

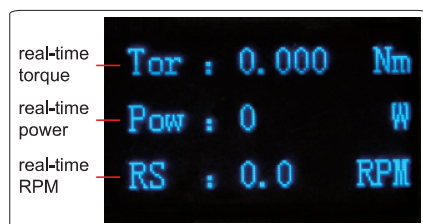
DYNAMIC TORQUE SENSORS

CUSTOMIZABLE TORQUE SIGNAL OUTPUT:
4~20mA OR 0~10V

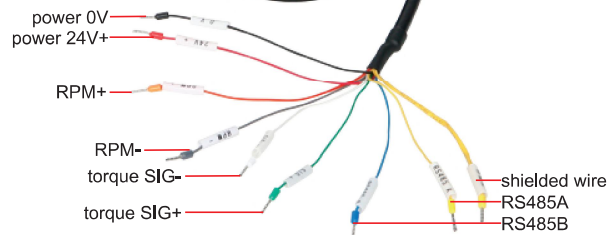
ATTENTION: CUSTOMIZATION IS REQUIRED
FOR RPM EXCEEDING THE RATED RPM

- Non-contact digital signal transmission guarantee wear-free and maintenance-free operation
- Real-time display of torque, RPM and power values
- Support RS485 communication, support active uploading protocols
- Communication rate up to 1000 Hz
- Torque signal is $\pm 5V$ transformed voltage output
- OLED display, resolution 128*64
- Simple calibration, zeroing, filtering, etc. can be performed

INSIZE
CERTIFICATE



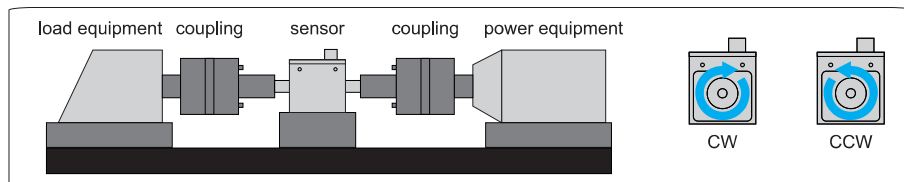
screen display



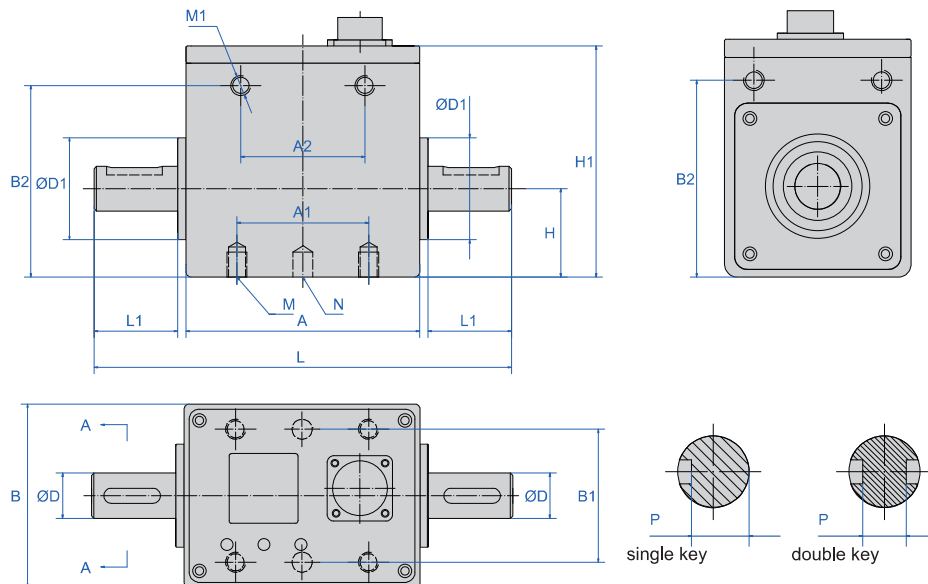
IST-TA10

SPECIFICATION

RPM signal	120/60/10 pulses/rev.
Zero output	$\pm 0.5\%$ F.S.
Overall accuracy	$\pm 0.2\%$ F.S.
Linearity	0.1%F.S.
Hysteresis	0.1%F.S.
Repeatability	0.1%F.S.
Creep (30 minutes)	0.1%F.S.
Temperature sensitivity drift	0.1%F.S./18°F
Zero temperature drift	0.1%F.S./18°F
Response time	0.6ms (50% response)
Response frequency	2kHz
Max. torsion angle	$2.6 \times 10 \text{ rad}$ (0.149°)
Inertial torque	0.33in.lb
Intrinsic frequency of rotor vibration	19.4kHz
Torque constant	$2.84 \times 10 \text{ ft.lb/rad}$
Material	Stainless steel
Annual stability	0.3%/year
load resistance	$> 2 \text{ k}\Omega$
Power supply	DC24V 0.2A
Working environment	14~122°F $\leq 85\%$ RH
Safety overload	150%
Extreme overload	200%
Cable specification	.197"DIA×118"
Extreme cable pulling force	22lb



example of sensor usage



dimension drawing

