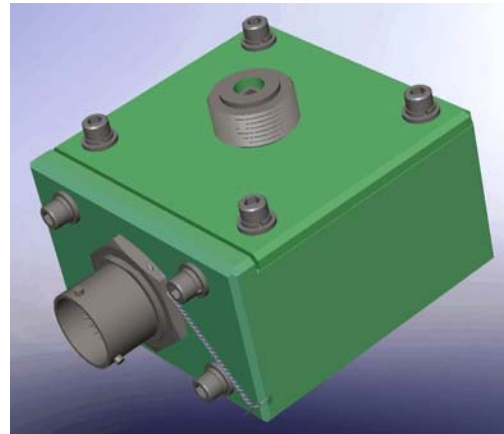


The VMS is a device which converts shaft rotation to distance traveled. This unit consists of an optical encoder assembly, integrally mounted to a through shaft, supported on ball bearings. Shaft rotation is detected by light passed through a metal code disk and sensed by photo diodes. The outputs from the photo diodes are converted to logic level square waves whose frequency is a multiple of shaft speed. The output is used by Land Navigation Systems to correct inertial reference signals.



MAIN FUNCTIONS:

- Converts vehicle odometer cable shaft revolutions into pulse trains representing forward and reverse vehicle motion
- Data transfer to the Vehicle Reference Unit (VRU), via EIA Standard RS-422 balanced differential voltage circuits
- Performs Built-In-Test (BIT) of itself when commanded by the VRU
- VMS is radiation-hardened

CONFIGURATIONS:

Honeywell P.N.	BEI Model	Shaft	Paint
34201505-001	122-9012-VMSII	Square	Green
34201505-002	122-9012-VMSII-R	Round	Green
34201505-003	122-9012-VMSII-1	Square	Gray
34201505-004	122-9012-VMSII-R-1	Round	Gray

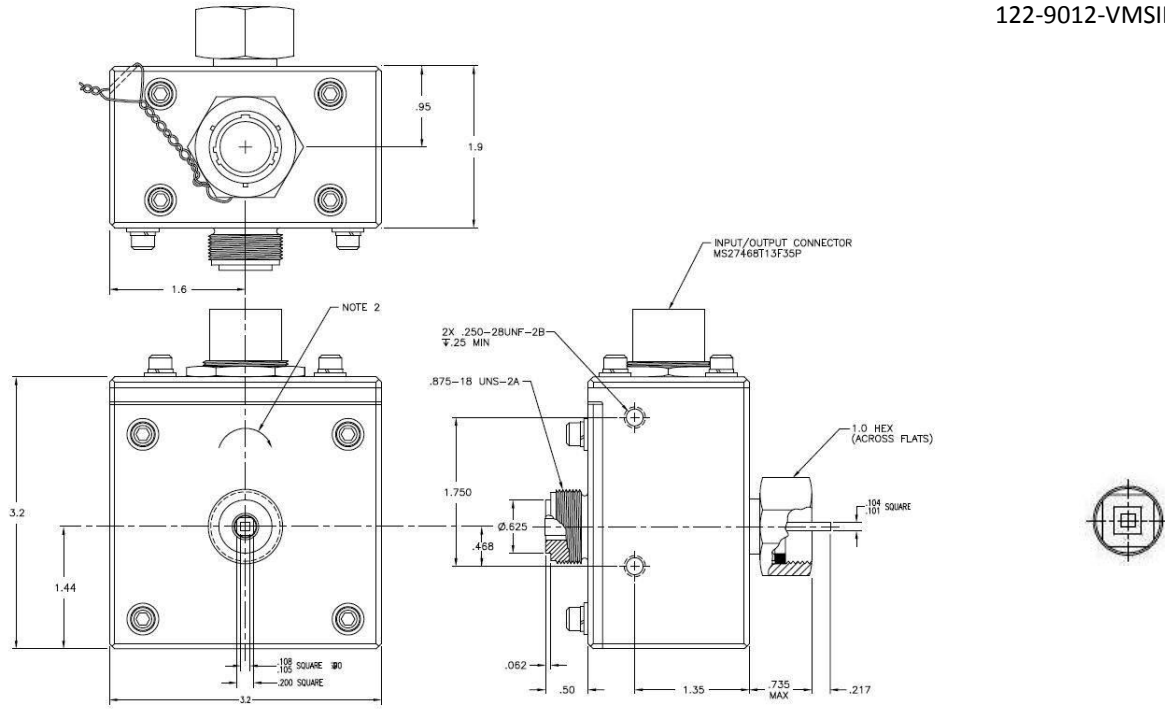
SYSTEM SPECIFICATIONS*:

Size	8.2 cm x 8.2 cm x 5.1 cm (3.5 in x 3.5 in x 2 in)
Weight	< 1.4 kg (3 lb.)
Power	+ 5 VDC ± 5% at 2.5 watts
Input Speed	0 - 1400 RPM, forward or reverse
Operating Temperature	-46°C to +93°C
Reliability	> 20,000 hr MTBF
Scale Factor	32 pulses per shaft revolution

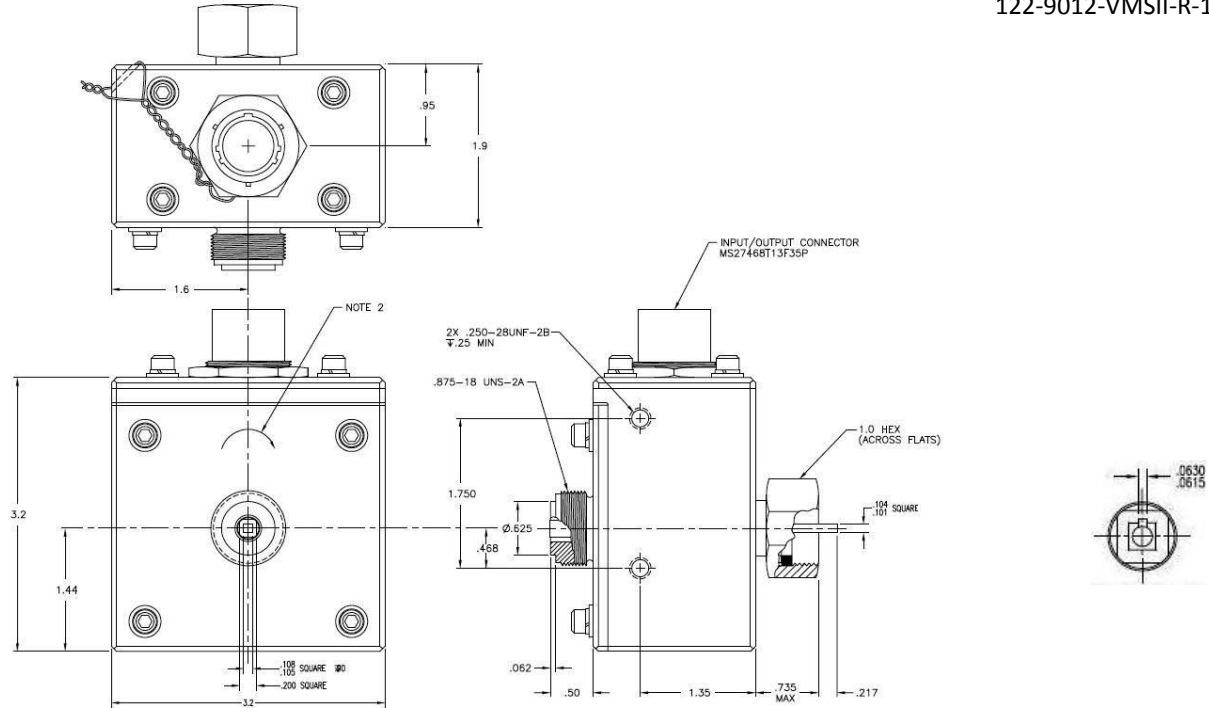
* Specifications per MIL-PRF-71196

Approved for general release.

122-9012-VMSII Green
 122-9012-VMSII-1 Gray



122-9012-VMSII-R Green
 122-9012-VMSII-R-1 Gray



Specifications Subject to Change Without Notice