

MP22 - SERIES



POTENTIOMETER, CONTACTLESS Ø 22 MM

Potentiometer with programmable active angle

- High ingress protection class IP68
- Contactless measuring principle
- No wearing parts and long useable life
- Small dimensions & flat design

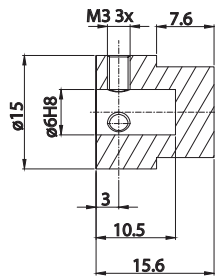
Standard: 5 Vdc Power Supply
Analog voltage output 0..5 Vdc or 0.5 - 4.5 Vdc

Options: Programmable active angle (5° to 360°)
Programmable direction

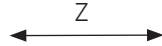
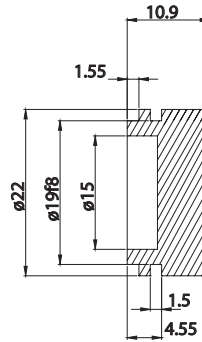


*Flexible and durable
encoder for demanding
applications*

MAGNET CARRIER UNIT (ROTATING)



PICK-UP UNIT (STATIONARY)



MOUNTING TOLERANCES

dX ±1mm
dY ±1mm
dZ +5mm - 2mm

MOUNTING CLEARANCE BETWEEN MAGNET & PICK-UP

Z = 2 mm

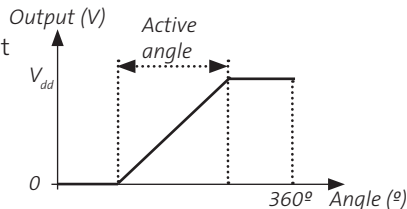
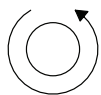
ELECTRICAL SPECIFICATION

Power supply $V_{dd} = 5 \text{ Vdc} \pm 10\%$
 Current consumption Max 20 mA
 Output circuit Analogue voltage
 Output resistive load $R_{min} = 100 \text{ k}\Omega$ (0 to V_{dd} output)
 $R_{min} = 10 \text{ k}\Omega$ (10% to 90% V_{dd} output)
 Output capacitance load $C_{max} = 1 \text{ nF}$

Short circuit protected Yes

OUTPUT SIGNAL

CCW rotation seen from PICK-UP unit front



OUTPUT CIRCUIT & PERFORMANCE

Resolution 12 bit
 Direction Increasing voltage while CCW rotation
 Active angle 5° to 360° (set upon manufacturing)

Output voltage performance

MP23A 0 .. V_{dd} over active angle
 MP23B 10% .. 90% of V_{dd} over active angle

MECHANICAL SPECIFICATION

Housing material Aluminum, electrically conductive for increased interference protection
 Encapsulation class IP68 (IEC 60529)
 Max rotational speed 3000 rpm

Operating temperature -40° to +70°C
 Storage temperature -40° to +70°C

Vibration 50g 20-2000 Hz (IEC 60068-2-6)
 Chock 200g at 11 ms (IEC 60068-2-27)

Weight Approx. 30 g (without cable)

CONNECTION TYPE

1 Axial cable, 1 m
 1X Axial cable, free cable length

FUNCTION

Model	MP22A (0.. V_{dd})	MP22B (10%..90% V_{dd})
Output	Green	Green
+V	Brown	Brown
0V	White	White

ORDERING CODE

	MP22A	6	360	1	X
Model	_____	_____	_____	_____	_____
Shaft ϕ 6 mm	_____	_____	_____	_____	_____
Active angle	_____	_____	_____	_____	_____
Connection	_____	_____	_____	_____	_____
X= meter cable	_____	_____	_____	_____	_____