

## Features

- ▶ Supply voltage range 2.2 V to 3.6 V
- ▶ Low sleep current of 0.4  $\mu$ A
- ▶ Up to 1 MHz HALIOS<sup>®</sup> frequency
- ▶ 3 independent sending channels
- ▶ Each sending channel with up to 100mA LED current
- ▶ Ambient Light Measurement (ALS)
- ▶ High speed I<sup>2</sup>C interface (up to 3.4 MHz)
- ▶ New electro-optical basic coupling implemented
- ▶ Front-end solution to be used with any MCU
- ▶ Small size Bare-Die or QFN package

## Added Values

- ▶ HALIOS<sup>®</sup> – the No. 1 IR sensor in the automotive market
- ▶ Almost no external components needed
- ▶ Cyclic measurements for lowest power consumption
- ▶ Best ambient light immunity
- ▶ ALS independent from proximity detection
- ▶ Excellent temperature stability, sensitivity and speed
- ▶ Reference electrical schematics and layout are available
- ▶ Not affected by fluorescent lamps

## Ordering Information

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

## Applications

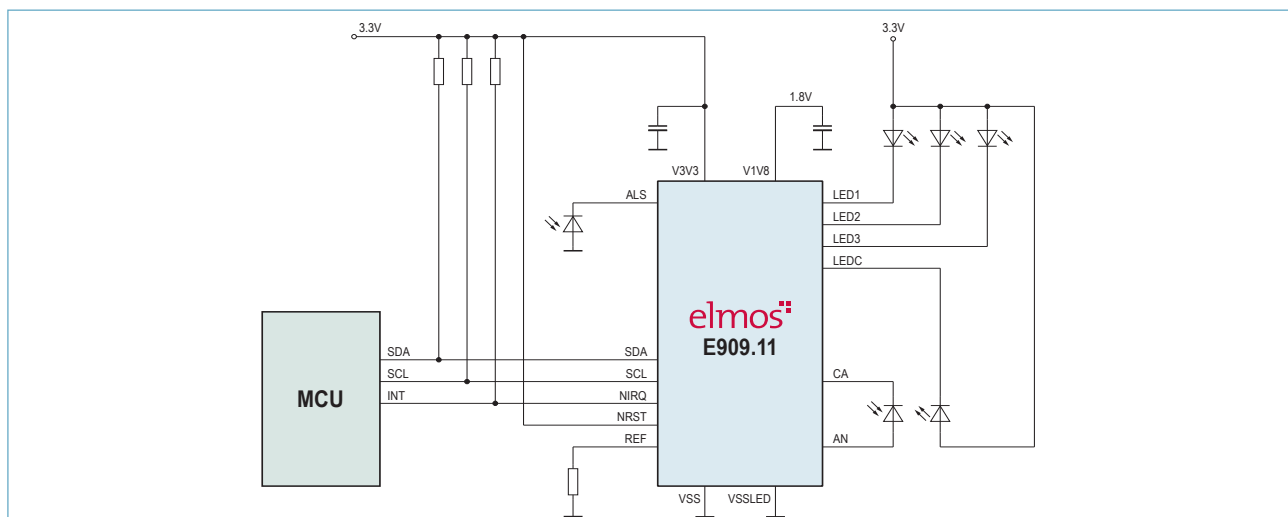
- ▶ High performance proximity detection up to 500 mm
- ▶ Fast and reliable 3D gesture control solution for mobile and industrial devices
- ▶ Gesture sensor IC for mobile devices (e.g. smart phones, tablets, PDAs, notebooks, laptops, digital cameras and more consumer products) for touch screen locking, power saving, etc.
- ▶ Ambient light interface function for dimming of mobile devices and display/keypad contrast control
- ▶ Gesture sensor IC for consumer, computing and industrial devices and displays

## 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<sup>®</sup> advantages makes this product suitable for every (mobile) device. The high HALIOS<sup>®</sup> frequency shortens the active measurement time to the minimum. Easy to use due to optimized pre-settings based on many years of application experience.

## Typical Application Circuit



Elmos Semiconductor AG reserves the right to change the detail specifications as may be required to permit improvements in the design of its products.

# Elmos Support 07/2013

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