THANK YOU FOR CHOOSING ROBOTIO

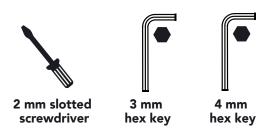
This step-by-step guide will allow you to **install** your **FT 300-S Force Torque Sensor** on **Techman Robot.**



1.WHAT IS SUPPLIED?

Standard Techman Robot Kit (FTS-300-S-TM-KIT)	
FT 300-S Force Torque Sensor	FTS-300-S-SEN-001
Mechanical Coupling	FTS-300-S-CPL-014
Device cable	CBL-COM-2073-10-HF
USB to RS485 Adapter	ACC-ADT-USB-RS485
RS232 to RS485 Adapter	ACC-ADT-RS232-RS485
Required hardware	

2.TOOLS NEEDED



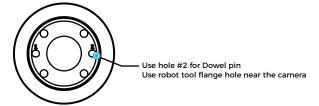


3.MOUNTING



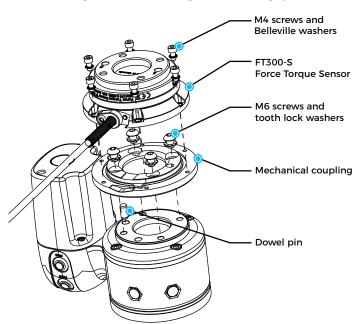
For easier mounting, move the robot tool flange to make it point upwards.

- 1. **Place** the provided dowel pin in the robot tool flange hole that is near the camera.
- 2. **Mount** the mechanical coupling on your robot arm. Align marked hole #2 with the dowel pin.



Bottom view - Mechanical coupling

- 3. **Secure** by inserting the M6 screws and tooth lock washers
- 4. **Mount** the Force Torque Sensor on the mechanical coupling.
- Secure by inserting the M4 screws and the Belleville washers (with the convex side upward) in a cross pattern to properly compress the O-ring.
- 6. **Plug** the device cable into the sensor's pigtail and attach the cable along the robot arm using a cable routing system.







The Force Torque Sensor must be aligned with the robot arm using the dowel pin. This ensures that the feature will work correctly.



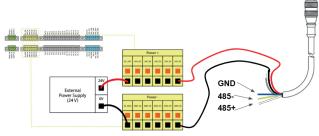
The IP Rating of the FT 300-S Force Torque Sensor is **IP65**. Its is strongly recommended to cover the sensor and the robot when it is used with an application that requires a higher rating.



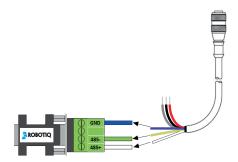
4.WIRING

The red (24V) and black (0V) wire of the device cable (CBL-COM-2073-10-HF) provide power to the sensor.

- 1. **Connect** the red wire to a 24V pin.
- 2. Connect the black wire to a 0V pin.



3. **Connect** the white (1), green (2) and blue (3) wires to the RS232-RS485 adapter (ACC-ADT-RS232-RS485) as shown. **Do not connect** the gray wire.



4. Connect the RS232-RS485 adapter to the TM controller.



BEFORE OPERATING THE FORCE SENSOR, PLEASE READ INSTRUCTION MANUAL.



FT 300-S FORCE TORQUE SENSOR

QUICK START GUIDE

For installation on Techman Robot





New product has a one (1) year warranty. Refer to your product instruction manual for details.

robotiq.com/support

