

SPRING RETURN BIDIRECTIONAL ROTARY POTENTIOMETER

SRP 36



GENERAL FEATURES

- Spring-return (self-return)
- Bidirectional Electrical Angle: $\pm 60^\circ$ (Total 120°)
- Bidirectional Mechanical Angle: $\pm 62,5^\circ$ (Total 125°), limited (There is a 5° dead zone in the center)
- 6 mm shaft (optional others)
- 36 mm body diameter
- Potentiometric output
- $\pm 1\%$ linearity
- 2 million cycles lifetime
- IP54 protection

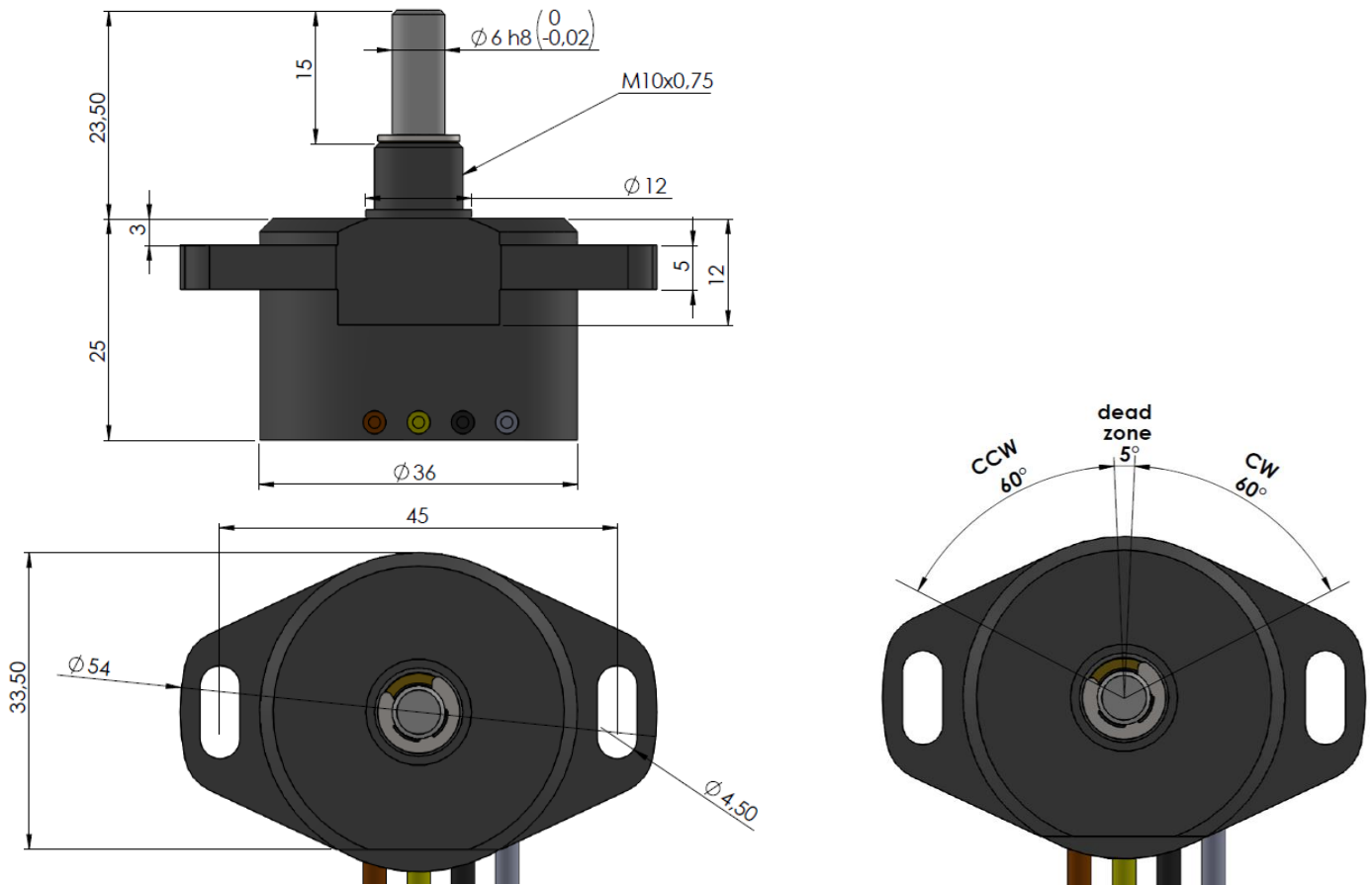
APPLICATION FIELDS

- Textile machinery
- Automatic door control systems
- Automotive
- All kinds of control and measurement applications

TECHNICAL FEATURES

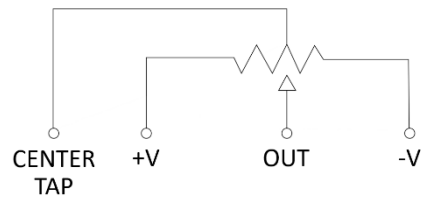
Electrical Angle	120° ($-60^\circ \dots +60^\circ$) (see mechanical dimensions)
Mechanical Angle	125° ($-62,5^\circ \dots +62,5^\circ$), limited (There is a 5° dead zone in the center) (see mechanical dimensions)
Independent Linearity	$\pm 1\%$
Repeatability	$0,1^\circ$ max.
Output Type	Resistive
Supply Voltage	42V max.
Resistance Values	2K, 5K, 10K
Resistance Tolerance	$\pm 20\%$
Resistance Element	Conductive Plastic
Insulating Resistance	DC500V $1G\Omega$ min.
Resolution	Infinite
Recommended Wiper Current	$100 \mu A$ max.
Electrical Connection	$4 \times 0,5 \text{ mm}^2$ NYAF cable (standard 150mm, optional others)
Rotation Torque	$0,5 \sim 1 \text{ Nm}$
Life	2 million cycles
Operating Temperature	$-40^\circ C \dots +100^\circ C$
Storage Temperature	$-40^\circ C \dots +100^\circ C$
Body Material	Delrin (POM)
Shaft Material	AISI303
Protection Class	IP54

MECHANICAL DIMENSIONS (mm)

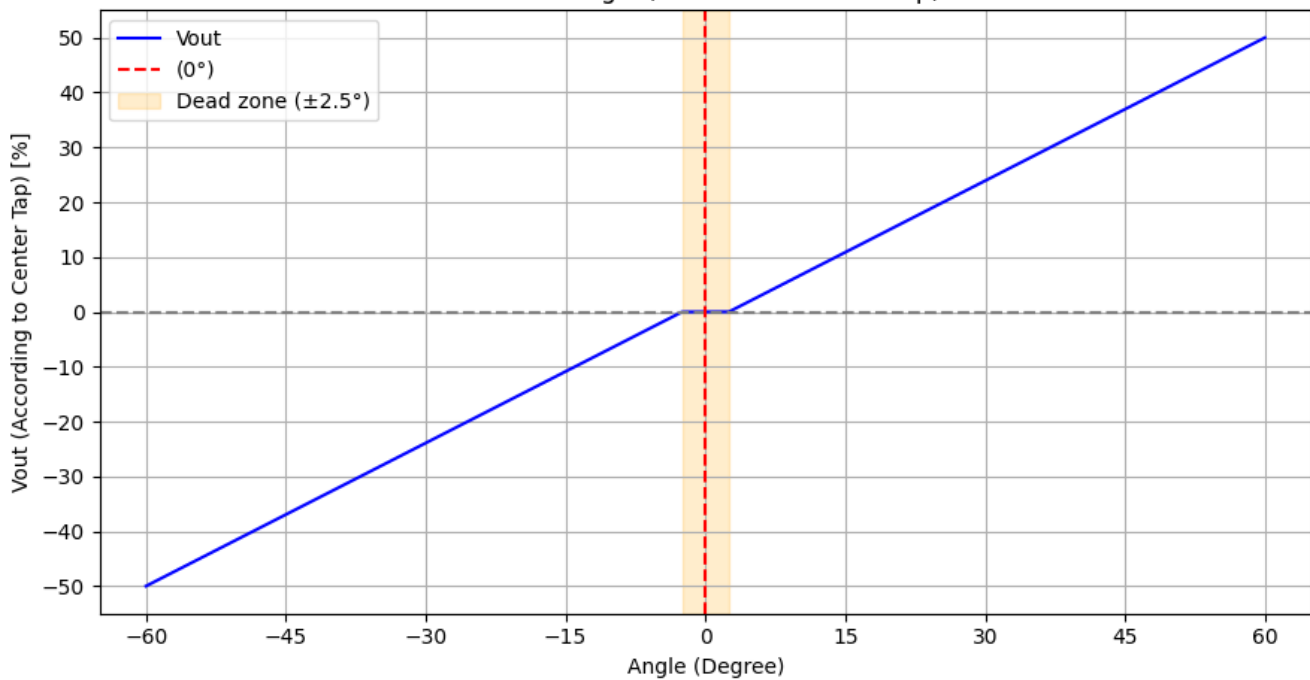


ELECTRICAL CONNECTION & OUTPUT CHARACTERISTIC

SIGNAL	CABLE COLOR
+V	Brown
Output Signal	Yellow
-V	Black
Center Tap	Grey



Vout vs Angle (Reference: Center Tap)



ORDER CODE

Model				Electrical Angle				Resistance Value				Shaft Diameter	
				120 : 120° (-60°...+60°)				2K: 2K				6 : 6mm (standard)	
				*Optional others				5K: 5K				*Optional others	
								10K: 10K					
SRP	-	XXX	-	XXX	-	XXX	-	XX	-	XXX	-	XXX	
Body Diameter				Mechanical Angle				Cable Length					
036: 36mm				125 : 125° (-62,5°...+62,5°)				0.15M: 150mm (standard)					
				*Optional others				*Optional others					