

# DATASHEET

Tactile Sensor TS-R-250

## KEY FEATURES

The rubberlike structure of the TS-R-250 allows it to be attached to any surface regardless of the shape (straight, curved, irregular). The softness of the sensor makes it ideal for getting in contact with any object that needs to be gripped and where the contact force needs to be measured. Understanding the gripping force makes the process faster and more reliable, preventing the damage of fragile parts. It comes with a versatile electronic offering an analog output as well as digital communication and IOs.

- ◆ Flexible rubberlike sensor which can be mounted to surfaces of any shape
- ◆ Its compliance allows even to mount it onto joints and hinges of a gripper/Inherent compliance of sensor
- ◆ The softness of the sensor protects fragile objects
- ◆ Smart electronic with digital IOs
- ◆ Ideal for price-sensitive applications
- ◆ Ultra-low weight



## APPLICATIONS

Pick & place

Gripping & Clamping

Soft robotics and soft grippers

Robotics in general

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## TECHNICAL SPECIFICATIONS

Dimensions	32 mm	Sensor dimensions only
Weight	20 g	including Sensor and electronic
Range	0...250 kPa*	Maximum pressure to be applied
Overload	>600 kPa	Maximum compression force w/o damage
Digital communication	UART	Others on request
Digital IOs	up to 8	Upon definition
Analog output	0...10V or 4...20mA	Proportional to sensor signal
Sampling frequency	≤2 kHz	Maximum refreshing rate of analog output
Operating temperature	-55 to 80°C	Higher without electronic
Supply voltage	5V, 12V, 24V or 9...36V	5V reduces analog output to 0...5V

\* other ranges on request

## MECHANICAL DIMENSIONS

Sensor thickness between 1,25 and 9 mm available, others on request

Sensor diameter between 32 and 46 mm available, others on request

Tail length (66 mm in drawing) between 10 and 90 mm

