

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

| aluminum, anodized |
|---|
| 60 mm |
| IP65 |
| 6 / 10 mm |
| max. 360 U/min |
| 2.5 Ncm |
| yes |
| twice |
| 2x ball-bearing |
| plug / cable |
| clamp fixing with synchro flange and 3x M4 to TK 42 mm |
| ring |
| max. 360° |
| |

| Resistance values | to 20 kΩ |
|---|---|
| Resistance tolerance | 2% |
| Linearity tolerance | ±0.2 % |
| Resolution in turns | max. 2321 |
| Capacity | 2.5 W |
| Temperature range | -30 °C to +80 °C |
| Temperature coefficient | 0.0017 % / °C |
| Lifetime ** The lifetime depends on the applicati | typical 10–50 Mio. Cycles** ion and environmental conditions. |
| Vibration* | 5-200 Hz, 10 g |
| Shock* | 50 g, 6 ms |

Specific features

Stainless steel housing on request

 ${\bf *Depending\ on\ customer\ specifications}.$

Article master number 5720Z53

Typical

APPLICATION AREAS













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



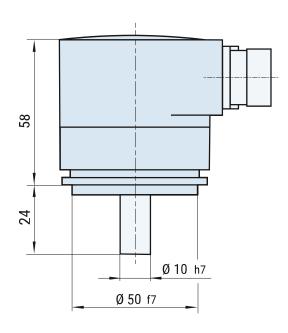


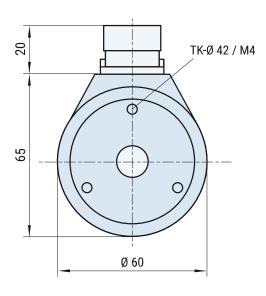
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SYNCHRO DESIGN

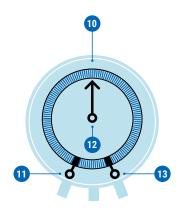
PW1023d

DIMENSIONAL DRAWINGS





CONNECTION



Standard

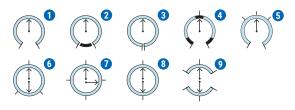
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

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°

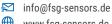
CONTACT

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



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