

Features

- HALIOS® amplitude control
- 1 Receiving channel
- 4 LED Sending channels
- 1 Compensator channel
- 10 Loop register sets
- I²C communication interface
- Wake up of host controller via interrupt
- Automatic switch from slow to fast gesture mode
- Low Power
 - 1.5µA Sleep Mode
 - 150µA Idle Mode with autonomous measurement mode
- AEC-Q100 automotive qualified

Applications

- Wide Sensor Bars
- Door Handles
- Control Panels
- Focal point of Interest

General Description

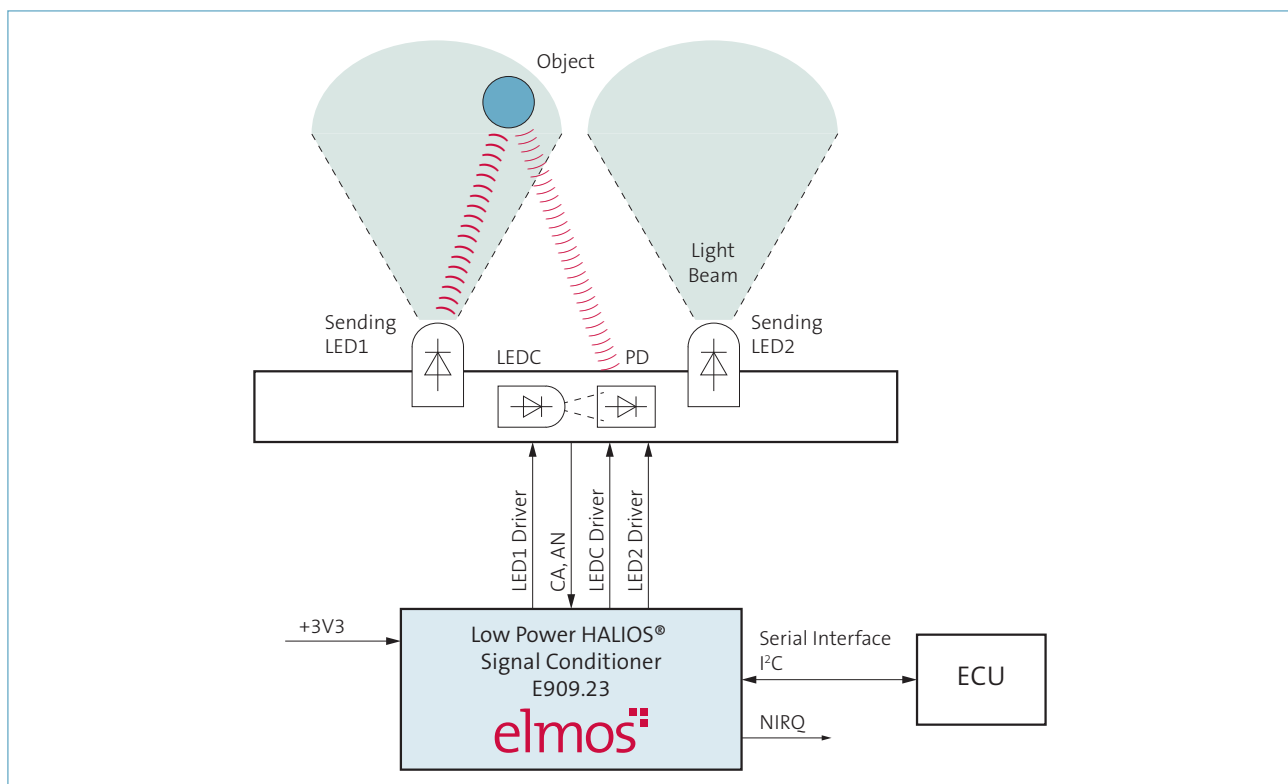
The E909.23 is a dedicated HALIOS® signal conditioner for gesture control applications and optimized for the use for automotive touch displays in low power applications.

The function principle is based on comparing the light beam, which is reflected by the object to be detected with a reference light beam for most robust object detection. As a result, the device offers best immunity against ambient light, enhanced sensitivity and automatic calibration over system lifetime.

Ordering Information

Product ID	Temp Range	Package
E90923A52C	-40°C to +105°C	QFN20L4

Typical Application Circuit



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