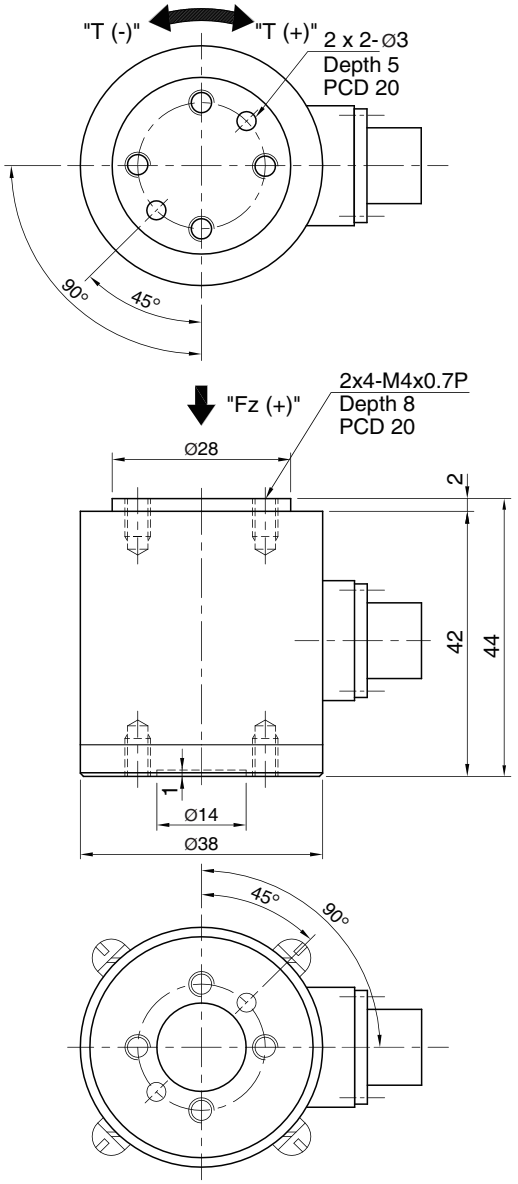
Model M2TB Series

Joint Torque Sensor
5N-m ~ 100N-m

- Two-direction force structure
- One direction force and torque structure
- Aluminum alloy element



SPECIFICATIONS

MODEL	M2TB	
Axis	Fz	Mz
Rated capacity (R.C.)	100, 200, 500kg	5, 10, 50, 100N-m
Rated output(R.O. Nominal)	1.0mV/V	1.5mV/V
Non-linearity	≤1% R.O.	
Hysteresis	≤1% R.O.	
Non-repeatability	≤0.5% R.O.	
Cross talk	≤5% R.O.	
Compensated temperature range	-10 ~ 70°C	
Operating temperature range	-20 ~ 80°C	
Temp. effect on rated output	≤0.1% LOAD/10°C	
Temp. effect on zero balance	≤0.05% R.O./10°C	
Terminal input resistance	420 Ohms ± 50 Ohms	
Terminal output resistance	350 Ohms ± 5 Ohms	
Insulation resistance (Min.)	2000 MOhms at 50V DC	
Excitation voltage	3~12V(Recommended), 15V(Max.)	
Electrial connection	8Pin Connector	
Safe overload	150% R.C	
Ultimate overload	300% R.C	
Material	Aluminum alloy	

Tajimi Connector : PRC05-RB8M(8Pins)
: PRC05-P8F(8Pins)

ORDERING INFORMATION

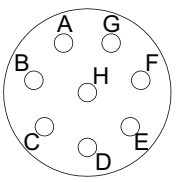
M2TB - **200 - 50**

- M2TB → MODEL
- 200 - 50 → CAPACITY
  - 100kg - 5, 10 N-m
  - 200kg - 50 N-m
  - 500kg - 100 N-m

WIRING INFORMATION

Fz
- PIN A : EXC +
- PIN B : EXC -
- PIN C : SIG +
- PIN D : SIG -

Mz
- PIN E : EXC +
- PIN F : EXC -
- PIN G : SIG +
- PIN H : SIG -



⋆ Specifications are subject to change without notice

DEC, 2025

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