

MKF-TFS01

Mate Force Sensor Module



DESCRIPTION

MKF-TFS01 force sensor, panel mounted embedded, the main material of the shell is aviation aluminum alloy, built-in high dynamic force sensing device, its resistance value change output is affected by external force. National military standard design, strong experimental, linear correction in the whole temperature range. It is suitable for weapon fire control systems, armored vehicles, aircraft, command and control, tracking control, remote control, visual display, high-end medical equipment, etc.

SPECIFICATION

Material	stainless steel + aluminum alloy + high beryllium copper
Welding type	Soldering
Operating Force	0-15N, allowable limit operating force: 120N
Panel opening size	Ø26, Ø19
Input voltage	+5VDC
Zero error	2.5±0.075 VDC
Full scale output (F.S.)	Maximum (3±0.2) VDC; Minimum (2±0.2) VDC;
Temperature sensitivity coefficient	±0.4%F.S./°C
Temperature sensitivity coefficient	±0.06%F.S./°C per degree Celsius
Zero hysteresis	Within 2 seconds after the external force is completely released, the maximum value is ±0.02Vdc, and the sum of the temperature sensitivity coefficient voltage drift does not exceed plus or minus 0.05VDC
Resolution	continuous output, no dead zone
Linearity	>±2% (full scale)
Coupling	<8%
Operating temperature range	-40°C to +70°C
Storage temperature range	-55°C to +85°C
Insulation resistance	>100MΩ (under 50V)
Dielectric withstand voltage	50V, <1.0mA
Shock	+30g 11ms half-righteous
Vibration	Peak value 10g, 55~2000HZ
MTBF	100,000 hours

TECHNICAL DRAWINGS

