



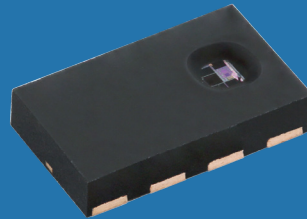
# FORCE SENSING

## HIGH RESOLUTION PROXIMITY SENSORS

### THE VISHAY ADVANTAGE

- High resolution of up to 20  $\mu\text{m}$
- 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](#))

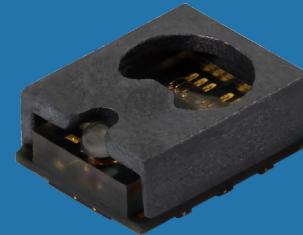
# PROXIMITY SENSORS



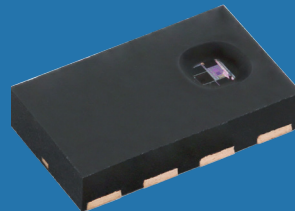
VCNL3036X01



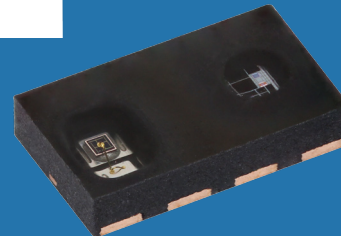
VCNL3030X01



VCNL36826S



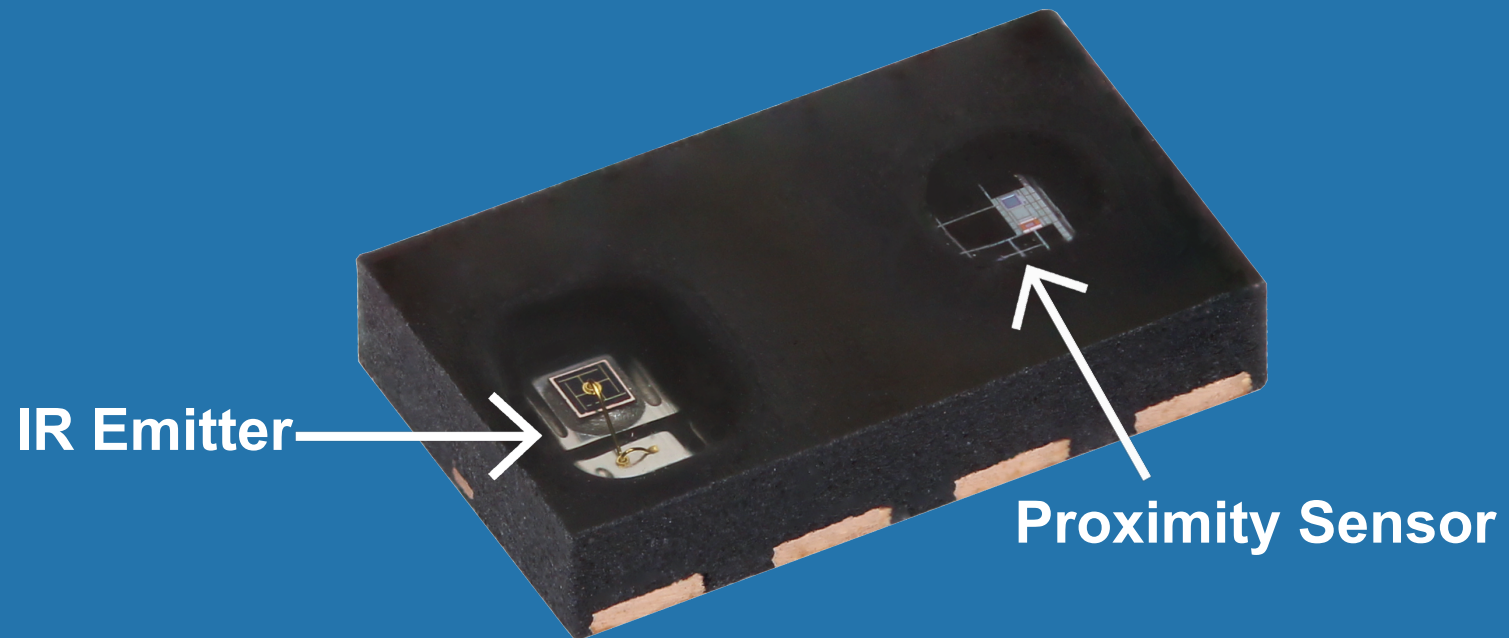
VCNL4035X01



VCNL4030X01



# VCNL3030X01



# APPLICATIONS



Steering Controls



Touchpads



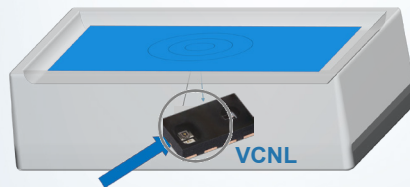
Displays



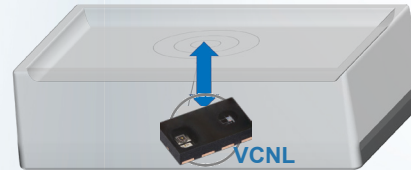
Gaming Controllers

# 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



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