K-LD2 RADAR TRANSCEIVER



The K-LD2 is an easy to use 2×4 patch Doppler module with an asymmetrical beam for lowcost short distance applications. This transceiver includes a RFbeam RSP1 Signal processor and all necessary circuitry.

It outputs a detection signal and also the direction of the movement. Important parameters can be adjusted with external potentiometers. Object speed can be measured using the integrated serial connection.

There is no need to write own signal processing algorithms or handle small and noisy signals. This module contains everything what is necessary to build a simple but reliable movement detector. An extremely slim construction with only 6 mm depth gives you maximum flexibility in your equipment design.

A powerful starterkit with signal visualization on a PC is available.

APPLICATIONS

- General movement detection applications
- Door opener
- Indoor and outdoor lighting control applications
- Object speed measurement systems
- · Industrial sensors

FEATURES

- 24 GHz miniature I / Q transceiver
- Integrated FFT Signal Processing with digital output
- · Lowcost design
- Digital outputs for detection and direction
- Sensitivity and holdtime can be set using analog inputs
- · Additional configuration possible with serial input
- 2 × 4 patch antenna with 80 °/ 34 ° beam aperture
- 25×25 mm ² surface, thickness < 6.5 mm

BLOCKDIAGRAM Voltage regulator RFbeam RSP1 detect direction serial interface sensitivity hold time

