



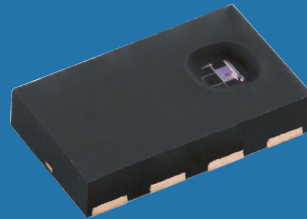
FORCE SENSING

HIGH RESOLUTION PROXIMITY SENSORS

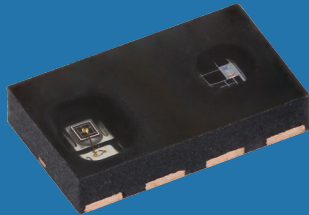
THE VISHAY ADVANTAGE

- High resolution of up to 20 μm
- Flexibility to fine tune the current for short displacements (ideal for force sensing)
- Integrated current driver with internal logic to drive up to three IREDs ([VCNL3036X01](#))

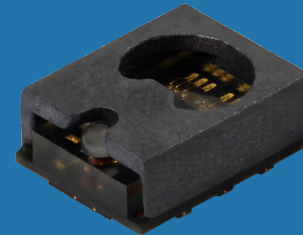
PROXIMITY SENSORS



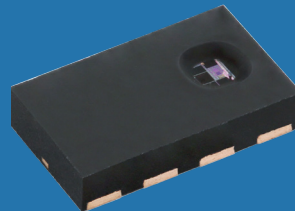
VCNL3036X01



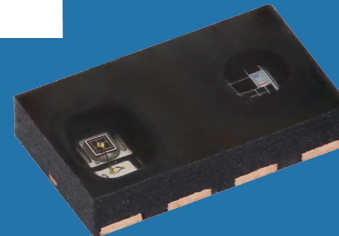
VCNL3030X01



VCNL36826S



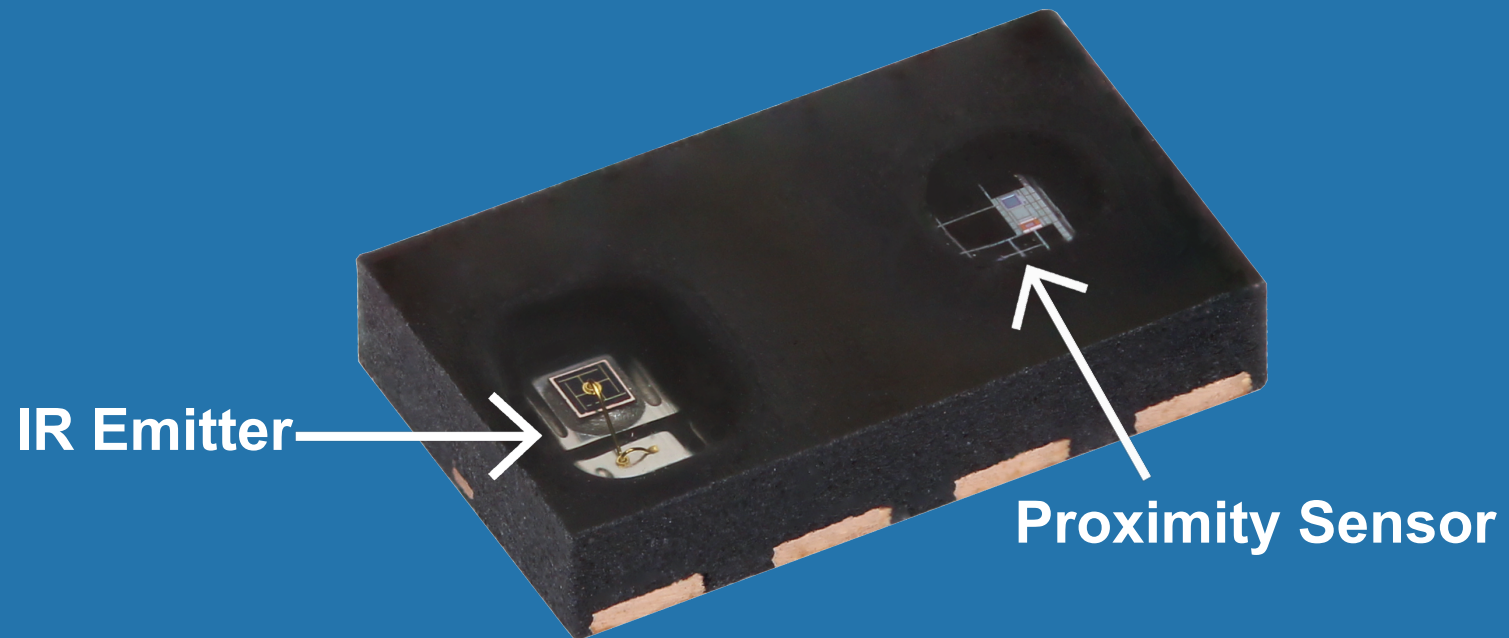
VCNL4035X01



VCNL4030X01



VCNL3030X01



APPLICATIONS



Steering Controls



Touchpads



Displays



Gaming Controllers

OPERATING PRINCIPLE

THE SENSOR IS PLACED BEHIND
A REFLECTIVE SURFACE WITH A
MINIMUM DISTANCE OF 3 mm



THE HIGH RESOLUTION
HELPS TO DISTINGUISH THE
LEVEL OF FORCE APPLIED



PRESSURE BENDS THE
SURFACE, SLIGHT CHANGES IN
THE SURFACE WILL BE DETECTED



For technical questions: consumersensors@vishay.com