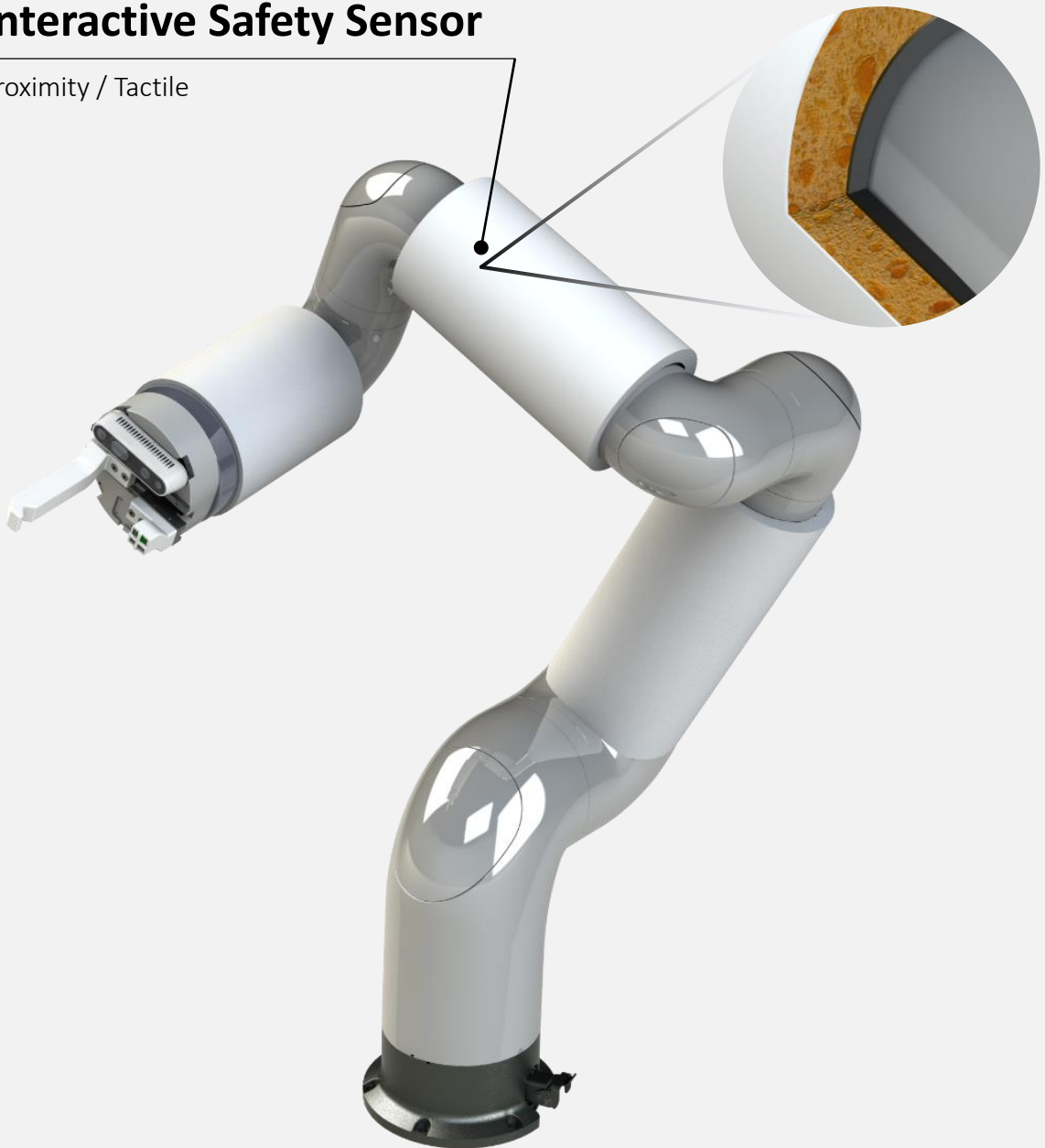


AIDIN ROBOTICS

Interactive Safety Sensor

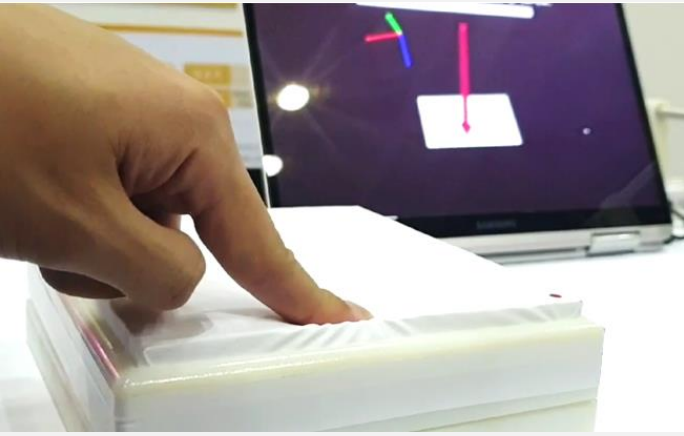
Proximity / Tactile



AIDIN
ROBOTICS



AIDIN
ROBOTICS



WHAT IS APTS SENSOR?

APTS sensor is a Proximity/Tactile sensitive safety skin for any-type of robotics. It can directly cover the robot's surface for safety stop before the collision.

APTS sensor allows the redefinition of robot safety.

FEATURE OF APTS SENSOR



HUMAN SENSING



METAL SENSING



PLASTIC SENSING



AVOIDANCE

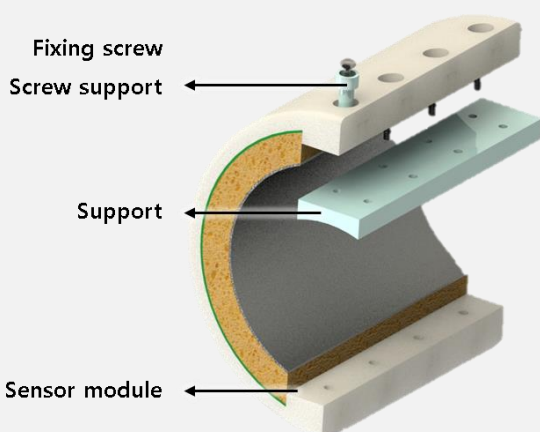


SAFETY DEVICE
FOR ROBOT



DIRECT TEACHING

HOW IT WORKS?



APTS sensor can detect the distance from human, metal, plastic, and reliably detect internal pressure. APTS supplies before the collision and after collision safety solution. APTS sensor continuously transmits the detecting distance. Also, APTS sensor can trigger an immediate safe stop signal for any collision.

APTS sensor contains 5-wire cable carrying two redundant safety channels.

TECHNICAL SPECIFICATIONS

Sensing response

< 1 ms

Weight of APTS sensor

One unit : < 830g (module for UR10)

Thickness on a robot

20 - 80 mm available (>30mm recommended)

Installation time

30 min

FEATURES

Detectable objects

Human, Metal, Plastic

Detection range

1mm to 200 mm

Ambient temperature range

5-40 °C

Humidity level

0 - 85 %

ELECTRICAL SPECIFICATIONS

Voltage supply

5V DC (ground bonding required)

Communication supplies

CAN

Operating current

10 mA, max. 35 mA

Connector

5 Wires: 2 communication wire, VCC, GND, E-GND)

Interactive
Safety Sensor



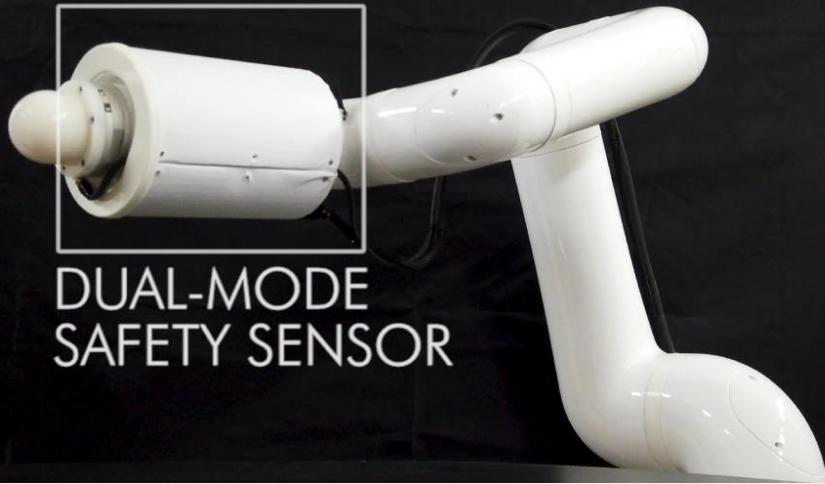
APPLICATION AREAS

Collaborative robot

Automated Guided Vehicle

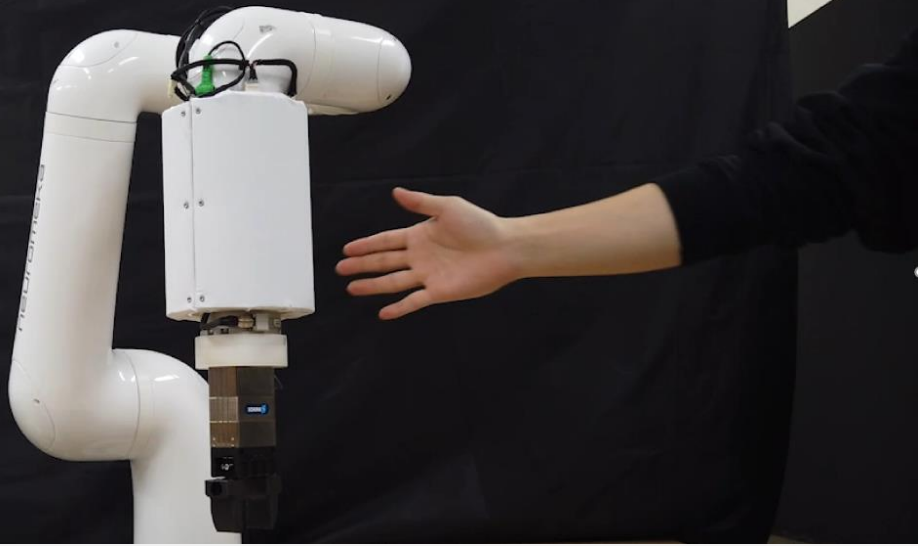
Mobile manipulator

End of Arm Tooling



DUAL-MODE
SAFETY SENSOR

PROXIMITY SENSING



TACTILE SENSING



AIDIN ROBOTICS

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