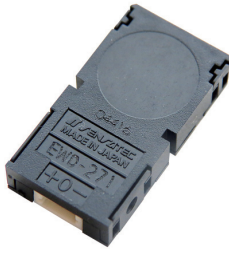


Model EWD-271 High-frequency Induced Magnetic Field Detector (Radio Wave Sensor)



Model List	Reference Detection Frequency
EWD-271	1,130 kHz

Application

- Ball count counter
- Intervening Medal or Ball Dispenser
- Pachinko machine
- Medal counter
- Slot machine
- SUS ball detection proximity sensor

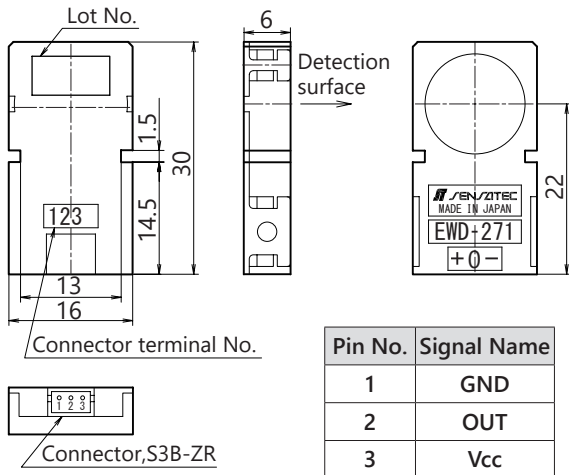
Features

- A low cost, open collector output radio frequency wave sensor that is easy to use.
- Since this is a normally closed output, it is easy to identify harness failures.
- You can monitor most of the frequency range of the sensor using any high frequency.
- It is possible to detect exposure to fraudulent emissions, with high sensitivity, from external sources that may interfere with a pachinko machine and its control unit.
- The sensor can be easily recycled for reuse, as it can detect fraudulent emissions in the frequency bands radiated by the high-frequency proximity sensors of all manufacturers.
- It is possible to monitor exposure to fraudulent emissions to the main board.
- The wide band frequency range from 200kHz to 3000kHz used for proximity sensor can be monitored with high sensitivity.

Rating/Performance

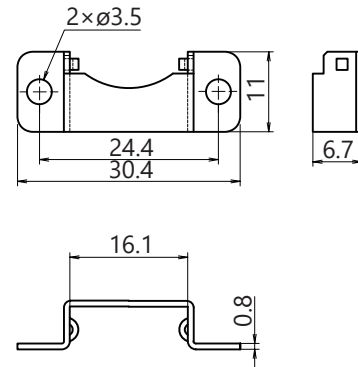
Model	EWD-271
Power Voltage	12 V DC (Operating voltage range : 9.6 V to 14.4 V DC)
Power Consumption	10 mA DC or less (at 12 V DC)
Reference Detection Frequency	1,130 kHz
Detection Frequency Range	The range in the Magnetic field intensity of 500 mA/m : 150 kHz or more, 5 MHz or less
Detection Sensitivity	For the reference detection frequency, Magnetic intensity: 150 ±50 mA/m
False Wave Detection-resistant Characteristics	80 V/m or more in 15 MHz-3 GHz
Operation Mode	"Output transistor: ON" without high-frequency inductive magnetic field
Output	NPN Transistor Open Collector : 30 V DC, 50 mA DC or less
Output Residual Voltage	0.5 V DC or less (load current 50 mA DC)
Load Resistance	50 MΩ or more, at 500 V DC megger (Between live parts and the case)
Temperature Range	-10 °C to 60 °C (At storage: -10 °C to 60°C) (No condensation or freezing)
Humidity Range	35 % to 85 % RH (Storage, 35 % to 85% RH) (No condensation or freezing)
Breakdown Voltage	500 V AC, 50/60 Hz for 1 min (Between live parts and the case)
Insulation Resistance	50 MΩ or more, at 500 V DC megger (Between live parts and the case)
Vibration Resistance	Durability : 10 to 55 Hz, Double amplitude: 1.5 mm in X-, Y-, and Z-direction, each 2 hours (Device not powered)
Shock Resistance	Durability : 500 m/s ² (Approx. 50 G) in X-, Y-, and Z-direction, each 3 times (Device not powered)
Ingress Protection	IP50
Case Material	ABS resin
Connector	Connector : S3B-ZR (3-pin), [Connections] Housing : ZHR-3, Contact: SZH-002T-P0.5 (from J.S.T. Mfg. Co., Ltd.)
Weight	Approx. 4 g
Options (Sold Separately)	Mounting bracket : PMS-5TS , Connector harness: SZH-3-300

Dimensions

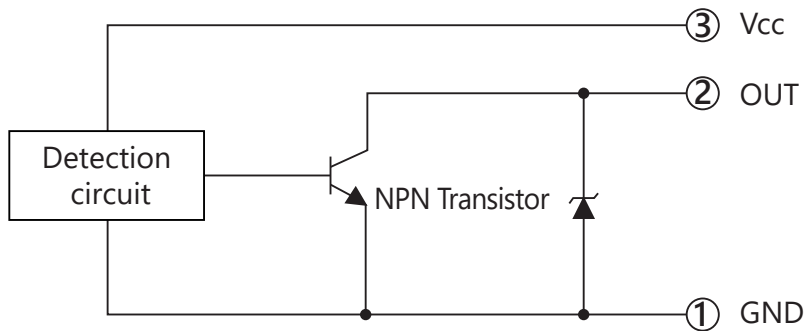


Mounting Bracket

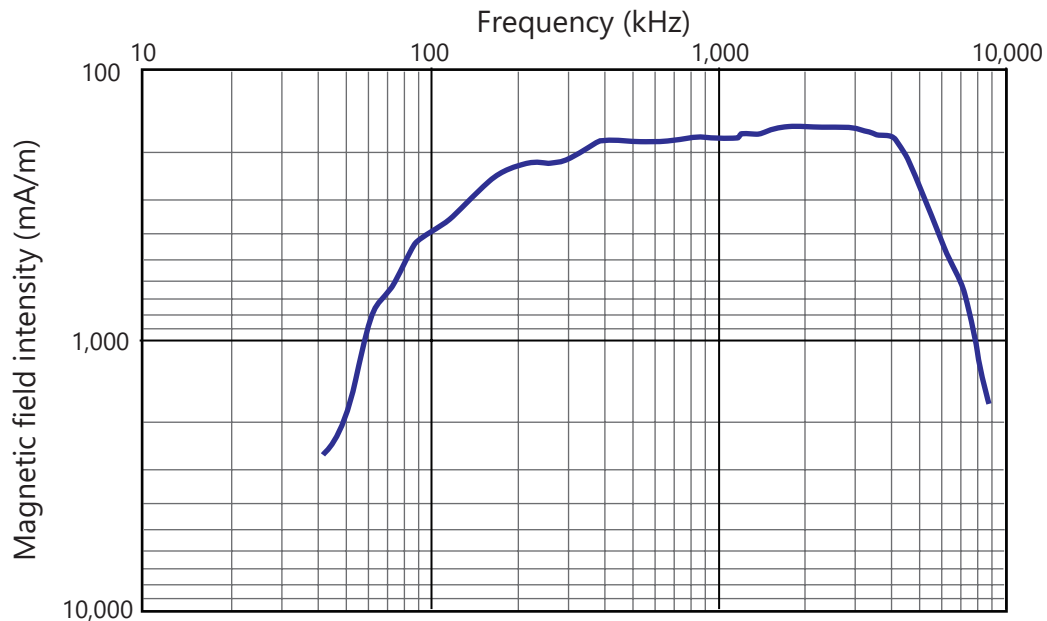
PMS-5TS



Output Circuit



Frequency Characteristics (Typical)



Precautions During Use

1. A highly sensitive radio frequency wave sensor. Use away from devices that generate high frequency noise.
2. When using a power supply with large common mode noise, connect the GND line to FG via a large capacitor.
3. If used near a broadcast antenna, common mode noise will be input via 100V AC. Connecting the GND line to the FG line via a capacitor removes common mode noise.