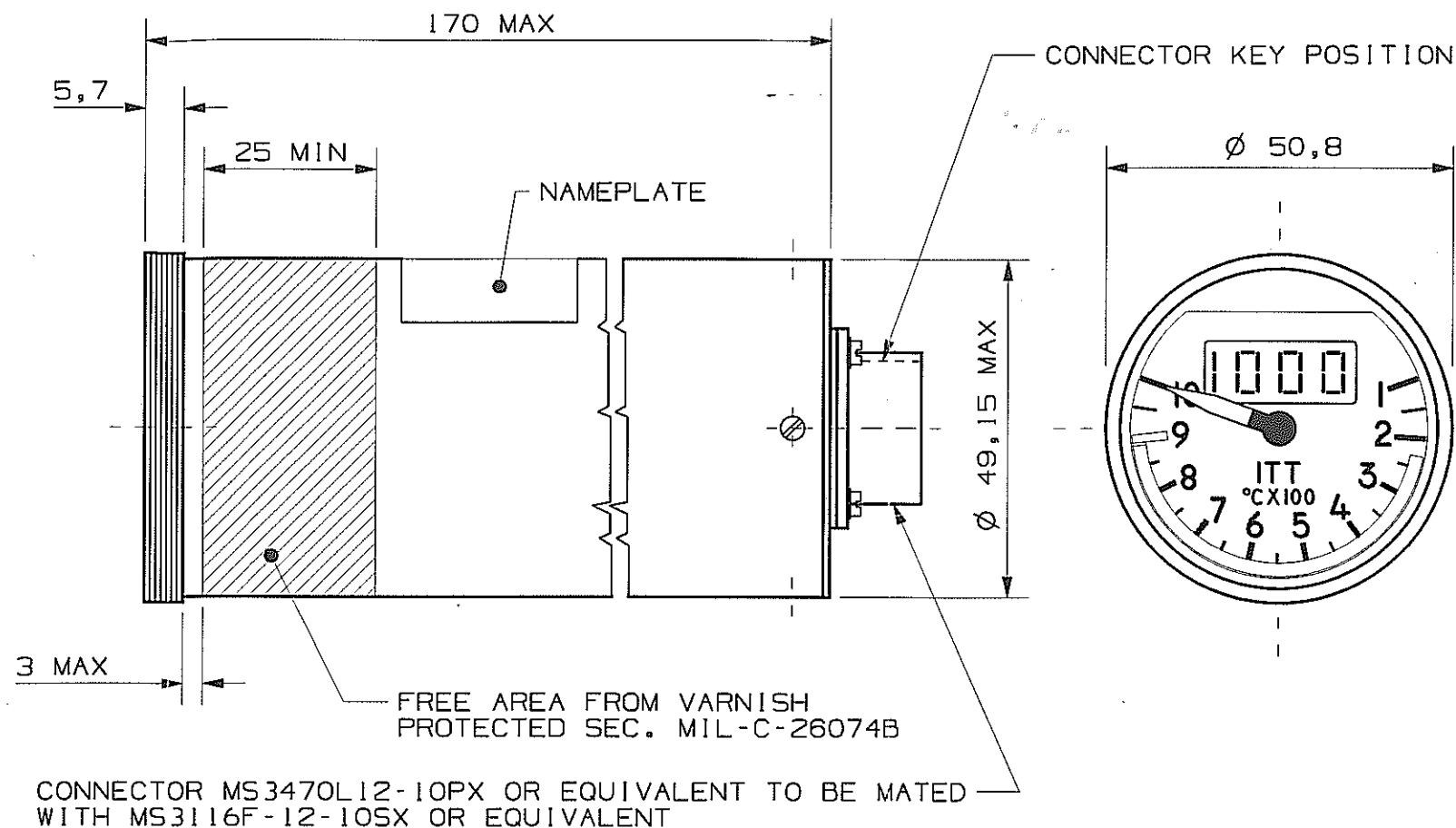


### TECHNICAL REQUIREMENTS

- |                               |  |
|-------------------------------|--|
| 1) TYPE                       | : SERVO OPERATING AND 4 DIGIT INCANDESCENT DISPLAY   |
| 2) RANGE                      | : FROM 100 TO 1000°C, SCALE 210 DEGREES.   |
| 3) ACCURACY (% F.S.)          | : ANALOGUE: ± 1% (± 0,8 AT AMBIENT TEMPERATURE)<br>: DIGITAL: ± 0.5% (± 0,3% AT AMBIENT TEMPERATURE)   |
| 4) INPUT IMPEDANCE            | : 60 KOHMS MINIMUM.  |
| 5) SIGNAL SOURCE              | : THERMOCOUPLE CHROMEL-ALUMEL  |
| 6) CALIBRATION                | : 100°C=4.10mVdc; 200°C=8.13mVdc; 400°C=16.4mVdc;<br>: 600°C=24.91mVdc; 800°C=33.3mVdc; 1000°C=41.31mVdc;  |
| 7) POWER SUPPLY               | : 28 VDC (FROM 12 TO 32 VDC), 6W MAX.  |
| 8) POSITION ERROR             | : /  |
| 9) FRICTION ERROR             | : /  |
| 10) LIGHTING                  | : WHITE PER MIL-L-27160; POWER SUPPLY 5VDC - 2W MAX.   |
| 11) CASE                      | : 2" ROUND CASE PER MS33639. PAINTED, DULL BLACK<br>: COLOR N° 37038 PER FED-STD-595A.   |
| 12) SEALING                   | : ENVIRONMENTAL SEALING ("O"RING).   |
| 13) DIAL                      | : COLOR PER FED-STD-595A EXCEPT AS NOTED<br>: BACKGROUND: BLACK N° 37038.<br>: MARKING: WHITE N.37875.<br>: CHARACTERS: FUTURA MEDIUM TYPE<br>: NUMERALS: HEIGHT 3.8 mm<br>: ITT: HEIGHT 3.2 mm<br>: °CX100: HEIGHT 2,4 mm<br>: MARKINGS: MAJOR= 4.6 X 0.8 mm<br>: MINOR= 3,5 X 0.4 mm<br>: RED RADIAL= 5.3 X 1.3 mm<br>: ARCS= 2.1 WIDE<br>: RANGE MARKINGS:<br>: -GREEN ARC FROM 230 TO 885°C, COLOR NAZDAR No 5592<br>: -YELLOW ARC FROM 885 TO 890°C, COLOR N° 33538 FED-STD 595<br>: -RED RADIAL AT 890°C, COLOR NAZDAR No 5595 |
| 14) VISIBILITY ANGLE          | : 20 DEGREES MINIMUM.  |
| 15) POINTER                   | : WHITE, COLOR No 37875 PER FED-STD-595A.  |
| 16) NAMEPLATE                 | : MINIMUM INFORMATION ARE:<br>: NOMENCLATURE, MANUFACTURER P/N, SERIAL NUMBER,<br>: MFG DATE, MANUFACTURER NAME AND CODE.  |
| 17) GLASS                     | : ANTIREFLECTIVE PER MIL-C-14806.  |
| 18) OPER. TEMP. RANGE         | : FROM -30°C TO +70°C  |
| 19) STORAGE TEMPERATURE       | : FROM -55°C TO +85°C  |
| 20) WEIGHT                    | : 0,50 KG MAX  |
| 21) GENERAL REQUIREMENTS      | : - INSULATION RESISTANCE, 20 MOHM MIN AT 250 VDC<br>: POWER OFF: POINTER BELOW MINIMUM MARK.  |
| 22) ENVIRONMENTAL CONDITIONS: | ACCORDING TO DO 160B CATEGORIES: TEMPERATURE DI;<br>: TEMPERATURE VARIATION -B; HUMIDITY -A; VIBRATION -J;<br>: SHOCK - OPERATIONAL; MAGNETIC EFFECT -Z; POWER INPUT -Z;<br>: VOLTAGE SPIKE -A; AUDIO FREQUENCY CONDUCTED -Z; EMC -Z.  |
| 23) DIGITAL DISPLAY           | : UP-DATE TIME 1.1 SECOND FOR Σ (ERROR) >1,2 RPM, ELSEWHERE 5 SECONDS<br>: - SEVEN SEGMENTS CHARACTER TYPE - DIGIT HEIGHT 5.7 mm<br>: - COLOR: BLU-WHITE<br>: - BRIGHTNESS COORDINATE WITH DIAL LIGHTING VOLTAGE DISPLAY IS FULL BRIGHT AT 0 TO 1.15 ±0.1 VDC, INCREASE FROM MINIMUM BRIGHTNESS AT 1.15 ±0.1 VDC TO HALF BRIGHT AT 5 VDC   |
| 24) MTBF                      | : 15000 HOURS MINIMUM  |



CONNECTOR MS3470L12-10PX OR EQUIVALENT TO BE MATED WITH MS3116F-12-10SX OR EQUIVALENT

### CONNECTOR PINS

- |   |                 |
|---|-----------------|
| A | —               |
| B | — 28 VDC HI     |
| C | — 28 VDC LO     |
| D | — LIGHTING HI   |
| E | — LIGHTING LO   |
| F | — CHROMEL INPUT |
| G | — ALUMEL INPUT  |
| H | —               |
| J | —               |
| K | — CASE GROUND   |

DIMENSIONS ARE IN mm

DISEGN. RIGGIO	QUESTO DISEGNO/SPECIFICA RILASCIATO DALLA FAREM S.R.L. E' STRETTAMENTE CONFIDENZIALE, NON PUO' ESSERE RIPRODOTTO O DIVULGATO IN ALCUN MODO SENZA L'AUTORIZZAZIONE SCRITTA DELLA DITTA.				
CONTROLL. <i>Buter</i>	TOLLERANZA SULLE MISURE ± 0,1 - SUGLI ANGOLI 1/2 GRADO - SEGNI DI LAVORAZIONE <i>ZZZ</i> DOVE NON INDICATO DIVERSAMENTE.				
DATA 10.05.02	MATERIALE /				
SCALA 1:1	FINITURA /	2	10.05.02	5121	<i>[Signature]</i>
		1	28.08.01	5078	<i>[Signature]</i>
		0	29.06.01	---	---
O.TA' /	<b>FAREM S.R.L.</b>				
PESO /	DENOMINAZIONE TEMPERATURE INDICATOR (ITT)	N°	DATA	MODIF.	DIS. CONTR.
		DISEGNO N° 08DM15 TYP 1862			
		ORIGINE			