTION



Standard

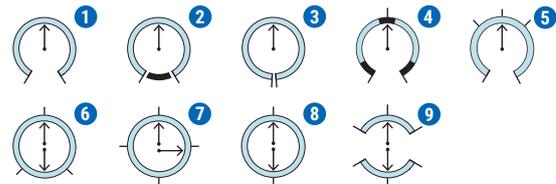
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

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.

BERLIN (HQ)
 Fernsteuergeräte Kurt Oelsch GmbH
 Jahnstraße 68 + 70
 12347 Berlin

✉ info@fsg-sensors.de
 🌐 www.fsg-sensors.de
 📞 +49 30 6291-1
 📠 +49 30 6291-277

© Fernsteuergeräte Kurt Oelsch GmbH
 No guarantee for the correctness, completeness of the contents. The product illustration may differ from original.