

## 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 or 7-35 Vdc Power Supply  
Analog voltage output 0..5 Vdc or 0.5 - 4.5 Vdc

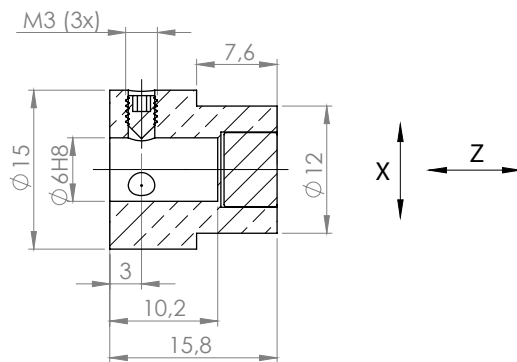
Options: Programmable active angle (20° to 360°)  
Programmable direction



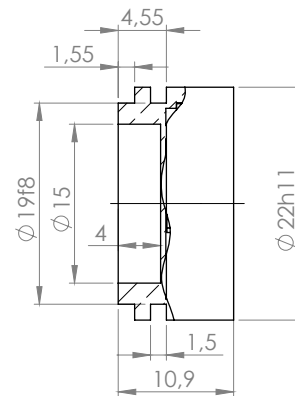
*Flexible and durable  
encoder for demanding  
applications*

## MAGNETIC CARRIER UNIT (ROTATING)

MAGNET ACCESSORY PART NO. 106001



## PICK-UP UNIT (STATIONARY)



### MOUNTING TOLERANCES

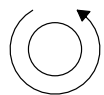
Z = 1,5 ± 1 mm  
X = 0 ± 0,25 mm

### ELECTRICAL SPECIFICATION

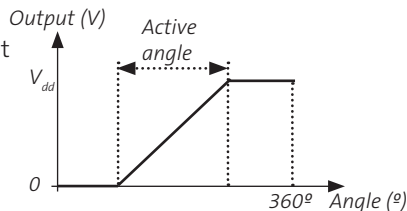
Power supply  $V_{dd} = 5 \text{ Vdc} \pm 10\%$  or 7-35Vdc  
 Current consumption Max 20 mA  
 Output circuit Analogue voltage  
 Output resistive load  $R_{min} = 100 \text{ k}\Omega$  (0 to  $V_{dd}$  output)  
 $R_{min} = 10 \text{ k}\Omega$  (10% to 90%  $V_{dd}$  output)  
 Output capacitance load  $C_{max} = 1 \text{ nF}$   
 Short circuit protected Yes

### OUTPUT SIGNAL & DIRECTION

Rotation seen from PICK-UP unit front



R = CW OR L = CCW



### OUTPUT CIRCUIT & PERFORMANCE

Resolution 12 bit  
 Direction Increasing voltage  
 Active angle 20° to 360° (set upon manufacturing)

### POWER SUPPLY & OUTPUT VOLTAGE PERFORMANCE

MP22A  $V_{dd} = 5 \text{ Vdc}, 0 \dots 5 \text{ V over active angle}$   
 MP22B  $V_{dd} = 5 \text{ Vdc}, 0.5 \dots 4.5 \text{ V over active angle}$   
 MP22C  $V_{dd} = 7-35 \text{ Vdc}, 0 \dots 5 \text{ V over active angle}$   
 MP22D  $V_{dd} = 7-35 \text{ Vdc}, 0.5 \dots 4.5 \text{ V over active angle}$

### 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 **MP22**  
 Output CCW Green  
 Output CW Yellow  
 +V Brown  
 0V White

### ORDERING CODE

Model MP22X - 0X - L360 - 1X  
 Direction (R/L)  
 Active angle  
 Connection  
 X= meter cable

### ACCESSORIES

Magnet carrier unit Part no. 106001