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Infrared Receiver Sensor Modules

The TSSP-ZA Receivers' Sensitivity Is Tuned to a Level That Makes Them Robust Against Direct Sunlight

ADVANTAGE



TSSP-ZA series receivers were designed for use in outdoor sensor applications, even in direct sunlight

KEY PRODUCT FEATURES

- ✓ Direct sunlight robustness—receivers can directly face the sun without unwanted pulses
- ✓ Good sensitivity in bright ambient (1.3 mW/m^2) in compact Minimold packages
- ✓ Low supply voltage range from 2.0 V to 3.6 V, low supply current of 0.8 mA, and carrier frequency of 38 kHz

TSSP93038DF1PZA

TSSP93038SS1ZA



MARKETS AND APPLICATIONS



CONSUMER

- Sensors—soap dispensers, toilet flush Metering—water level sensors
- Toys, drones, robots, and vicinity switches



MOBILITY

- Traffic control lights, parking lot sensors, gateway access sensors



INDUSTRIAL

- Light barriers for sport and racing, lawnmower robots, vending machine fall detection, security and pet gates

ADDITIONAL BENEFITS

- Detection threshold of 1.3 mW/m^2 makes the receiver robust even in direct sunlight
- No additional parts are needed to protect the receiver
- Sensitivity for light barriers of up to 10 m range with a standard TSAL6100 emitter at 100 mA forward current
- Longer ranges can be achieved when using a more focused emitter like the VSLY5940 or by increasing the emitter forward current

RESOURCES



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