

09/14/25



## Avtron AV485 SMARTach™ III Encoders



**Severe Mill Duty Magnetic Encoder;  
Foot or NEMA 56C Face Mount, 5/8"  
Solid Shaft**

### **Magnetic Durability in a Compact Encoder**

Severe Mill Duty Up to 50000 PPR

Replaces Competitive Models  
Without Rewiring

Self-Diagnostic LED & Alarm  
Output

Foot or NEMA 56C Face Mount  
Removable Sensors IP66 Enclosure

High-Power Output Standard

Outputs Fully Short Circuit  
Protected

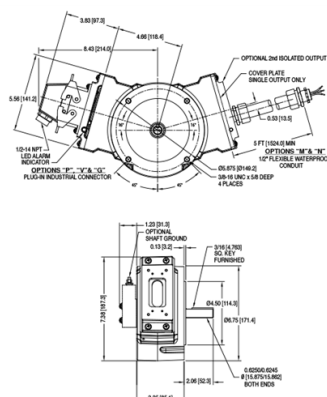
Optional Dual Isolated Outputs

1 Year No-Hassle Warranty

### **AV485**

The AV485 is designed to withstand the worst environments: buried in slag, coated in pulp, sprayed with salt water or cutting coolants, it keeps working. The modular, gull-winged design makes it easy to install and service; the base can be bolted in place without removing the encoder, and the AV5 wide-gap removable sensors require no adjustment or shimming. The sensors are fully potted to protect against liquids, and are interchangeable between AV850, AV485, and AV685 encoders. The universal 5-24V design drives longer cables and is protected against wiring errors and surges. A second backup output is available with the same or different PPR, and offers completely separate electronics for maximum uptime.

## OUTLINE DRAWING













Weight: 14 lbs. [6.4 kg] / 16 lb [7.3 kg] dual output

Specifications and features are subject to change without notice.

## SELECTION GUIDE

AV485NXD6FXXW000

									
MODEL	TEMPERATURE RATING	FOOT MOUNTING	SHAFT MOUNTING	LEFT OUTPUT LINE DRIVER	LEFT OUTPUT PPR	RIGHT OUTPUT LINE DRIVER	RIGHT OUTPUT PPR	CONNECTOR OPTIONS	MODIFICATIONS
AV485	N - -20°C to +80°C (Standard)	X - Standard NEMA 56C 4.5 in. Face Mount (No Foot Mount Included)	D - Dual 5/8 in. x 2 in. Stainless Steel Shafts, each with 3/16 in. Key way & Key	6 - 5-24v in, 5-24v out (7272) recommended for single-ended wiring (A,B,Z, no complements)	F - 60 PPR	X - No Right Output	X - No Right Output	W - 36 in. Sealed Cable w/Color Coded Leads	000 - No Special Options



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