

ULTRA LOW POWER HALIOS® PRODUCT PREVIEW - NOV 08, 2012

E909.11



Features

- Supply voltage range 2.2 V to 3.6 V
- Lowest stand-by current of 0.4 μA
- ► Up to 1 MHz HALIOS® frequency
- ▶ 3 independent sending channels
- ► Each sending channel with up to 100mA LED current
- Ambient Light Measurement (ALS)
- ► High speed I²C interface (up to 3.4 MHz)
- New electro-optical basic coupling implemented
- Front-end solution to be used with any MCU
- Small size chip-scale-package or QFN

Added Values

- HALIOS® the No. 1 IR sensor in the automotive market
- Almost no external components needed
- Cyclic measurements for lowest power consumption
- ► Immune against any ambient light up to 200 klx
- ALS independent from proximity detection
- Excellent temperature stability, sensitivity and speed
- Reference electrical schematics and layout are available

Applications

- High performance proximity detection up to 500 mm
- Fast and reliable 3D gesture control solution for mobile and industrial devices

General Description

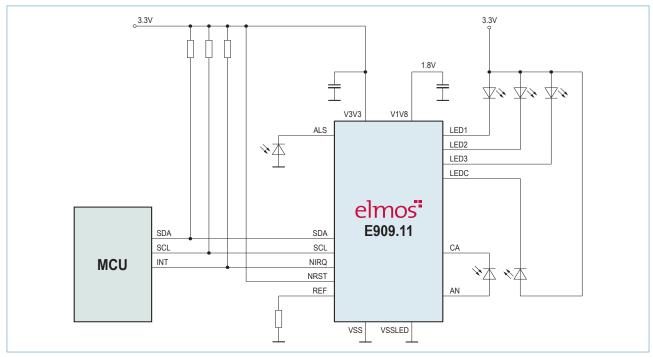
Far reaching, stable proximity detection and an ALS input enables highly improved quality for well known features. Proven optical reliability – the original from the inventor!

Lowest current consumption together with the outstanding HALIOS® advantages makes this product suitable for every (mobile) device. The high HALIOS® frequency shortens the active measurement time to the minimum. Easy to use due to optimized pre-settings based on many years of application experience.

Ordering Information

Product ID	Temp Range	Package
E909.11	-40°C to +85°C	chip scale
E909.11	-40°C to +85°C	QFN20L4

Typical Application Circuit



This document contains information on a product under development. ELMOS Semiconductor AG reserves the right to change or discontinue this product without notice.

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