# A disruptive step in Gap & Flush measurement technology

**Gap & Flush** is a **key factor** of the assembly process in many industrial sectors both for aesthetic and functional purposes.

**G3F** comes as an ergonomic, smart and non-contact wireless laser line triangulation sensor for the operator performing assembly and quality control operations.

The unrivalled ergonomics and the smart features of G3F allow operators to reliably perform **in-line Gap & Flush quality control** while being fully integrated with the digital factory.

#### Application sectors:

- Automotive
- Household appliances
- Aeronautics
- Wood Furniture



# **G3F features**

#### Portable and ultra-ergonomic design

Small and lightweight, it can easily fit in your pocket

### Fast measurements

Less than 1 s for a single measurement

#### One laser, multiple surfaces

The 405 nm laser makes it possible to efficiently measure on different surfaces, including transparent and reflective materials

#### Eye safety

G3F ensures operator safety, conditionally switching on/off the laser beam

#### **AI Engine**

G3F runs patented AI algorithms for manual measurement uncertainty management

Gap & Flush assessment on multiconfiguration parts and geometries





Conditional switch on/off of laser source (operator eye safety)



Feedback to the operator with respect to measurement uncertainty



Target recognition for optimized image acquisition and processing

# **G3F specifications**

405 nm
20 mm @ 12 mm
0 to 12 mm
< 25 µm
< 20 µm
<1s
1" integrated display
45 x 45 x 120 mm
300 g
~ 8 h



## **About our Company**

**U-Sense.IT** is an innovative start-up, spinoff of the Polytechnic University of Marche, Italy, targeting the specific market of noncontact instrumentation for in-line quality control.

**Vision**: to provide SMART measurement systems to empower operators in the Digitally Connected World.

**U-Sense.IT** holds a unique position in the optoelectronic sensor market, being the first manufacturer to implement Artificial Intelligence on portable laser scanners targeted to gap and flush measurements and to bidirectionally connect operators to the digital factory network.

# Look for us

A dynamic, motivated and qualified team





**Contact us** 

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Portable, wireless and smart IIoT laser line triangulation sensor for Gap & Flush measurement



ERGONOMIC

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# U-Sense.IT

MEASUREMENT SYSTEMS FOR DIGITAL FACTORIES