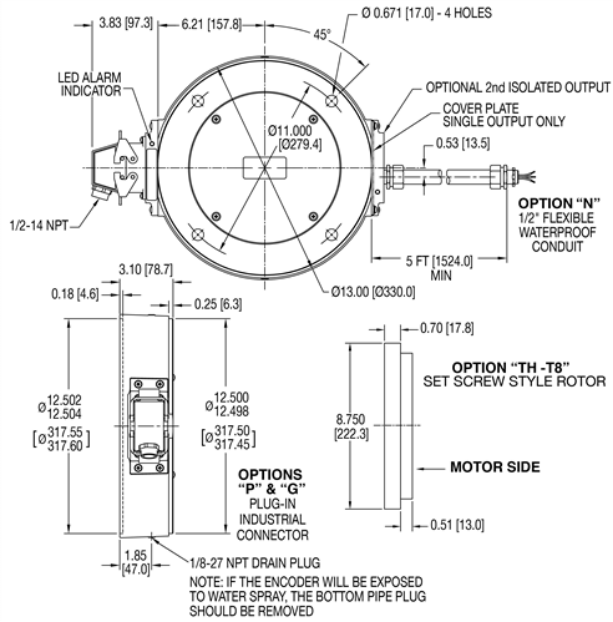


OUTLINE DRAWING



MORE AV125 ADVANTAGES

- SMARTach II sensors find problems before they cause failure
- Replaces Northstar/LakeShore RIM1250™, NexGen 1250, SL1250™; Avtron M1250 models
- Resists motor and brake interference noise
- Reverse voltage protection
- Mix and match any PPR with any rotor
- Permits axial movement up to +/-0.100" [+/-2.54mm]

AV125 SPECIFICATIONS

Operating Power (Each Sensor): 5-24V, 100mA
Output Format: A Quad B with marker (A,A-, B,B-, Z,Z-)
Frequency Range: 0 to 165 KHz
Maximum Instantaneous Current Output: 3000mA*
PPR: 8-8192
Speed: 5000 RPM Max. (contact factory for higher speeds)
Rotor Positioning: Up to +/-0.100" movement/misalignment
Sensor-Rotor Gap: 0.050", +0.015/-0.040" [1.27mm+0.38/-1.0]
Temperature: -40° to 100°C (rotor -40° to 150°C peak)
Electronics: Fully Encapsulated, IP67**
Vibration: 18 g's
Shock: 1 meter drop test

*Output option 8; see manual for details.
 **Connector options may reduce IP rating.

Check out our website for more detailed specifications, drawings, and installation instructions. www.avtronencoders.com

All dimensions are in inches [millimeters]. Specifications and features are subject to change without notice.
 Northstar/LakeShore RIM1250™ and SL1250™ are trademarks of Dynapar.
 Spare sensors, rotors, through-shaft cover plates, and shaft grounding kits can be ordered separately.

SELECTION GUIDE

AV125 PART NUMBERS AND AVAILABLE OPTIONS												
Model	Thru Shaft Rotor Bore, US Sizes		Inboard & Outboard Cover Plates		Left Module			Right Module			Connector Options	Modifications
					Line Driver	PPR		Line Driver	PPR			
AV125	XX- no rotor TH- 1.375" TJ- 1.625" TL- 1.875" TM- 2.000" TN- 2.125" TQ- 2.250" TP- 2.375" TR- 2.500" TT- 2.625" T2- 2.875" TV- 3.125" TW- 3.250"	TY- 3.375" T4- 3.875" TB- 4.125" T5- 4.250" TC- 4.375" T6- 4.500" TD- 4.625" TA- 4.875" TG- 5.000" T7- 5.375" T8- 6.750" T9- 7.875"	X- none F- no inboard, flat outboard T- no inboard, thru outboard	X- none 8- 5-24V in/ 5-15V out, 4125 hi-power 9- 5-24V in, 5V out 7272	X- none C*-50 F- 60 G- 100 H- 120 A- 128 B*-150 L- 240 N- 256 P- 300 E- 360 B- 480 Q- 500 R- 512	S- 600 V- 900 J- 960 Y- 1024 Z- 1200 A*-1270 3- 2000 4- 2048 5- 2500 D- 4096 8- 4800 9- 5000 0-special	X- none 8- 5-24V in/ 5-15V out, 4125 hi-power 9- 5-24V in, 5V out 7272	X- none C*-50 F- 60 G- 100 H- 120 A- 128 B*-150 L- 240 N- 256 P- 300 E- 360 B- 480 Q- 500 R- 512	S- 600 V- 900 J- 960 Y- 1024 Z- 1200 A*-1270 3- 2000 4- 2048 5- 2500 D- 4096 8- 4800 9- 5000 0-special		000- none 002*-Select alternate PPR assignment code 003- Include analog signal converter (K661) 004-Super magnetic shielding	
Connector Options												
Mounted on Encoder Body			3' Cable			5' Flexible Conduit			* To specify this PPR, also specify modification code 002. Spare sensors, rotors, through-shaft cover plates, and shaft grounding kits can be ordered separately. (See Tables 2 and 3) Cam screw rotors patented.			
Industrial Connector	10 pin MS	Other	Industrial Connector	Mini MS	Other	Industrial Connector	Mini MS	Other				
P- with Plug G- (Northstar™ Pinout) with Plug	A- without Plug B- with Plug C- with Plug & Flex. Conduit Adapter L- with Right Angle Plug	K- Condulet with Leads R- Mini MS/ Twist Lock with Plug	Z- with Plug	S- Baldor Twist Lock with Plug	W- Leads only	N- Leads only T- Terminal box						

CE Pending

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Nidec-Avtron Makes the Most Reliable Encoders in the World

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