

TERABEE

TeraRanger Evo Swipe Plus

Detect people movement, trigger actions based on proximity, understand customer engagement and perform touchless gesture recognition with one compact ToF sensor

Evo Swipe Plus provides four complimentary modes in one small sensor module that is discreet and easy to integrate. The sensor will detect the presence of people and their proximity to the sensor, it will understand in which direction people are moving and switch to a touchless gesture recognition mode for people to interact with information panels, kiosks and other devices. Its touchless gesture recognition features offer convenience for users and companies by reducing the risk of virus transmission and the need for constant disinfection of user interfaces

Key features

- 4 modes in one small sensor module Presence and direction detection, engagement trigger, touchless gesture control
- Embedded algorithm for autonomous mode switching
- Small, discreet sensor (not a camera). GDPR compliant by design
- Easy integration. Ideal for OEM design-in projects



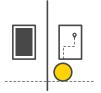
Applications



Traffic detection



Direction detection



Responsive display advertising



Touchless gesture recognition

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Technical specifications

| Part Number | TR-EVO-SWP-PL-USB TR-EVO-SWP-PL-UART |
|--------------------------------|---|
| Performance | |
| Detection Principle | Infrared Time-of-Flight |
| Light Source Wavelength | 940 nm |
| Use Environment | Indoor |
| Field of View | 27° |
| Operation Modes | Presence detection Bidirectional people traffic detection Engagement trigger Gesture recognition |
| Electronics | |
| Supply Voltage V _{IN} | 5V DC +/-5% |
| Current Consumption Average | 50 mA |
| Initialization Time | < 1 s |
| Communication | |
| Serial Interface | USB 2.0 Micro-B UART, +3.3V level, 115200,8,1, None |
| Visual Notification | 3 x LEDs (built-in backboards) |
| Mechanical data | |
| Dimensions | 42 x 30 x 13 mm (incl. backboard) |
| Weight | 9 g (incl. backboard) |
| Operating Temperature | -20° C to 75° C |
| Housing Material | ABS |
| Mounting Style | 2 holes for M2 screws |
| Type of Connection | USB Backboard: USB 2.0 Micro-B I2C/UART Backboard: DF13-7p connector |
| Conformity | |
| Reference Standard | CE, RoHS |

Details of operation modes

| Mode | Output |
|--|--|
| Presence detection | Detect the presence of people and count the number passing by the sensor |
| Bidirectional people traffic detection | Count the number of people passing by the sensor and their direction of travel: left or right |
| Engagement trigger | Detect when a person stands in front of the sensor and triggers gesture recognition mode |
| Gesture recognition | Swipe:Left to Right hand-movementRight to Left hand-movement |
| | Validation: Downward hand-movement to simulate a button press |

Presence detection mode

| Range mode | Long-Range |
|-------------|------------------|
| Range | ~ 0.3 m to 1.7 m |
| Update Rate | 25 Hz |

Bidirectional people traffic detection mode

| Range mode | Long-Range | |
|-------------|----------------|--|
| Range | ~ 0.2 m to 3 m | |
| Update Rate | 20 Hz | |

Engagement trigger mode

| Range mode | Short-Range |
|-------------|------------------|
| Range | ~ 0.5 m to 1.5 m |
| Update Rate | 20-25 Hz |

Gesture recognition mode

For optimal performance, the user's body should be more than 0.5 m from the sensor, with their hand swiping in the 0.1 m to 0.5 m range of the sensor

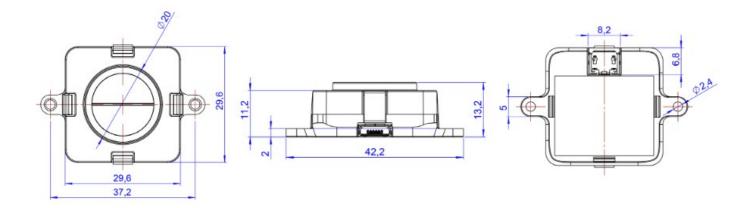
Gesture mode (Left / Right)

| Range mode | Short-Range |
|-------------|------------------|
| Range | ~ 0.1 m to 0.5 m |
| Update Rate | 25 Hz |

Gesture mode (Validation)

| Range mode | Short-Range |
|-------------|--------------------|
| Range | ~ 0.01 m to 0.15 m |
| Update Rate | 25 Hz |

Dimensions



Installation

Back-panel installation



Front-panel installation



Have any questions? Contact us today!

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