9850-series Gen II

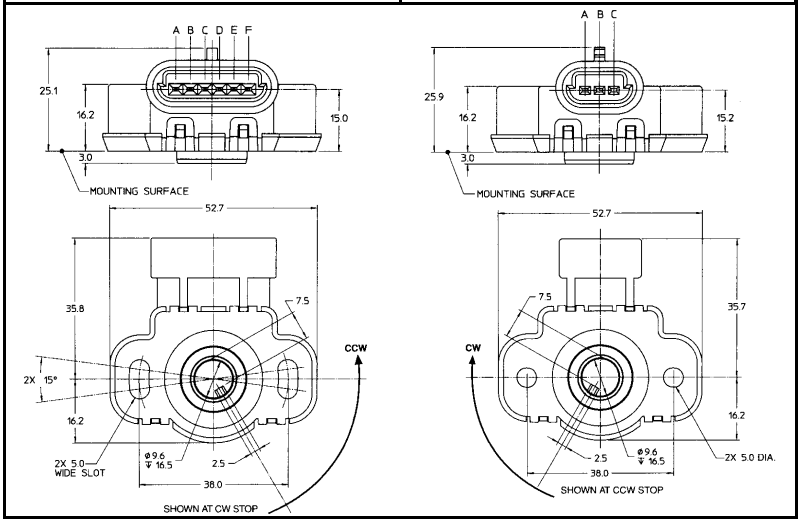
Low Profile Rotary sensor Single/Dual Output

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 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.

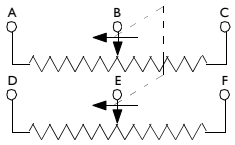
Twelve standard models offer a choice of 180° or 120° mechanical rotation with round or slotted mounting holes for optimal installation alignment.

Models 9861-9864 - Dual output (6-pin) | **Models 9851-9858 - Single output (3-pin)**

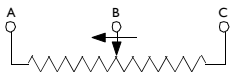


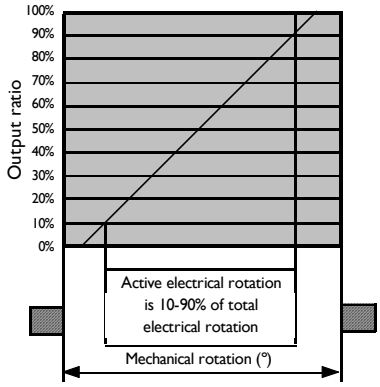
Model	Mech. rotation	Active elec. rotation	Rotation direction*	Mounting hole
9851	120°	85°	CW	S
9852	120°	85°	CCW	S
9853	120°	85°	CW	R
9854	120°	85°	CCW	R
9855	180°	130°	CW	S
9866	180°	130°	CCW	S
9857	180°	130°	CW	R
9858	180°	130°	CCW	R
9861	120°	85°	CW	S
9862	120°	85°	CCW	S
9863	120°	85°	CW	R
9864	120°	85°	CCW	R
*CW sensors return contact to CCW end				S = Slotted
*CCW sensors return contact to CW end				R = Round

Dual output (6-pin)



Single output (3-pin)





3-pin contact

6-pin contact

Environmental Specifications:

Temperature ..... *-40°C to +125°C*
Vibration ..... *15Gs, 50 – 1 000 Hz*
Humidity ..... *95% @ 40°C*
Shock ..... *50 Gs max*

Electrical Specifications:

Active el. rotation ..... *Single output* ..... *85°/130°*
..... *Dual output* ..... *85°*
Total resistance ..... *5 kOhms*
Linearity ..... *Standard* ..... *2,0 %*
..... *Special* *0,5%*
Power rating at 70°C *0.15W*

Mechanical Specifications:

Mechanical rotation ..... *Single output* ..... *120°*
..... *Dual output* ..... *180°*
Mechanical life ..... *1 000 000 full cycles*
..... *5 000 000 dither cycles*
Stop strenght ..... *0,68 Nm max*
Torque ..... *0,11 Nm max*
Mounting torque ..... *1,35 Nm max*

ISO 9001 1236 EN 45012

Specifications subject to change without notice.

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