



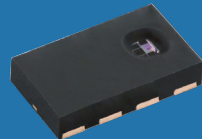
FORCE SENSING

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](#))

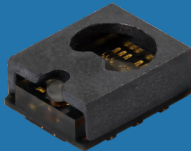
PROXIMITY SENSORS



[VCNL3036X01](#)



[VCNL3030X01](#)



[VCNL36826S](#)

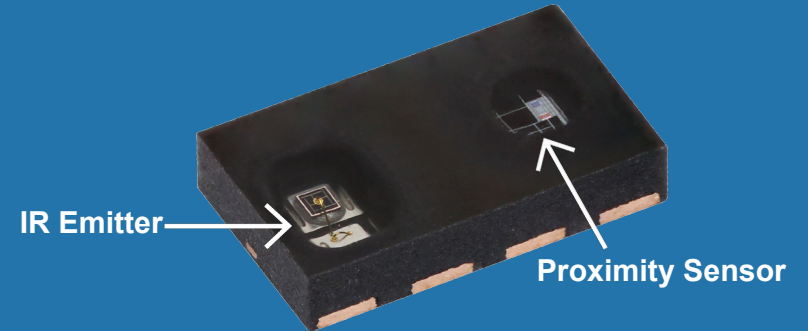


[VCNL4035X01](#)



[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: proximitiesensors@vishay.com

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IG15015743-2019