



The DNA of tech.®

Automotive Grade Optical Sensors With Photodiode Output Enable High Speed, Wear-Free Optical Data Communication



ADVANTAGE

Offer rise and fall times down to 9 ns, data rates up to 6 Mbit/s, and flexible side- or top-view mounting options

KEY PRODUCT FEATURES

- ✓ Compact SMD packages (4.4 mm x 2.25 mm x 1.9 mm)
- ✓ AEC-Q102 qualified
- ✓ Available with single-stack (VCND2040X02, VCND2040SLX02) and double-stack (VCND2045X02, VCND2045SLX02) IR emitters
- ✓ Wettable flank lead frame design allows for mounting in either side-view or top-view orientation
- ✓ Moisture Sensitivity Level (MSL) of 3



RESOURCES



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MARKETS AND APPLICATIONS



MOBILITY

- Automotive electrification (battery cell communication)
- Automotive intelligence (smart vehicle)
- Micro mobility



ENERGY SECTOR

- Distribution and management
- Storage



INDUSTRIAL

- Automation
- Home and building controls
- Agriculture vehicles



CONNECTIVITY

- Telecom fixed infrastructure

ADDITIONAL BENEFITS

- The sensors deliver a data transmission line that is robust against cyberattacks and immune to EMC and EMI / RFI interference
- Features two independent lenses and an integrated crosstalk barrier between the IR emitter and detector to minimize optical interference