



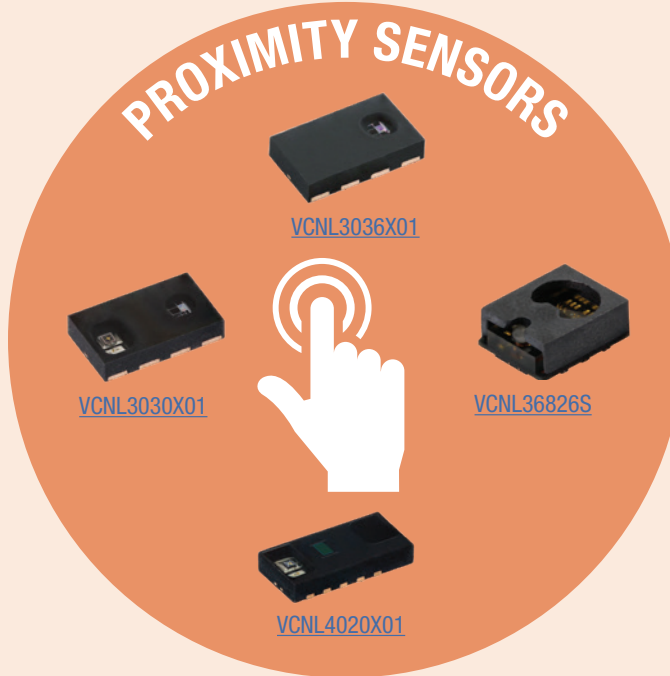
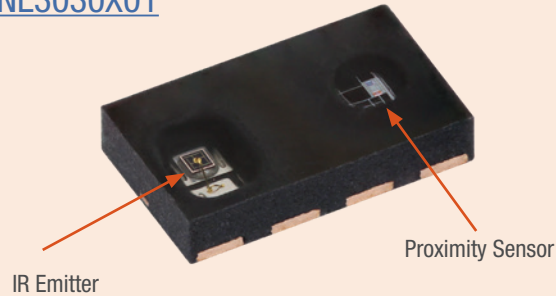
FORCE SENSING

USING HIGH RESOLUTION PROXIMITY SENSORS

VISHAY COMPETITIVE 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](#))

[VCNL3030X01](#)



APPLICATIONS



STEERING CONTROLS



TOUCHPADS



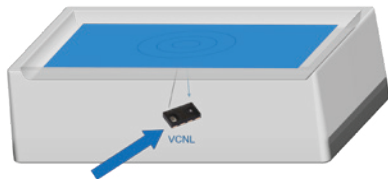
DISPLAYS



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

