

Flectrical Characteristics1 (@ 25 °C)

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

■ RoHS compliant*

Product Dimensions

11.3 ± 0.38 (.445 ± .015)

22.23 (.875) DIA.

0.51

 $\frac{0.01}{(.020)}$

 2.80 ± 0.10

 $(.110 \pm .004)$

Figure 1

V+ SUPPLY

 $\frac{10.29 + 0.00/-0.05}{(.4051 + .0000/-.0020)} \, \text{DIA.} \\ \frac{6.342 + 0.000/-0.007}{(.2497 + .0000/-.0003)} \, \text{DIA.} \ \, \neg$

2 ±5 ° X 0.25 CHAMFER

(.062) /- 3/8-32-UNEF

 $\frac{9.53 \pm 0.78}{(.375 \pm .031)}$

(.080)

 $\frac{1.55 \pm 0.25}{(.061 \pm .010)}$

ccw

5.08 (.200) 3 PLCS

(GROUND)

 $(.190 \pm .002)$

 22.23 ± 0.76

(.875 ± .030)

 $\frac{4.06 \pm 0.38}{(.160 \pm .015)}$

<u></u>

OUTPUT VOLTAGE INCREASES WHEN SHAFT IS ROTATED IN THIS DIRECTION (SEE HOW TO ORDER FOR DIRECTION CODE)

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FLATTED OPTION

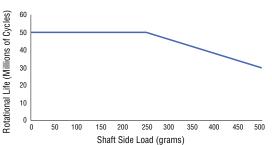
 $\frac{6.35 \pm 0.08}{(.250 \pm .003)}$

(.040)

AMS22B Non-Contacting Analog Rotary Position Sensor

Electrical Characteristics (@ 25 °C)	
Supply Current	
Environmental Characteristics	
Moisture Resistance	40 ° to +125 °C
Mechanical Characteristics (@ 25 °C)	
Shaft/RPM Torque Starting & Running Mounting Shaft Material	
BearingSoldering Condition	Brass / 100 % matte tin over Ni Strike (e3) Bronze sleeve 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean
Mariual Soluering	

Rotational Life vs. Side Load



[|] Schematic | Sche



^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

rosin cored wire; 370 °C (700 °F) max. for 3 seconds

260 °C (500 °F) max. for 5 seconds

Users should verify actual device performance in their specific applications.

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¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

 $^{^{\}rm 2}$ Other Effective Electrical Angles available. See How to Order selection guide.

Applications

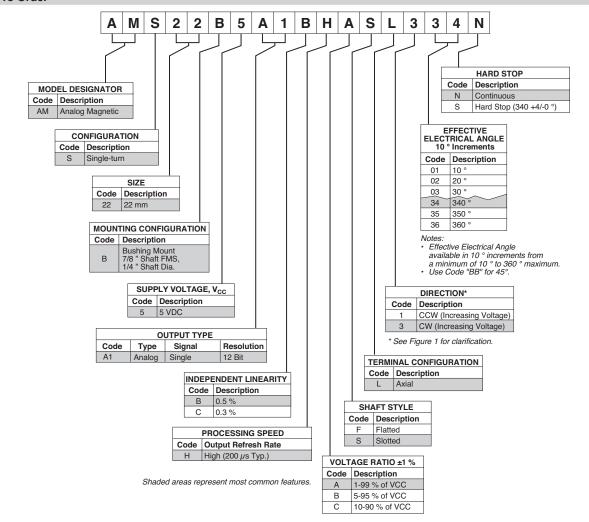
- Patient platform positioning feedback
- Pneumatic control valve position feedback
- Draw wire position sensors
- Remote communications antenna positioning
- Actuator motor position feedback
- Automated manufacturing robotics

- Tilt control and tilt positioning feedback
- Foot pedal, steering, lift-and-shuttle and suspension systems

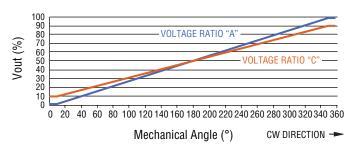
AMS22B Non-Contacting Analog Rotary Position Sensor

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How To Order



Standard Output: 1-Turn CW Increasing (Code 334 Shown)



Resolution

Heddidalon									
EEA	Resolution		EEA	Resolution]	EEA	Resolutio		
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					

REV. 04/20

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