

# Micro Laser Distance Sensor HG-C series Application examples

#### Panasonic Industrial Devices SUNX Co., Ltd.

# **Button height inspection for electric circuit part**



# **Bulge detection of bonded metal parts**





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# Judging front or back of cover of electronic parts



# Side determination of electrical part with hole

#### Application



### Sticker detection on smart phone cover





# **Parallelism measurement of the shaft**





# **Detecting overwrap of IC chips**

#### Application

Other company's laser displacement sensor Under the sensor Other of the sensor Other of the sensor Other of the sensor	Securely detect overwrap of IC chips company's er
Application IC chip conveyor	Benefit 1 No need to place separated amplifier.
Issues	Less wiring, easy installation.
Customer wants to detect overwrap of	Benefit 2
60 μm IC chip. Laser displacement sensor is expensive.	Easy setup by 2-point teaching like regular sensor.
Product	Benefit 3
Micro laser distance sensor HG-C1030	Price is low compared to high end displacement sensor.

# **Detecting a seam of functional sheet**



# **Detection of protection sheet for glass substrate**



### **Distance measurement between robot and metal**

#### Application





# **Thickness measurement of urethane parts**



# **Thickness measurement of urethane parts**

Application		
Other company laser sensor	ny's CMOS HG-C1100	
There are several urethane parts. On the type is judged seeing the analog Urethane part The surface	Analog unit of a PLC arts is uneven.	
Application Automotive parts manufacturing	Benefit 1 Peak hold function can avoid iitters by uneven surface	
Issues		
The output is unstable due to uneven urethane surface. The sensor head is large.	Benefit 2 Amplifier build-in, ultra compact size.	
Product	Benefit 3	
Micro laser distance sensor HG-C1100	High linearity like a displacement sensor.	

### **Measurement of remaining wire material**

#### Application



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# **Indirect bore determination**

#### Application



# **Detection of cap for cosmetic container**





# **Detection of hot melt**



# Judging front or back of bottle caps



### **Detecting cookies**



### **Detecting spray can cap**



# Measurement of wood for house construction



