

Floctrical Characteristics (@ 25 °C)

**Features** 

Non-contacting magnetic technology

■ Highly resistant to vibration/shock

■ Highly resistant to fluid/dust ingress

- Programmable slope
- Robust design for industrial applications
- Ideal memory positioning sensor

■ RoHS compliant\*

**Product Dimensions** 

# **AMM20B Multiturn Magnetic Position Sensor**

Electrical Characteristics <sup>1</sup> (@ 2	25 °C)
	5 V ± 10 %
Supply Current <sup>2</sup>	L) 12 mA max.
	L)
	Analog
	±0.5 % (±0.3 % available on request)
Backlash	< 10 ° typ.
Effective Electrical Angle <sup>3</sup>	•
3-10 Turns1080 °,	, 1440 °, 1800 °, 2160 °, 2520 °, 2880 °, 3240 ° or 3600 °
11-16 Turns	3960 °, 4320 °, 4680 °, 5040 °, 5400 °, 5760 °
	+20 VDC
	10 VDC
Environmental Characteristics	
	40 ° to +125 °C
Humidity	MIL-STD-202, Method 103, Condition B
Insulation Resistance @ 500 VAC	
Rotational Life (Shaft Revolutions)	50 million
	15 G
	50 G
IP Rating	IP50
Mechanical Characteristics (@	25 °C)
Mechanical Angle	
Snart/RPM Torque	500 RPM max.
	2.82 N-cm. (4.0 oz-in.) max.
3	
Terminal Pins	Phos. Bronze, 100 % tin plated (e3)
	Bronze sleeve
	UL94V0
Soldering Condition	00 500/2 040/0 500 22/2 00/2 22
wanuai Soidering	
Waye Soldering	
vvavo ooldonng	260 °C (500 °F) max. for 5 seconds
Wash processes	Not recommended

- <sup>1</sup>At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.
- $^{2}\ \mbox{See}$  "Processing Speed" in How to Order selection guide.
- <sup>3</sup> Other Effective Electrical Angles available. See How to Order selection guide.

#### Resolution

No. of Turns	EEA	Resolution
3	1080	1228
4	1440	1638
5	1800	2047
6	2160	2456
7	2520	2866
8	2880	3275
9	3240	3685

No. of lurns	<u> </u>	Resolution
10	3600	4094
11	3960	2816
12	4320	3072
13	4680	3328
14	5040	3584
15	5400	3840
16	5760	4096

### 6.34 +0.00/-0.07 (.250 +.000/-.003) DIA. (.025 ± .010) 10.29 +0.00/-0.13 202/ 205) DIA (.405 +.000/-.005) 1.570 (0.062) $\frac{9.53 \pm 0.38}{(.375 \pm .015)}$ 21.55 ± 0.38 $(.812 \pm .031)$ $(.848 \pm .015)$ $7.62 \pm 0.38$ (.300 ± .015) $0.64 \pm 0.25$ 0.250 (0.010) X 45 ° CHAMFER 5.080 3/8 " 32-UNEF-2A THD ~ (0.200)-ADJUSTMENT SLOT $\frac{0.81}{(.032)}$ WIDE X $\frac{0.81}{(.032)}$ DEEP AMM20B 20.22 (0.80)B 14.29 TOLERANCES EXCEPT WHERE NOTED DECIMALS: .XX $\pm \frac{.50}{(.02)}$ .XXX $\pm \frac{.127}{(.005)}$

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

MM

(INCHES)

DIMENSIONS:

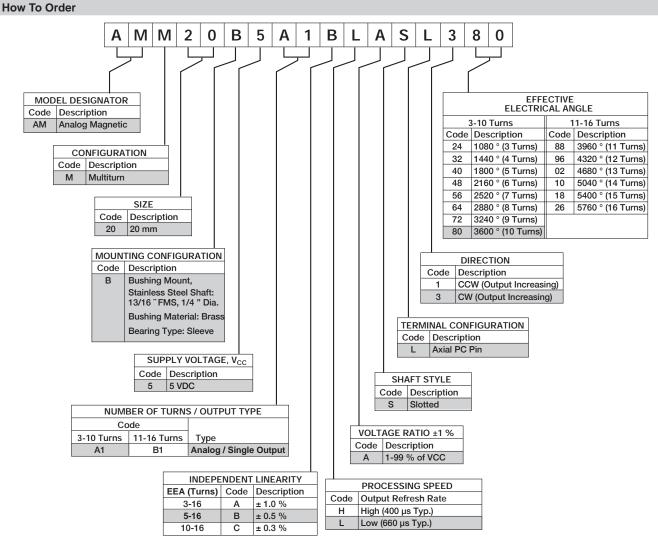
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

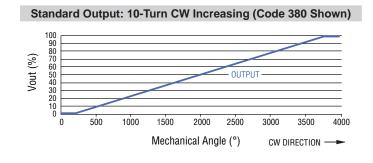
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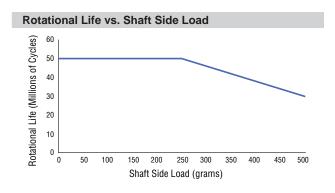


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Shaded areas represent most common features.





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