

SPRING RETURN ROTARY POTENTIOMETER

“M6x1 Shaft, 30 mm Body Diameter”

SRP 30



GENERAL FEATURES

- Spring-return (self-return)
- 60°, 110° or 120° electrical angle (optional others)
- 120° or 150° limited mechanical angle (optional others)
- M6x1 threaded shaft (optional others)
- 30 mm body diameter
- Potentiometric output
- ±%1 linearity
- 2 million cycles lifetime
- IP67 protection

APPLICATION FIELDS

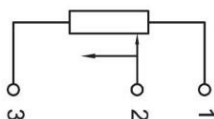
- Textile machinery
- Automatic door control systems
- Automotive
- All kinds of control and measurement applications

TECHNICAL FEATURES

Electrical Angle	60°	110°	120°
Mechanical Angle	120° limited	120° limited	150° limited
Independent Linearity	±%1		
Repeatability	0.1° max.		
Output Type	Resistive		
Supply Voltage	42V max.		
Resistance Values	2K, 5K, 10K		
Resistance Tolerance	±%20		
Resistance Element	Conductive Plastic		
Insulating Resistance	DC500V 1GΩ min.		
Resolution	Infinite		
Recommended Wiper Current	100 μA max.		
Electrical Connection	3x0,5 mm ² NYAF cable (standard 150mm, optional others)		
Rotation Torque	$4.9 \times 10^{-2} \pm 1.96 \times 10^{-2} \sim 8.33 \times 10^{-2} \pm 1.96 \times 10^{-2}$ Nm (0.5±0.2 ~ 0.85±0.2kgf-cm)		
Life	2 million cycles		
Operating Temperature	-40°C ... +100°C		
Storage Temperature	-40°C ... +100°C		
Body Material	Delrin (POM)		
Shaft Material	AISI303		
Protection Class	IP67		

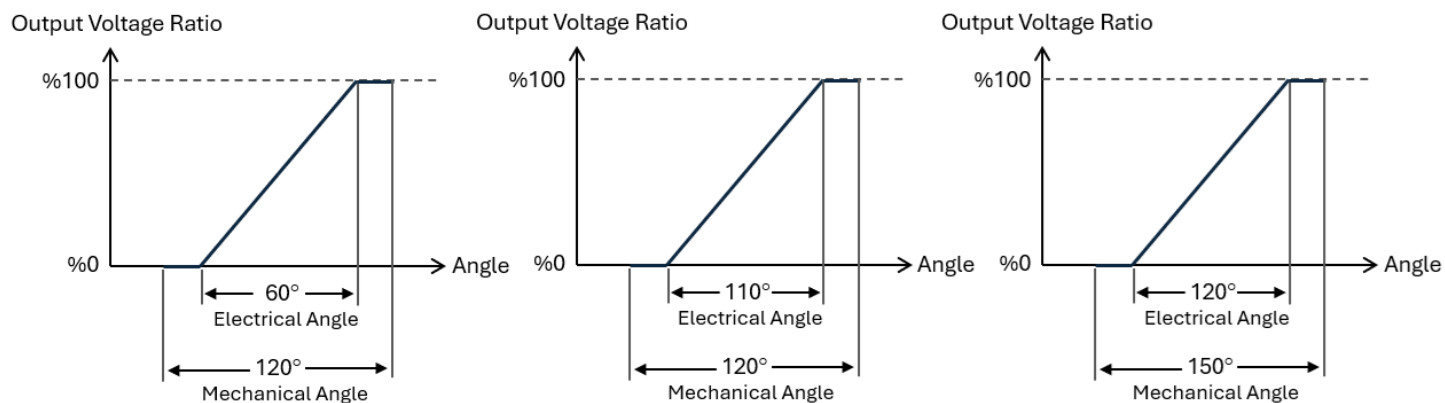
ELECTRICAL CONNECTIONS

SIGNAL	CABLE COLOR
+V	Brown (1)
Output Signal	Yellow (2)
-V	Black (3)

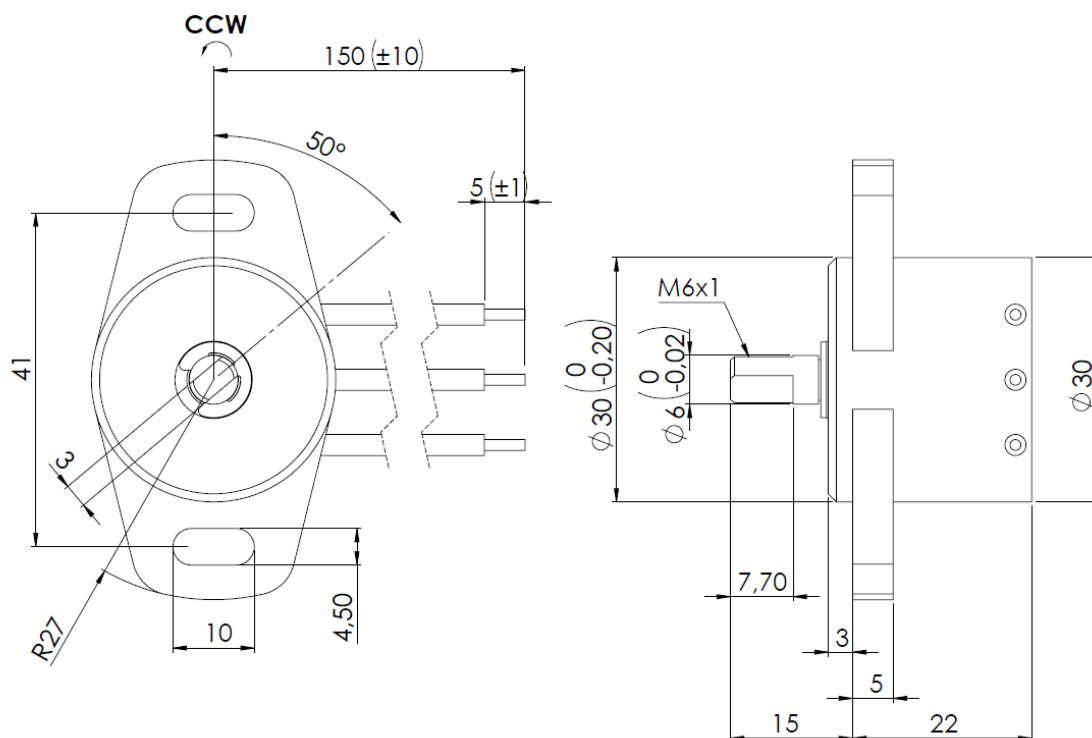


Potentiometer connection
(voltage divider)

OUTPUT CHARACTERISTIC



MECHANICAL DIMENSIONS (in mm)



ORDER CODE

Model		Electrical Angle (*)			Resistance Value			Shaft Diameter				
		60 : 60°			2K: 2K			M6x1 : M6x1 threaded				
		110 : 110°			5K: 5K			(standard)				
		120 : 120°			10K: 10K			*Optional others				
SRP	-	XXX	-	XXX	-	XXX	-	XX	-	XXX	-	XXX
		Body Diameter			Mechanical Angle (*)			Cable Length				
		030: 30mm			120 : 120°			0.15M: 150mm (standard)				
					150 : 150°			*Optional others				

(*) Electrical and Mechanical angle should be selected as standard according to the tables below. Ask for other options.

Electrical Angle	60°
Mechanical Angle	120°

Electrical Angle	110°
Mechanical Angle	120°

Electrical Angle	120°
Mechanical Angle	150°