

## CONDUCTIVE PLASTIC PK1023d

SYNCHRO DESIGN

#### Robust precision Potentiometer with conductive plastic resistance element

- Robust design with IP65 protection rating
- Short-circuit distances and additional taps available
  upon request
- · Available with optional plug or cable connection





#### **TECHNICAL DATA**

Housing material	aluminum, anodized
Housing diameter	60 mm
Model	synchro size 23
IP code	IP65
Shaft diameter	6 mm / 10 mm
Adjustment speed	max. 1000 U/min.
Torque	2.5 Ncm
Wiper without limit stops	yes
Multiple execution	twice
Bearing	2x ball-bearing
Connection	plug / cable
Fastening	clamp fixing and 3x M4 of TK 42 mm
Resistance element	conductive plastic
Active angle	max. 355°

Resistance values	to 10 kΩ
Resistance tolerance	± 10 %
Linearity tolerance	±1.5 % / ±0.1 % (on request)
Resolution	almost infinite
Capacity	2 W
Temperature range	-30 °C to +80 °C
Temperature coefficient	0.02 % / °C
Lifetime The lifetime depends on the application	typical 10-50 Mio. Cycles and environmental conditions.
Vibration*	5-200 Hz, 10 g
Shock*	50 g, 6 ms

\*Depending on customer specifications.

Article master number

ber 5710Z53

Optionally available **PROTECTIVE HOUSING** 

Due to its extremely robust design, there is no need for a protective housing for the PK1023 potentiometer series.



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





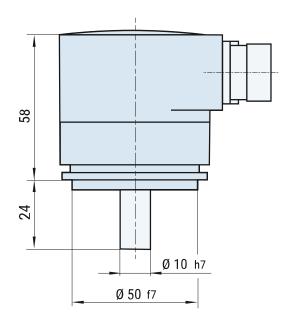


**CONDUCTIVE PLASTIC** 

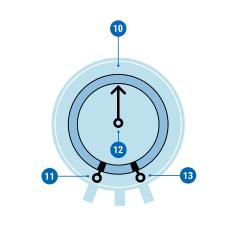
SYNCHRO DESIGN

# PK1023d

#### **DIMENSIONAL DRAWINGS**



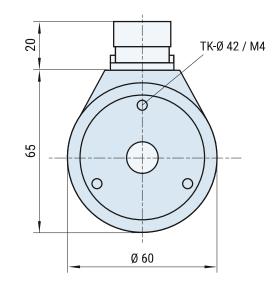
#### CONNECTION



Standard

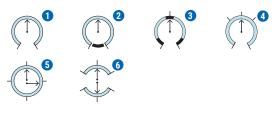
- 11 Resistance start
- 12 Wiper
- 13 Resistance end

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 ≤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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