



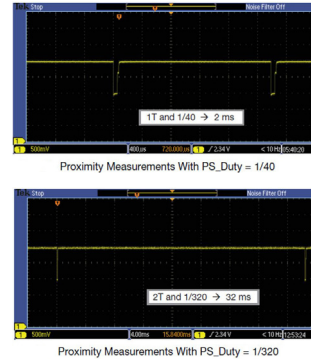
CAPABILITIES AND CUSTOM OPTIONS

PROXIMITY SENSORS

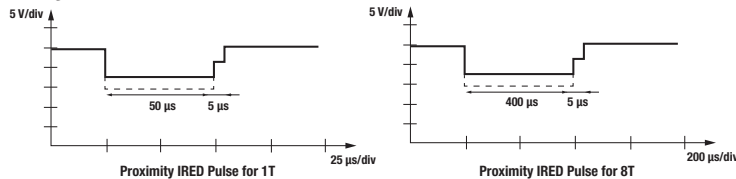
DESIGNED TO MAXIMIZE BATTERY LIFE

- Low sleep current in standby mode
- Power consumption can be adjusted via internal settings
 - Duty cycle: measure more or less often
 - IRED driving current: lower driving current
 - Proximity integration time: shorter IRED pulses for lower power consumption

Duty Cycle

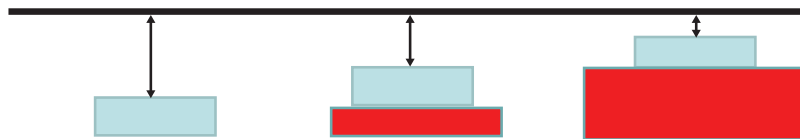


Integration Timeline



CUSTOMIZABLE DISTANCE TO COVER GLASS

Interposer available in various heights to adjust distance from cover glass

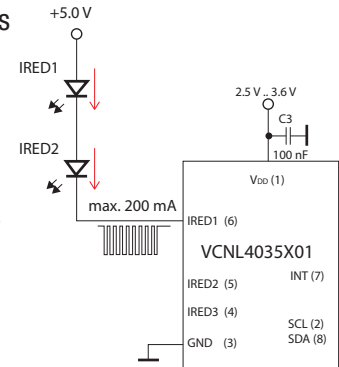


Internal setting for crosstalk cancellation to allow for one-step calibration

- Reflected Signal
- Offset
 - Noise Floor
 - Proximity Count

PRESENCE DETECTION

- Wide array of packages: with and without integrated lens on emitter/detector, for different proximity ranges
- Intelligent interrupt features: wake-up detection without the need for controller interaction as device can detect approaching and leaving objects
- Distance detection can be tuned via driving current, integration time, or adding an external emitter



ENVIRONMENTALLY ROBUST SENSORS

- Sunlight cancellation algorithm integrated into every measurement cycle
 - Further sunlight robustness can be activated via the component settings
- Low noise: across different integration times, IRED currents, and measurement speeds, while maintaining high sensitivity
- AEC-Q101 qualified parts available

