

## FORCE TORQUE SENSOR DESIGNED FOR **UNIVERSAL ROBOTS**

**GIVE YOUR ROBOT THE SENSE OF TOUCH**



### AUTOMATE FORCE SENSITIVE TASKS

Reliably perform:

- Precision part insertion
- Assembly and fabrication
- Automated product testing

### MADE FOR UNIVERSAL ROBOTS

Everything you'll need for  
a quick installation from  
hardware to software

### RELIABLE AND STABLE

FT 300 digital signal  
is not affected by noise



**UR3**

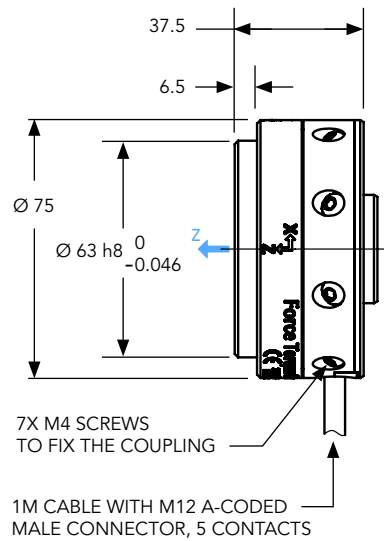
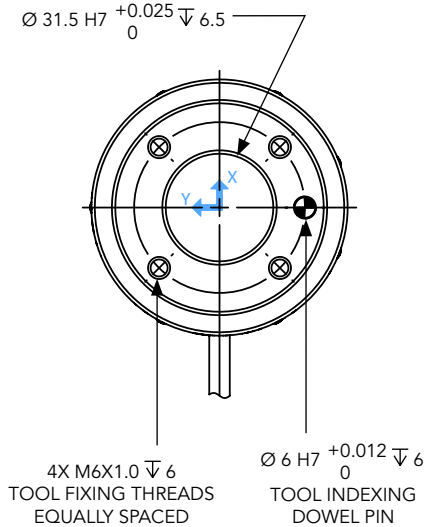


**UR5**

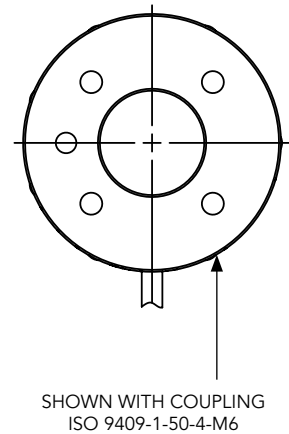
# TECHNICAL DATA

## FT 300

### TOOL SIDE



### ROBOT SIDE (MAY VARY ACCORDING TO YOUR OPTION)



UNITS: mm

## SIGNAL SPECIFICATIONS

Measuring range	Fx, Fy, Fz	±300 N	
	Mx, My, Mz	±30 N·m	
Signal noise	Fx, Fy	1.2 N	Noise is defined here as the standard deviation of each data for 1 second for a typical steady signal.
	Fz	0.5 N	
	Mx, My	0.02 N·m	
	Mz	0.03 N·m	
External noise sensitivity	All axes	Immune	Under normal operating conditions.
Data output rate		100 Hz	
Temperature compensation		15°C - 35°C	Temperature fluctuation is compensated for within this range. Signal quality may be affected outside of this range.

## MECHANICAL SPECIFICATIONS

Outside diameter	75 mm	
Thickness	37.5 mm	With Coupling ISO 9409-1-50-4-M6
Weight	300 g	With Coupling ISO 9409-1-50-4-M6
Overload capacity	500 %	Exceeding the overload capacity will permanently damage the sensor.

## ELECTRICAL SPECIFICATIONS

Nominal supply voltage	4.5-28 V DC	
Maximum power consumption	2 W	
Sensor electrical interface	RS-485, USB	Software packages available for Universal Robots, ROS, Linux and Windows.