

Avtron AV44 Encoders



Heavy Mill Duty Magnetic Shafted Encoder, B10 and PY Flange Options

Magnetic Durability in a Metric Encoder

- Simple Installation
- Up to 10000 PPR
- Replaces Competitive Models without Rewiring
- High Power Outputs Standard
- 40°C to +100°C Operation
- Fully Insulated from Motor Shaft Currents
- 2 Year No-Hassle Warranty
- No Fragile Optics, No Glass Disks
- Cast Aluminum Heavy Duty Housing
- UL Listed; CE Compliant

AV44

The AV44 is a rugged heavy mill duty incremental solid shaft encoder that offers excellent signal quality with modern drives. AV44 carries forward Avtron Encoders' DNA of ensuring uptime with sturdy construction the durability of magnetic sensing and resistance to environmental contaminants.

Avtron AV44 encoders offer an 11mm shaft with a "B10 Euroflange" and a 5/16" shaft with "PY" flange, or the option to foot-mount for a wide range of industrial applications. The AV44 is a drop-in replacement for Baumer Hubner POG 9 & 10 models, as well as Leine & Linde 560 & 855 models. And it adds superior durability and diagnostics!

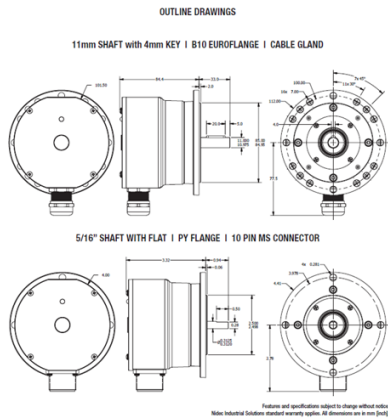
The AV44 includes high power outputs that can drive cables up to 1000' [300m] with full short circuit and over-voltage protection!

On-board diagnostics check all aspects of the encoder - from the sensor to the output line driver circuit - and provide a clear indicator that the encoder is working well. No more fumbling with a PC or oscilloscope to determine if your encoder is working properly!

Avtron AV44 encoders have superior shaft seals and bearings that stay sealed to keep out contamination caused by temperature cycling and liquid sprays. Often, competitors optical encoders fail because of dust or water contamination that prevents the sensor from seeing the optical disk. The AV44 advanced magnetic technology sees through contamination ignoring water, oil, dust and dirt. This ensures your machine keeps working, even in the toughest application environments.

Select an Avtron AV44 and upgrade your machine today!

OUTLINE DRAWING



MORE AV44 ADVANTAGES

- All digital design; no adjustments or potentiometers required
- Fits European and North American generators and motors B10 Euroflange faces and PY faces
- Diagnostic LED & alarm output contact option
- Grounding (earthing) strap and custom length Anti-Rotation Arms available

MORE AV44 SPECIFICATIONS

Operating Power: Volts: 6-30 VDC; Current: 80mA, no load

Output Format: A Quad B with marker (A,/A, B,/B, Z,/Z)

Frequency Range: 0 to 250 kHz @6V & 1m cable

PPR: 1 - 10000 standard (for other PPR needs, consult factory)

Speed: 6000 RPM Max., (for higher speeds, consult factory)

Temperature: -30° to 85°C std, *optional: -40° to 100°C

Environmental: IP66 housing

Vibration: 10-2000Hz, 17Gs

Shock: 275G, 6ms duration

Axial Bearing Load: 500 N

Radial Bearing Load: 1200 N

Weight: 2.5 lbs. [635 g] approx

Certifications: CE, UL

Warranty: 2 Year No-Hassle

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

SELECTION GUIDE

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MODEL	SHAFT	FLANGE	CONNECTOR	MARKER GATING	LINE DRIVER	PPR (SINGLE)	PPR (DUAL)	MODIFICATIONS
AV44	1 - 11mm Solid Shaft - Standard Bearings 5 - 5/16" Solid Shaft - Standard Bearings	B - B10 Euroflange (112mm dia, 100mm BC 6x 7mm, 85mm pilot) P - PY Flange (4.41 in. dia, 3.978 in. BC, 4x 0.281 in., 2.5 in. pilot)	2 - M23 12 Pin (CW Pin #s) - Standard Phasing 3 - M23 12 Pin (CW Pin #s) - Reverse Phasing T - M12 8 Pin - Turck Pinout 5 - M23 17 Pin (CW Pin #s) - Standard Phasing U - M12 8 Pin U.S. Pinout W - Cable, 0.5m (or special length) Y - Cable Entry, M20 cord grip 4 - M20 Cable Gland (12.7-15.7mm) W/O Cable, W/ GND Block on Cover A - 10 Pin MS, without Plug - Standard Phasing C - 10 Pin MS, with Plug - Standard Phasing B - 10 Pin MS, without Plug - Reverse Phasing D - 10 Pin MS, with Plug - Reverse Phasing	K - 1/4 AB Cycle Sync with A & B High L - 1/2 AB Cycle Sync with B Low M - 1 AB Cycle Sync with A High U - Ungated Wide Marker T - 1/4 AB Cycle Sync with A & B High (Avtron Legacy)	1 - 5-30V In/Out (Hx- hi power) 2 - 5-30V In / 5V Out (Hx) 3 - 5V In/Out (Hx)	AA - 32 PPR BG - 40 PPR AK - 80 PPR AL - 240 PPR AM - 250 PPR AN - 256 PPR A7 - 288 PPR AR - 512 PPR AW - 1000 PPR AY - 1024 PPR AZ - 1200 PPR CX - 1500 PPR A3 - 2000 PPR A4 - 2048 PPR A5 - 2500 PPR AT - 3072 PPR AD - 4096 PPR A9 - 5000 PPR A2 - 8192 PPR K1 - 10000 PPR	XX - None	000 - No Special Modifications 068 - Remote Alarm Output 070 - Expanded Temp Range (-40C to +100C) 077 - High Speed (>4500 RPM) 081 - Expanded Temp Range (-40C to +100C), High Speed (>4500 RPM) 123 - M925 10 Pin MS Compatible Pinout 901 - 1m (3 feet) Custom Cable Length 902 - 2m (6 feet) Custom Cable Length 905 - 5m (16 feet) Custom Cable Length 910 - 10m (33 feet) Custom Cable Length 920 - 20m (66 feet) Custom Cable Length 930 - 30m (98 feet) Custom Cable Length 940 - 40m (131 feet) Custom Cable Length 950 - 50m (164 feet) Custom Cable Length 960 - 60m (196 feet) Custom Cable Length 970 - 70m (229 feet) Custom Cable Length 980 - 80m (262 feet) Custom Cable Length 990 - 90m (295 feet) Custom Cable Length



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