1850-series

Rotary sensor, single/dual output









6-Pin Contact

3-Pin Contact

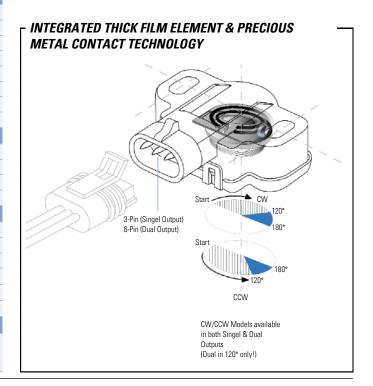
The 9850 Gen II Series offers a highly reliable rotary potentiometer sensor module that can be easily integrated into a wide variety of space-conscious applications requiring installation simplicity, long service life and repeatable accuracy. The 9850 Gen II Series introduces a new, lower profile (15.2mm; maximum connector receptacle height 25.9mm), designed to perform in demanding environments.

Manufactured for optimal cost-economies, the 9850 Gen II Series offers simple yet durable design strengths that can lead to significant systems costs savings. Plug-in simplicity and sealed connector contact is assured via an integral right-angle connector receptacle designed to accept industry-standard Packard Electric METRI-Pack™ connectors. This design also eliminates weak/stress points and leaks in exposure to water.

Twelve standard models offer a choice of 180° or 120° mechanical rotation with round or slotted mounting holes for optimal installation alignment

- Dual-output offers the added functionality of two sensors in a single sensor
- Sealed integral interface accepts industry-standard Packard Electric METRI-Pack™ connectors
- Low-profile design answers space-conscious applications
- Additional mechanical rotation angles available

ELECTRICAL SPECIFICATION				
Active electric rotation	85° or 130° Single Output			
	85° Dual Output			
Resistance	5 kΩ ±20%			
Linearity over active electric rotation				
Standard	±2%			
Special	±0,5%			
Power rating at 70°C	0,15 W			
Recommended load	100 x R			
ENVIRONMENTAL SPECIFICATION				
Temperature range	-40°C- +125°C			
Vibration	15 Gs, 50 to 1000 Hz			
Humidity	95 % at 40°C			
Shock	50 Gs max.			
MECHANICAL SPECIFICATION				
Mechanical rotation	120° - 180° single			
	120° dual			
Mechanical life	5 million cycles			
Stop strenght	max 0,68 Nm			
Torque	max 0,11 Nm			
Mounting torque	max 1,35 Nm			
OPTIONS AVAILABLE				
Integrated switch functions, user-specific electrical/mechanical rotation, mounting hole inserts, resistance and linearities				

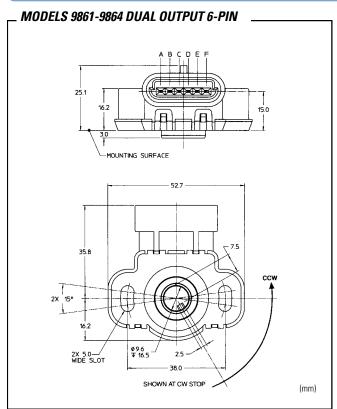


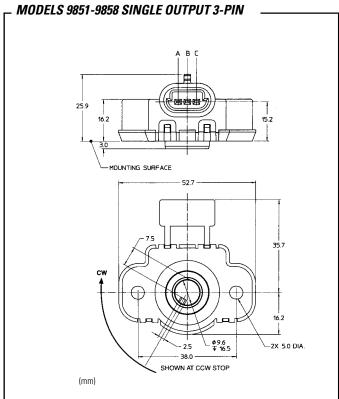
2015-02-16, specifications subject to change without notice





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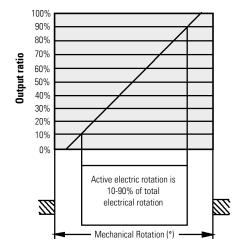




Model	Mechanical rotation	Active electric rotation	Rotation direction*	Mounting hole**
9861	120°	85°	CW	S
9862	120°	85°	CCW	S
9863	120°	85°	CW	R
9864	120°	85°	CCW	R
*Spring-Re	eturn: CW Sensors r	eturn contact to CCW	end CCW Senso	rs return

contact to CW end

^{**} Mounting Hole style: S = Slotted, R = Round

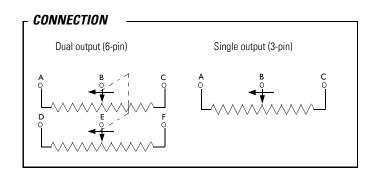


Note: For rotation outside active electrical rotation, linearity may exceed specified tolerances.

Model	Mechanical rotation	Active electric rotation	Rotation direction*	Mounting hole**
9851	120°	85°	CW	S
9852	120°	85°	CCW	S
9853	120°	85°	CW	R
9854	120°	85°	CCW	R
9855	180°	130°	CW	S
9856	180°	130°	CCW	S
9857	180°	130°	CW	R
9858	180°	130°	CCW	R
*Spring-Return: CW Sensors return contact to CCW end CCW Sensors return con-				

tact to CW end

^{**} Mounting Hole style: S = Slotted, R = Round



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