

## Avtron AV850 SMARTach™ III Encoders



### Heavy Mill Duty Magnetic Modular Encoder, 8.5" C-Face Mount

#### Magnetic Durability in a Compact Encoder

Heavy Mill Duty

Installation in Minutes!

Up to 50000 PPR

Removable Sensors

Wide-Gap Technology, No Air Gap Adjustment Required

Mounts Securely to Motor

Outputs Fully Short Circuit Protected

Self-Diagnostic LED & Alarm Output

Sealed Electronics

-40°C to +100°C Operation

3 Year No-Hassle Warranty

Excellent for Gear Motors and Brake Applications

#### AV850

SMARTach™ III Magnetic, Modular Encoder, 8.5" C-Face Mount  
AV850 SMARTach III heavy mill duty modular magnetic encoders fit standard 8.5" FC-Face motors. Other models, from 115mm to 12.5", are available to fit other motor sizes, and hazardous duty models: XR850 and XPH8 intrinsically safe and SV850 functional safety encoders are also available.

Quite simply, the AV850 is designed to eliminate encoder failures. All AV850 electronics are fully encapsulated. There are no moving wearing parts. AV850 sensors locate over 4X farther from the rotor than the competition; no more sensor/rotor grinding!

Miswiring an encoder is common— and it shouldn't cost you time or money. The AV850 has full output short circuit and reverse voltage protection, plus surge protection. AV850 SMARTach III sensors digitally self-tune the outputs to eliminate drive trips caused by poor encoder signals. The universal 5-24V design drives longer cables and is protected against wiring errors.

**Adaptive Electronics:** At power-up you know you installed it right! The green LED tells you your AV5 Sensor is aligned with the rotor and reading signal. If at any time, the AV5 cannot produce consistent signals, the LED changes to red and the optional remote alarm contact activates. However, the encoder keeps working to give you time to schedule service. Even wiring errors and short circuits that cause an over-temp situation will be detected and indicated by changing the LED to orange.  
If you think you need to replace your drives to end your encoder failures, try a better encoder instead. Specify AV850!

