## 10716 MODEL UV-J AND UV-J-1-TCx, "x" DENOTES TEMP. COMP. RANGE C.O.N 1.0 GENERAL DESCRIPTION: UV-J IS A ROTARY POSITION SENSOR DESIGNED FOR COST EFFECTIVE FEEDBACK SENSING ELEMENT FOR SERVO SYSTEM WHERE HIGH PERFORMANCE AND RELIABILITY ARE REQUIRED IN SEVERE OPERATING ENVIRONMENTS. 2.0 ENVIRONMENTAL SPECIFICATIONS: **GUEMISA** Sta. Virgilia 3-b; 1°F 28033 Madrid Tfno.: 91 764 21 00 Fax.: 91 764 21 32 2.1 OPERATING TEMPERATURE: -40°C TO +125°C Email: info@guemisa.com 2.2 STORAGE TEMPERATURE: -40°C TO +125°C 2.3 SHOCK: 50 G's. 11 mS. 2.4 VIBRATION: 20 G's. 10 to 2.000 Hz. 3.0 ELECTRICAL SPECIFICATIONS: (UNLESS OTHERWISE SPECIFIED, Ta=25°C) Ta = -40°C TO +125°C 3.1 INPUT VOLTAGE (Vin): 10 Vdc MAX. 3.2 INPUT IMPEDANCE: 15 kOHMS +30 <sup>(A)</sup> ±40° (F.S.=90°) 3.3 ELECTRICAL ANGLE: $Ta = -40^{\circ}C TO + 125^{\circ}C$ Ta = -40°C TO +125°C ±1.5% F.S. 3.4 INDEPENDENT LINEARITY: 3.5 OUTPUT SENSITIVITY: 2.5%Vin/10° MIN. 3.6 INSULATION RESISTANCE: 100 Meg OHMS MIN. @ 500 Vdc. 500 Vrms @ 50/60 Hz. 3.7 DIELECTRIC STRENGTH: 3.8 TEMPERATURE EFFECT (DEVIATION IS EXPRESSED IN EQUIVALENT ANGLE): REFER TO FIGURE 4 FOR CLARIFICATION. 9.0 ±0.5→ 3.8.1 FOR MODEL UV-J (STANDARD UNIT W/O TEMP, COMPENSATION CIRCUIT) $Ta = 0^{\circ}C \text{ to } +75^{\circ}C$ AT 0° POSITION: 1.5° MAX. AT ±40° POSITION: 6.7° MAX. 3.8.2 FOR MODEL UV-J-1-TCx (UNIT WITH TEMP. COMPENSATION CIRCUIT ) -TCA -TCB -TCC (-20°C to +80°C) (-30°C to +100°C) (0°C to +60°C) AT 0° POSITION: 0.3° MAX. 0.5° MAX. 0.7° MAX. <sup>®</sup> AT ±40° POSITION: 3.1° MAX. 4.9° MAX. 6.7° MAX. 63 4.0 MECHANICAL SPECIFICATIONS: 4.1 MECHANICAL ANGLE: 50 20 g-cm MAX. 4.2 TORQUE: 4.3 WEIGHT: 20 g MAX. 5.0 FLECTRICAL CONNECTIONS: REFER TO FIGURES 1 AND 2. 6.0 MARKING: EACH UNIT SHALL BE MARKED WITH MIDORI MODEL NO. AND MANUFACUTURING LOT NO. ( OR DATE CODE ) OR SERIAL NO. 7.0 MATERIAL:

POLYPHENYLENE SULFIED. GLASS

®AVX-0.5f (NO.18AWG, 20 STRANDED,

CONDUCTORS, VINYL SLEEVE )

ENFORCED.

NICKEL PLATED

UNLESS OTHERWISE

±1.5°

±0.25

+0.5

±1

ARE IN mm(in).

ANGLES

<10 mm:

<100 mm

>100 mm:

TOLERANCES:

7.1 HOUSING and ROTOR:

7.3 INSULATED WIRE:

7.2 MOUNTING HOLF INSERT:

