

Avtron THIN-LINE™ M115

Magnetic, Modular Encoder, 115mm Flange Mount



GET THE THIN-LINE EDGE!

- Heavy Mill Duty
- Simple Installation
- Wide-Gap Technology, No Air Gap Adjustment Required
- Mounts Securely to Motor
- No Couplings or Bearings
- Thin Profile
- Sealed Electronics
- Dual Flange Standard
- Marker Pulse Standard
- Dual Output Option
- -40°C to +100°C Operation
- 3 Year No-Hassle Warranty
- Excellent for Gear Motors and Brake Applications

M115 THIN-LINE™ heavy mill duty modular magnetic encoders (also known as digital tachometers and pulse generators) fit standard 115mm Flange motors. Other THIN-LINE models, ranging from 4.5" to 8.5", are available to fit other motor sizes as needed.

End the Encoder Grind with THIN-LINE Wide-Gap Sensor Technology! Modular magnetic encoders from competitors have a tiny space, less than 0.2 mm, between the rotor, sensor, and housing!

This leads to rotor damage and encoder failure with the slightest misalignment, shaft deflection, or axial movement. THIN-LINE encoders have a sensor air gap over 2.5 times larger than the competition, so installation and replacement don't require shimming or adjustment; this prevents the rotor from grinding against the sensor or the housing if the tachometer is installed imperfectly or there is shaft runout. The Wide-Gap Sensor also permits replacement and

reinstallation of electronics and stator of the THIN-LINE encoder without removing the rotor. This slashes installation time and problems; no more rotor grinding!

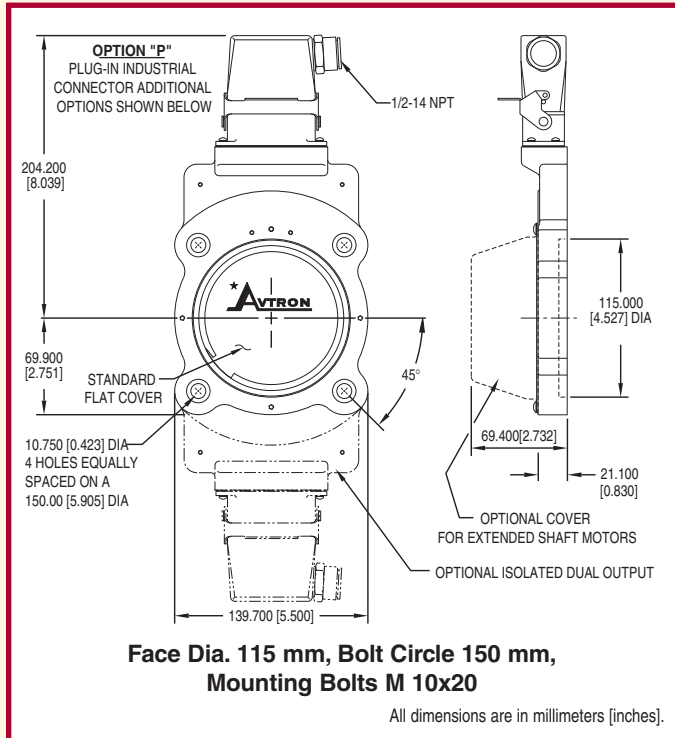
Why settle for unreliable, fragile optical encoders or magnetic encoders that can't handle your demanding applications? Upgrade to THIN-LINE Today!



QUALITY SYSTEM CERTIFIED TO ISO 9001
www.avtron.com/tachs.htm

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OUTLINE DRAWING



Check out our web site for more detailed specifications, drawings, and installation instructions.
www.avtron.com/tachs.htm

MORE THIN-LINE ADVANTAGES

- Resists failures from dirt, oil, and water contamination
- Highly resistant to electrical and magnetic motor and brake noise
- If damaged, electronics can be replaced without removing rotor
- Highest rotor holding force available for crane/hoist/brake applications
- No air gap adjustment required
- Tough coating on all surfaces
- Available through-shaft option with shaft seal
- Fits shafts 11-85mm
- Fits Nidec FEK motors
- 100,000+ hour MTBF design

M115 SPECIFICATIONS

Operating Power: Volts: 5 - 24 VDC; Current: 80mA, no load

Output Format: A, \bar{A} , B, \bar{B} , Z, \bar{Z}

Second Isolated Output: Optional

Frequency Range: 0 to 150 KHz

PPR: 90 - 2048

Speed: 5000 RPM Max. std., for higher speeds, consult factory

Electronics: Fully Encapsulated

Temperature: -40° to 100°C

Vibration: 18 g's

Shock: 1 meter drop test

Chemical: Polyurethane enamel paint protects against salt spray, mild acids, and bases.

CE Rated

SELECTION GUIDE

M115-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Model	Housing Type	Shaft Size (Thru Shaft Type Rotor)	Cover Style	Line Driver	Single Output Range	Dual Output Range	Output Connection	Modifications			
	1- Single Output, 115mm Pilot 2- Dual Output, 115mm Pilot	0- Non-Standard Shaft Size X- None 2- 10mm L- 42mm A- 11mm M- 45mm 3- 12mm N- 48mm B- 14mm P- 52mm C- 15mm R- 55mm D- 16mm S- 60mm E- 19mm T- 65mm F- 24mm V- 70mm G- 28mm W- 75mm H- 30mm Y- 80mm i- 32mm Z- 85mm J- 36mm K- 38mm	X- None F- Flat Cover T- Flat Thru-Hole Cover with Shaft Seal	1- 5 to 24 VDC 2- 5 to 15 VDC	J- 90 PPR F- 120 PPR A- 128 PPR G- 240 PPR B- 256 PPR K- 360 PPR H- 480 PPR C- 512 PPR L- 600 PPR N- 720 PPR P- 900 PPR i- 960 PPR D- 1024 PPR M- 1200 PPR E- 2048 PPR	X- None J- 90 PPR F- 120 PPR A- 128 PPR G- 240 PPR B- 256 PPR K- 360 PPR H- 480 PPR C- 512 PPR L- 600 PPR N- 720 PPR P- 900 PPR i- 960 PPR D- 1024 PPR M- 1200 PPR E- 2048 PPR	P- 10 Pin Industrial Connector with Plug W- 1 M Flexible Cable, Sealed Z- 1 M Flexible Cable with Industrial Connector	000- No Modification Special Modifications			



THIN-LINE™ is a trademark of Avtron.
All dimensions are in millimeters [inches].
Specifications and features are subject to change without notice.