

INCH-POUND

MS24378G
10 July 2015
SUPERSEDING
MS24378F
30 November 1966

DETAIL SPECIFICATION SHEET

TRANSMITTER, SYNCHRO, ANGLE OF ATTACK OR SIDESLIP

Inactive for new design after 30 November 1966.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-T-25627.

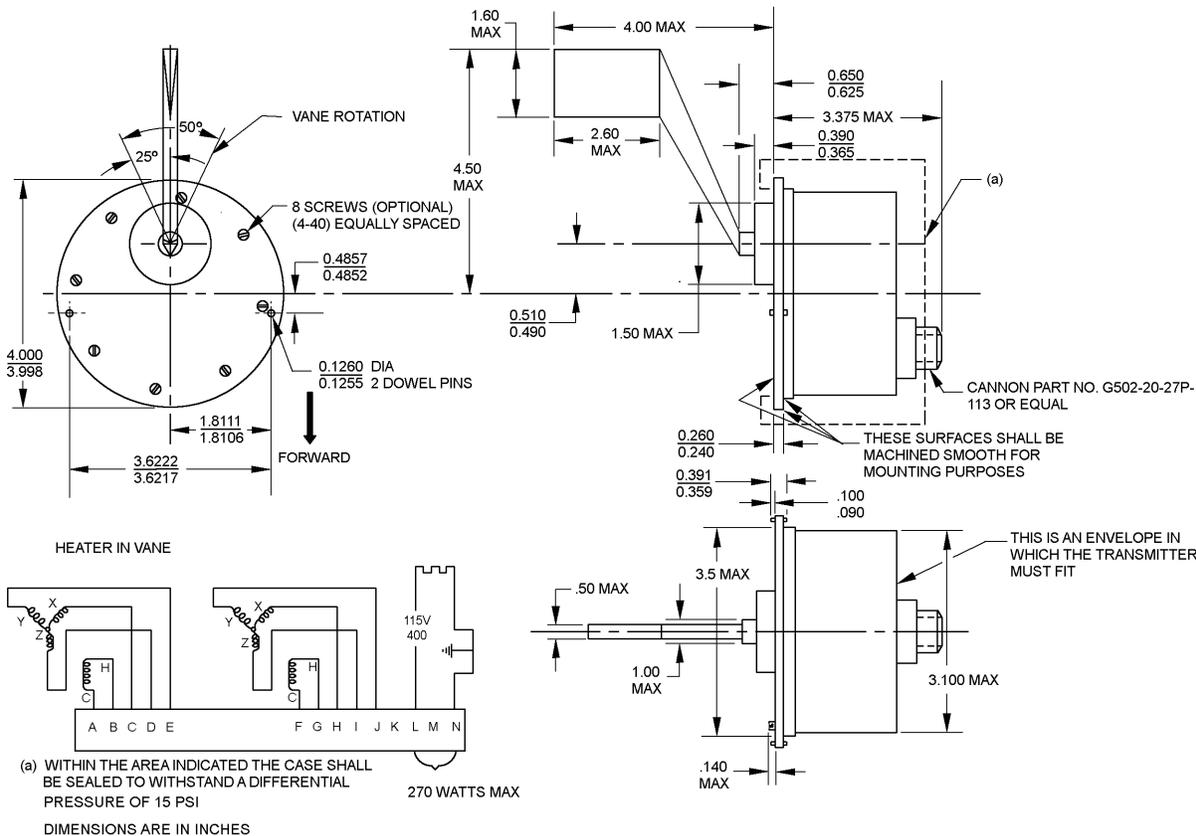


FIGURE 1. Type 1 angle of attack sensor.



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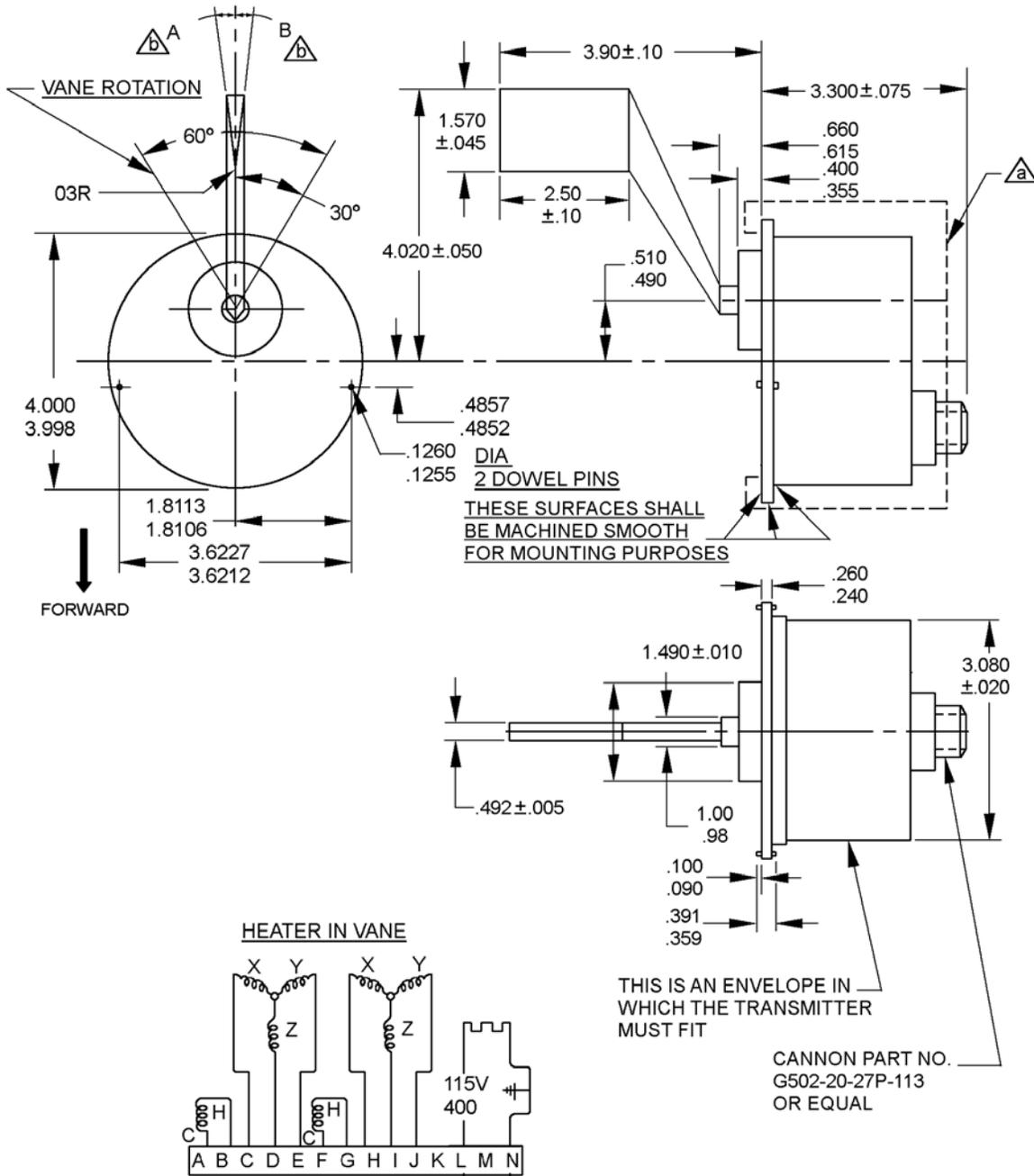
FIGURE 1. Type 1 angle of attack sensor. – Continued.

| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|-------|--------|--------|--------|--------|--------|--------|
| .090 | 2.29 | .365 | 9.27 | .650 | 16.51 | 3.5 | 89 |
| .100 | 2.54 | .390 | 9.91 | 1.00 | 25.4 | 3.6217 | 91.991 |
| .1255 | 3.188 | .391 | 9.93 | 1.50 | 38.1 | 3.6222 | 92.004 |
| .1260 | 3.200 | .4852 | 12.324 | 1.60 | 40.6 | 3.998 | 101.55 |
| .140 | 3.56 | .490 | 12.45 | 1.8106 | 45.989 | 4.000 | 101.60 |
| .240 | 6.10 | .50 | 12.7 | 1.8111 | 46.002 | 4.00 | 101.6 |
| .260 | 6.60 | .510 | 12.95 | 2.60 | 66.0 | 4.50 | 114.3 |
| .359 | 9.12 | .625 | 15.88 | 3.100 | 78.74 | | |

Notes:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

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- △ A & B EQUAL WITHIN 0°6'
- △ WITHIN THE AREA INDICATED THE CASE SHALL BE SEALED TO WITHSTAND A DIFFERENTIAL PRESSURE OF 15 PSI

DIMENSIONS ARE IN INCHES

FIGURE 2. Type 2 angle of attack sensor.

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FIGURE 1. Type 2 angle of attack sensor. – Continued.

| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|--------|--------|--------|--------|--------|
| .005 | 0.13 | .1255 | 3.188 | .490 | 12.45 | 1.8113 | 46.007 |
| .010 | 0.25 | .1260 | 3.200 | .492 | 12.50 | 2.50 | 63.5 |
| .020 | 0.51 | .240 | 6.10 | .510 | 12.95 | 3.080 | 78.23 |
| .045 | 1.14 | .260 | 6.60 | .615 | 15.62 | 3.300 | 83.82 |
| .050 | 1.27 | .355 | 9.02 | .660 | 16.76 | 3.6212 | 91.978 |
| .075 | 1.91 | .359 | 9.12 | .98 | 24.9 | 3.6227 | 92.017 |
| .090 | 2.29 | .391 | 9.93 | 1.00 | 25.4 | 3.90 | 99.1 |
| .10 | 2.5 | .400 | 10.16 | 1.490 | 37.85 | 3.998 | 101.55 |
| .10 | 2.5 | .4852 | 12.324 | 1.570 | 39.88 | 4.000 | 101.60 |
| .100 | 2.54 | .4857 | 12.337 | 1.8106 | 45.989 | 4.020 | 102.11 |

Notes:

1. Metric equivalents are given for information only.

REQUIREMENTS:

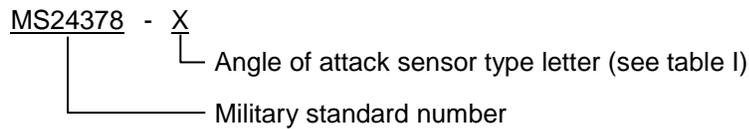
Design and dimensions are given on figure 1 and 2.

Angle of Attack Sensor Type: The angle of attack sensor type is given in table I.

TABLE I. Angle of attack sensor type.

| Type | Description |
|------|----------------------------|
| 1 | ± 25° vane rotation sensor |
| 2 | ± 30° vane rotation sensor |

Part or Identifying Number (PIN): The MS part number consists of the MS number with a dash after it and the angle of attack sensor type letter as follows:



Referenced documents shall be of the issue in effect on date of invitations for bids or request for proposal.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Reference documents. This document references MIL-T-25627.

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CONCLUDING MATERIAL

Custodians:

Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5990-2015-003)

Review activities:

Air Force – 71, 99
DLA - GS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.