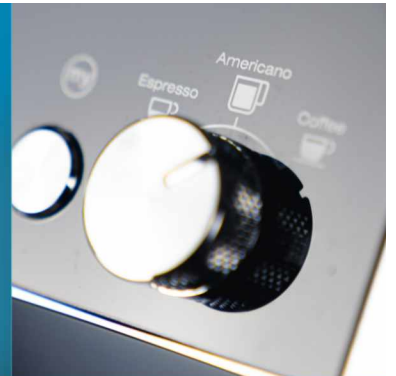
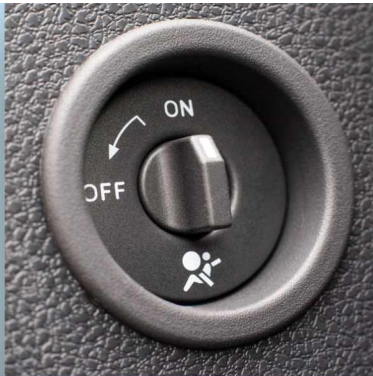


Product Guide

Potentiometers, Encoders and Panel Controls



Product Guide

Potentiometers, Encoders and Panel Controls



Adaptable to your requirements
Wide range of shafts and rotors, different packaging and detent options, switch and low torque versions.



Dust proof housing
IP54 protection according to IEC 60529.



Detents for haptic feedback
Mechanical detents add a click sensation to the rotation and allow for more precise position selection.



Flame retardant plastic (UL 94V-0)
Housing, rotor and shaft of cermet potentiometers are made of non-flammable plastic. Optional for carbon potentiometers.

SMD Potentiometers

	Model	Size	Electrical Angle	Technology	Power Rating (W)	Resistance Range	Taper	Standard Tolerance	Temperature Range	Rotational Life (max)	Detents
Trimmers	N-6R	6 mm	245° ±25°	Carbon	0.1 (50°C)	250Ω to 500 kΩ	Linear	±30%	-25°C to +70°C (up to +85°C)	10.000	n/a
	PS-6	6 mm	200° ±20°	Carbon	0.1 (50°C)	1 kΩ to 1 MΩ	Linear	±30%	-40°C to +85°C	10.000	Up to 10
	PS-10	10 mm	220° ± 20°	Carbon	0.15 (50°C)	1 kΩ to 1 MΩ	Linear	±30%	-40°C to +85°C	10.000	Up to 16
	PSC-10	10 mm	220° ± 20°	Cermet	0.33 (70°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-40°C to +90°C	10.000	Up to 16
Controls	PS-15	15 mm	240° ± 20°	Carbon	0.25 (50°C)	1 kΩ to 1 MΩ	Linear	±30%	-40°C to +85°C	100.000	Up to 38
	PSC-15	15 mm	240° ± 20°	Cermet	0.5 (70°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-40°C to +90°C	10.000	Up to 38
	STS-15	15 mm	333°	Carbon	0.25 (50°C)	1 kΩ to 1 MΩ	Linear	±30%	-40°C to +85°C	100.000	Up to 51
360° Endless Rotation											


Through-Hole Potentiometers

	Model	Size	Electrical Angle	Technology	Power Rating (W)	Resistance Range	Taper	Standard Tolerance	Temperature Range	Rotational Life (max)	Detents
Trimmers	N-6	6 mm	245° ±25°	Carbon	0.1 (50°C)	100Ω to 1 MΩ	Linear	±30%	-25°C to +70°C (up to +85°C)	100	n/a
	PT-6	6 mm	200° ±20°	Carbon	0.1 (50°C)	220Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	10.000	Up to 10
	PT-10	10 mm	220° ± 20°	Carbon	0.15 (50°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	100.000	Up to 16
	PTC-10	10 mm	220° ± 20°	Cermet	0.33 (70°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-40°C to +90°C (up to +120°C)	10.000	Up to 16
Controls	PT-15	15 mm	240° ± 20°	Carbon	0.25 (50°C)	100 Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C	100.000	Up to 38
	PTC-15	15 mm	240° ± 20°	Cermet	0.5 (70°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-40°C to +90°C (up to +120°C)	10.000	Up to 38
	ST-15	15 mm	333°	Carbon	0.25 (50°C)	1 kΩ to 100 kΩ	Linear	±30%	-25°C to +70°C	200.000	Up to 51
360° Endless Rotation											


Product Guide

Potentiometers, Encoders and Panel Controls





Low Profile Position Sensor / Potentiometer

Model	Mounting	Electrical Angle	Technology	Power Rating (W)	Resistance Range	Taper	Relative Linearity	Standard Tolerance	Temperature Range	Rotational Life (max)
 N-15	THT / SMD	340° ±10°	Carbon	0.15 (50°C)	5 kΩ to 100 kΩ	Linear / Non-linear	±2%	±30%	-40°C to +120°C	2,000,000
360° Endless Rotation, 4.4 mm profile height										



Linear Potentiometer

Model	Mounting	Mechanical Travel	Technology	Power Rating (W)	Resistance Range	Taper	Relative Linearity	Standard Tolerance	Temperature Range	Mechanical Life
 NPL	THT	Up to 12 mm	Carbon	0.2 (50°C)	1 kΩ to 100 kΩ	Linear	±2%	±30%	-40°C to +105°C	50,000 cycles



Panel-Mount Potentiometers

Model	Mounting	Size	Electrical Angle	Power Rating (W)	Resistance Range	Taper	Standard Tolerance	Temperature Range	Optional features
 T-16	Solder lugs / THT	16 mm	280° ±20°	0.2 (50°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	Detents, switch, stereo matching
 PC-16	Solder lugs / THT	16 mm	280° ±20°	0.2 (50°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	Switch, stereo matching, up to 4 gangs
 T-18	Solder lugs / THT	18 mm	220° ±20°	0.25 (50°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	Detents, switch, stereo matching
 T-21	Solder lugs / THT	21 mm	290° ± 20°	0.25 (50°C)	100Ω to 5 MΩ	Linear / Non-linear	±20% / ±30%	-25°C to +70°C (up to +85°C)	Detents, switch, stereo matching

Value-Added Panel Controls

Model	Mounting	Size	Electrical Angle	Power Rating (W)	Resistance Range	Taper	Standard Tolerance	Temperature Range	Optional features	
 DCM-PTT	THT	21 mm	Up to 340° ± 10°	0.15 (50°C)	10 kΩ	Linear	±20% / ±30%	-40°C to +120°C	Detents, end stop	
Push-to-Turn Panel Control, available as gray code / incremental encoder, rotary switch or potentiometer version										
 DCM-PTT-DA	6-pin connector	21 mm	280° ± 10°	0.15 (50°C)	10 kΩ	Linear	±20% / ±30%	-40°C to +120°C	Detents, end stop	
Dual Shaft Push-to-Turn Panel Control, only on request										

Contactless Panel-Mount Control

Model	Mechanical Angle	Electrical Angle	Technology	Linearity	Resolution	Output Protocol	Output Range	Supply Voltage	Supply Current	Connection
 PSE-360	360°	40° to 360°	Hall-Effect	±1% absolute	12 bits	Analog, PWM	10% to 90% Vdc, 90% to 10% Vdc	5V ±10%	Typ 8.5 mA	Fly leads or connector
Compact Panel Mount Hall-Effect Rotary Sensor										
 PSE-290	290°	270°	Hall-Effect	±1% absolute	12 bits	Analog, PWM	10% to 90% Vdc, 90% to 10% Vdc	5V ±10%	Typ 8.5 mA	Fly leads or connector
Compact Panel Mount Hall-Effect Rotary Sensor with mechanical end stop										

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