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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Low-Profile Precision Rotary Sensor Module

$9850_{\text{Series}}^{\text{Gen II}}$

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.

Electrical Specifications

Active Electrical Rotation: 85° or 130° Single Output (See Fig. 1) 85° Dual Output

Total Resistance: $5,000 \text{ ohms } \pm 20\%$

Linearity: Std. $\pm 2.0\%$ over active electrical rotation (See Fig. 1) (Independent) Spec. $\pm 0.5\%$ over active electrical rotation Power Rating At 70°C: 0.15 Watts

Mechanical Specifications

Mechanical Rotation (Nominal): 120°-180° single; 120° dual (See Table A) Shaft Rotation /Direction: (See Table A) Mechanical Life: 1,000,000 full cycles 5,000,000 dither cycles Stop Strength: 0.68 Nm max. Torque: 0.11 Nm max.

Mounting Torque: 1.35 Nm max.

Environmental Specifications

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

Options Available:

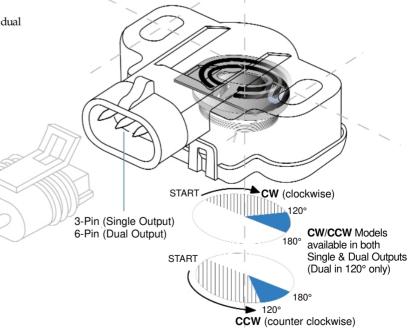
Integrated switch functions, user-specific electrical /mechanical rotation, mounting hole inserts, resistance and linearities.



Generation II Benefits:

- 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

Integrates Duncan's Proprietary Thick Film Element & Precious Metal Contact Technology with Maximum Packaging Flexibility





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Models 9851-9858 – Single Output (3-Pin)

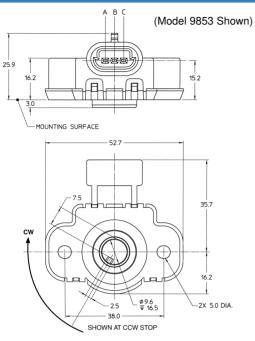
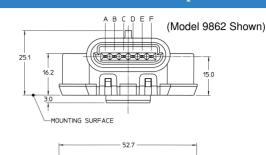
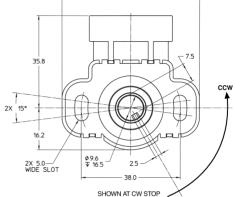


Table A

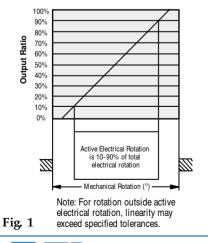
Model	Mechanical Rotation	Active Electrical Rotation	Rotation* Direction	Mounting ¹ Hole
9851	120°	85°	CW	S
9852	120°	85°	CCW	S
9853	120°	85°	CW	R
9854	120°	85°	CCW	R
9855	180°	130°	CW	S
9856	180°	130°	CCW	S
9857	180°	130°	CW	R
9858	180°	130°	CCW	R





Model	Mechanical Rotation	Active Electrical Rotation	Rotation* Direction	Mounting ¹ Hole	
9861	120°	85°	CW	S	
9862	120°	85°	CCW	S	
9863	120°	85°	CW	R	
9864	120°	85°	CCW	R	
Single Output (3-pin)			Dual Output (6-pin)		
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*Spring-Return: CW Sensors return contact to CCW end CCW Sensors return contact to CW end



ENSORS

¹Mounting Hole style: S = Slotted, R = Round

Mating Connector/Interface Information:

Sensor mates with Packard Electric METRI-Pack[™] Series 150 Connectors

Ordering Information

<u>98XX</u>	<u>R5K</u>	<u>L2.0</u>
Model No.	Standard	Standard
(See Table A)	Resistance	Linearity (%)

Example: 9855 R5K L2.0 specifies a model 9855 (180° mechanical rotation, CW rotation direction) single output, 3-Pin Sensor Module with slotted mounting holes, standard resistance 5K ohms $\pm 20\%$, Linearity $\pm 2\%$.

Specifications subject to change without notice. Printed in U.S.A. BE0018-9850GII-1001 Trademarks are the property of their respective companies.

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Models 9861-9864 – Dual Output (6-Pin)