

OUTLINE DRAWING

MORE AV85 ADVANTAGES

- Replaces Avtron M85, Northstar/Dynapar™ D8, D850, S8, S85, S850, SL85, ST85; online cross reference guide available
- Shrugs off dirt, oil, and water contamination
- Highly resistant to electrical and magnetic motor and brake noise
- Patented Cam Screw Rotor™ eliminates rotor slipping
- Built-in motor position guide and diagnostic check
- No air gap adjustment required
- Corrosion-resistant coating on all metal surfaces
- Second C-face included for outboard brake/accessory mount
- Sealed thru-shaft option
- Fits shafts 0.500" - 3.188" [10 - 85 mm]
- 4,500,000+ hour MTBF design

AV85 SPECIFICATIONS

Operating Power: Volts: 5 - 24 VDC; Current: 100mA, no load
Output Format: A Quad B with Marker (A,/A, B,/B, Z,/Z)
Second Isolated Output: Optional
Frequency Range:
 @5V, @1m cable, 250 kHz Max
 @24V, @300m cable, #8 output, 45 kHz Max
Maximum Cable Length: 1000'
PPR: 4 - 50000
Speed: 5400 RPM Max. std., for higher speeds, consult factory
Electronics: Fully Encapsulated, IP67 (see manual for details)
Temperature: -40° to 100°C (150°C rotor)
Vibration: 18 g's
Shock: 1 meter drop test
Chemical: Polyurethane enamel paint protects against salt spray, mild acids, and bases.
Weight: 2 - 3 lbs [0.9 - 1.36 kg]

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.

SELECTION GUIDE

AV85 PART NUMBERS AND AVAILABLE OPTIONS								
Model	Housing Type	Shaft Size (Thru Shaft Rotor)	Cover Style	Line Driver	Single/Left Output (PPR)	Right Output (PPR)	Connector	Modifications
AV85A	1- Single Output 2- Dual Output	CO- Non-std. Shaft Size XX- None Thru Shaft Rotor US Metric CA- 0.500 D2- 10mm CB- 0.625 DA- 11mm CC- 0.875 DB- 12mm CD- 0.938 DB- 14mm CE- 1.000 DC- 15mm CF- 1.125 DD- 16mm CG- 1.250 D4- 18mm CH- 1.375 DE- 19mm CT- 1.500 DF- 24mm CJ- 1.625 DG- 28mm CK- 1.750 DH- 30mm CL- 1.875 DT- 32mm CM- 2.000 DJ- 36mm CN- 2.125 DK- 38mm CO- 2.250 DL- 42mm CP- 2.375 DM- 45mm CR- 2.500 DN- 48mm TS- 2.625 DP- 52mm TU- 2.875 DR- 55mm TW- 2.750 DS- 60mm TV- 3.000 MU- 65mm* T4- 3.125 MV- 70mm* T7- 3.188 MW- 75mm* TZ- 3.250 MY- 80mm* MZ- 85mm*	E- Extended Shaft Cover F- Flat Cover T- Flat Thru-Hole Cover with Shaft Seal D- Dome Cover	6- 5-24V in/out 8- 5-24 V in, 5-24 V out high power 9- 5-24V in, 5V out	G- Non-std. V- 600 J- 60 J- 960 W- 100 W- 1000 H- 120 Y- 1024 A- 128 Z- 1200 L- 240 3- 2000 N- 256 4- 2048 P- 300 5- 2500 E- 360 D- 4096 B- 480 8- 4800 Q- 500 9- 5000 R- 512	G- Non-std. V- 600 J- 60 J- 960 W- 100 W- 1000 H- 120 Y- 1024 A- 128 Z- 1200 L- 240 3- 2000 N- 256 4- 2048 P- 300 5- 2500 E- 360 D- 4096 B- 480 8- 4800 Q- 500 9- 5000 R- 512 X- None	W- 9ft. Cable, Sealed	000-No Modification 004-Add Housing Drain (single output only) 005-Super Magnetic Shielding 4xx-Special PPR Enter Ø in the PPR code(s), select the special option code below 9xx-Special Cable Length, xx=length in feet 00W- Connector on 18" cable: Use w/ options "T", "U"

Connector Options							
Mounted on Encoder			Mounted on Flex cable			00W	
10 Pin MS	10 Pin EPIC	10 Pin mini MS	7 Pin MS**	10 Pin MS**	10 Pin EPIC**	10 Pin mini MS**	
Not Available	G- w/ plug Northstar pinout P- w/ plug	R- w/ plug	J- w/o plug	Y- 12" cable w/o plug on conduit box (Large Encoder Pinout)	Q- 18" cable w/o plug on remote mount blade Z- 36" cable w/ plug	S- 18" cable w/ plug	T- w/o plug (Turck Pinout) U- w/o plug (US Pinout)

(*)Requires Special option 00W



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