

Features

- Non-contacting magnetic technology
- Highly resistant to vibration/shock
- Highly resistant to fluid/dust ingress
- Programmable at factory for zero position
- Robust design for industrial applications
- Highly repeatable

AMS22U Non-Contacting Analog Rotary Position Sensor

Dual ball bearing

RoHS compliant*

Electrical Characteristics ¹ (@ 25 °C)	
VDD Supply Voltage	
Supply Current ²	
For Low Speed Processing (Code L)	
For High Speed Processing (Code H)	20 mA max.
Output Signal (Single)	
Independent Linearity	
	(±0.3 % available on request)
Hysteresis	
Effective Electrical Angle ³	
Programmable Electrical Angle	
Voltage Output (Programmable)	
Output Resolution	
Load Resistance Recommended	
Overvoltage Protection	
Reverse Voltage Protection	-10 VDC

Environmental Characteristics

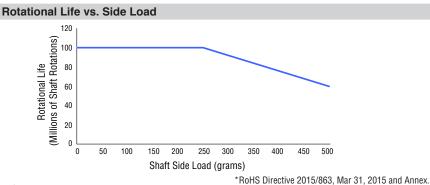
Operating Temperature	-40 ° to +125 °C
Moisture Resistance	MIL-STD-202, Method 106
Insulation Resistance @ 500 VAC	
Rotational Life (Shaft Revolutions)	100 million
Vibration	15 G
Shock	
IP Rating	IP50
ESD Safe	2 kV max.

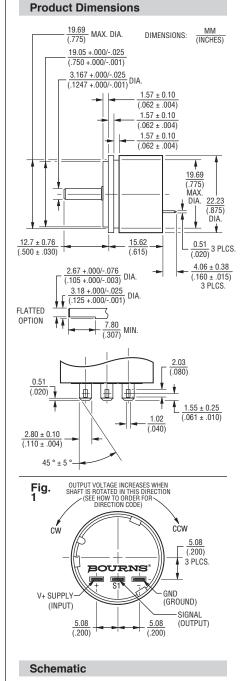
Mechanical Characteristics (@ 25 °C)

Mechanical Angle	
Torque (Starting & Running)	
	Stainless steel
Terminals	Brass / 100 % matte tin over Ni Strike (e3)
Bearing	
Soldering Condition	Ĵ
Manual Soldering	
-	rosin cored wire; 370 °C (700 °F) max. for 3 seconds
Wave Soldering	
-	260 °C (500 °F) max. for 5 seconds
Wash Processes	

¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted. ² See "Processing Speed" in How to Order selection guide.

³ Other Effective Electrical Angles available. See How to Order selection guide.









Specifications are subject to change without notice.

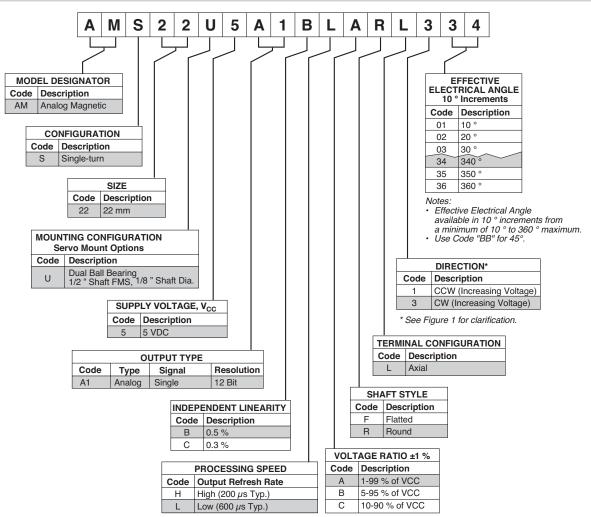
Users should verify actual device performance in their specific applications.

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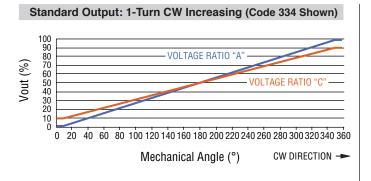
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How To Order



Shaded areas represent most common features.



Resolution

EEA	Resolution	EEA	Resolution	EEA	Resolution
10	114	130	1479	260	2958
20	228	140	1593	270	3072
30	341	150	1707	280	3186
40	455	160	1820	290	3300
45	512	170	1934	300	3413
50	569	180	2048	310	3527
60	683	190	2162	320	3641
70	796	200	2276	330	3755
80	910	210	2389	340	3868
90	1024	220	2503	350	3982
100	1138	230	2617	360	4096
110	1252	240	2731		
120	1365	250	2844		

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