

Description

The K-LD2 is a fully digital and low cost radar movement detector. The digital structure makes it very easy to use in any stand-alone or MCU based application where a movement detection or speed measurement is required.

The sensor includes a 2×4 patch radar front-end with an asymmetrical beam and a powerful signal processing unit with two digital outputs for signal detection information. The sensitivity and the hold time are adjustable using analogue inputs with potentiometers. The serial interface features a powerful command set to read-out advanced detection data or to fully customize the detection algorithm.

There is no need to write own signal processing algorithms or handle small and noisy signals. This module contains everything that is necessary to build a simple, yet reliable movement detector.

A very small footprint of $25 \times 25 \times 6.5$ mm gives maximum flexibility in the product development process.

A powerful evaluation kit (K-LD2-EVAL) with signal visualization on a PC is available.

Block Diagram

Figure 1: K-LD2 block diagram

