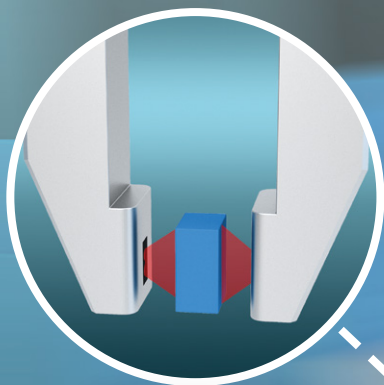
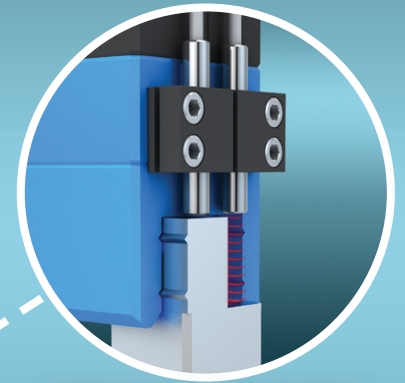


# ROBOT GRIPPERS

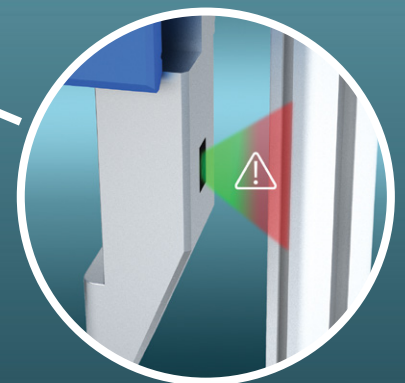
MINIATURE SENSORS – CUSTOMIZABLE AND READY TO INTEGRATE



POSITION AND  
DISTANCE CONTROL



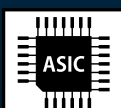
OPEN/CLOSED POSITION  
CONFIRMATION



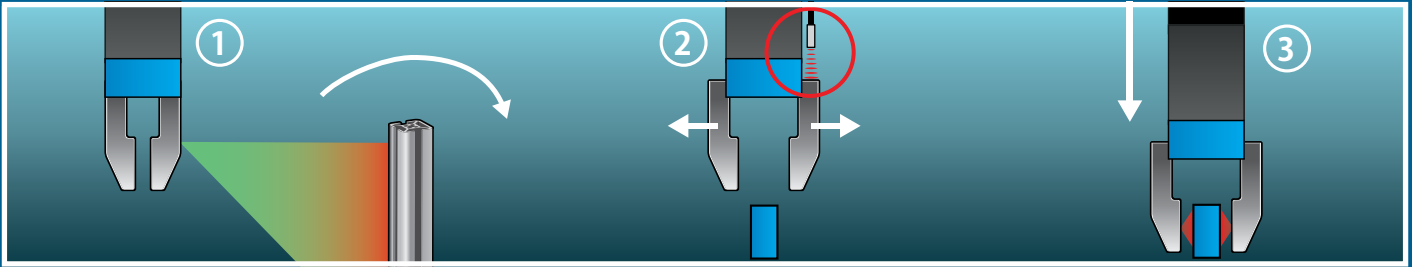
ALL-ROUND COLLISION  
PREVENTION

## EMBEDDABLE SENSORS FROM Ø3 MM

- ✓ Built-in collision-proofing for gripper systems
- ✓ Designed for customizing, IIoT-compatible
- ✓ Smallest, lightest sensors with IO-Link
- ✓ Precise, reliable and cost-effective



# ROBOTICS INDUSTRY



## MINIDIST PHOTOELECTRIC SENSORS

For applications requiring precise distance measurement, the MiniDist diffuse-type sensor perfectly combines performance and adaptability. With open electronics (15×5×5.5 mm) or with small housing (22×5.5×6 mm), it is ideal for customized integration.

### ① COLLISION PREVENTION

The analog output can be configured to indicate increasing proximity to a hazard and generate a stop signal. This gives added protection against collisions during machine setup and operation.

### ③ POSITION AND DISTANCE CONTROL

A distance-measurement signal ensures precise object approach and gripper control.

### KEY ADVANTAGES

- ✓ Distance measurement of metallic and non-metallic objects
- ✓ Advanced optical and ASIC technology
- ✓ Focused, visible red light source with light-spot diameter 5 mm at distance of 35 mm
- ✓ Sensing range up to 35 mm
- ✓ Analog output 0.1 ... 2.6 VDC, power supply 10-30 V
- ✓ Cable, or customer-specific direct connection



IO-Link

PART REFERENCE	ART. NO.	POLARITY	CONNECTION	OUTPUT (A1)	OUTPUT (A2)
DTR-N01PA-NMK-139	620-600-448	PNP	PUR, 2 m, 4-wire	PNP, light-on/IO-Link	0.1 ... 2.6 V
DTR-C02PA-NMK-139	620-600-469	PNP	PUR, 2 m, 4-wire	PNP, light-on/IO-Link	0.1 ... 2.6 V

## MINIATURE INDUCTIVE SENSORS

Ideal for presence or position sensing in limited spaces, Contrinex Miniature inductive sensors offer high performance in an embeddable housing just 3 mm wide, 12 mm long and weighing ≤ 25 g.

### ② OPEN/CLOSED POSITION CONFIRMATION

An operating distance of 1 mm ensures reliable sensing of moving gripper fingers.

### KEY ADVANTAGES

- ✓ Smallest available inductive sensors
- ✓ Outstanding temperature stability from -25°C (-13°F) to +70°C (+158°F)
- ✓ Switching frequency up to 8,000 Hz
- ✓ Electronics vacuum potted for optimum long-term reliability under high stress



IO-Link

PART REFERENCE	ART. NO.	POLARITY	CONNECTION	OUTPUT (A1)
DW-AD-623-03	320-920-170	PNP	PUR, 2 m, 3-wire	N.O./IO-Link

See our website for more sensing, safety, and identification solutions for the robotics industry.

INDUCTIVE SENSORS



PHOTOELECTRIC SENSORS



SAFETY SENSORS



RFID



Terms of delivery and right to change design reserved.

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