Contactless Force Sensing – Enhanced Touch Experience

VISHAY

The DNA of tech.®

- ✓ **4 x Slave Addresses – With One I²C Signal**
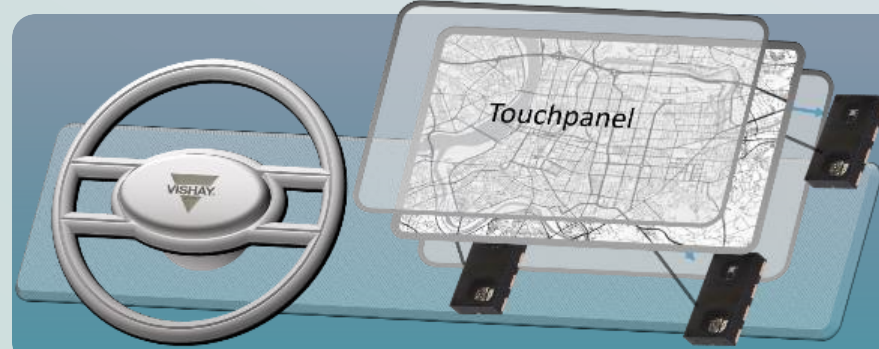- ✓ **Automotive-Grade Optical Force Sensing**
- ✓ **Sensor Algorithm Support**

VCNL4030X01

Infrared Emitter

ASIC

Photodiode

Touchpanel

📄 White Paper

📊 Infographic

❓ Did You Know?

Principle
Uses an emitter and a photodetector to measure force by detecting how mechanical displacement changes the intensity of the light reflection

Advantages
Contactless design offers high precision, no wear and tear, immunity to EMI, and ultrathin integration ideal for compact applications

Applications
Ideal for automotive hidden buttons, medical wearables, and premium consumer devices where sleek design and reliability are critical

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