

MT-DTP-TYZ/B

The MT-DTP-TYZ/B Magnet Track Dual-Tech Presence Sensor is a professional-grade occupancy solution that integrates Passive Infrared (PIR) and 24GHz FMCW Radar technologies to achieve high-precision detection of motion, micro-movements, and stationary presence. Designed for seamless installation on standard magnetic tracks, the device utilizes dual-signal cross-verification to minimize false triggers while offering a 360° detection angle with a motion detection diameter of up to 8 meters. Operating on the Tuya ZigBee protocol, it features integrated illuminance monitoring to support diverse application scenarios and is fully configurable via Tuya-enabled apps, providing optimized energy management across smart homes, offices, hospitality, and education sectors.



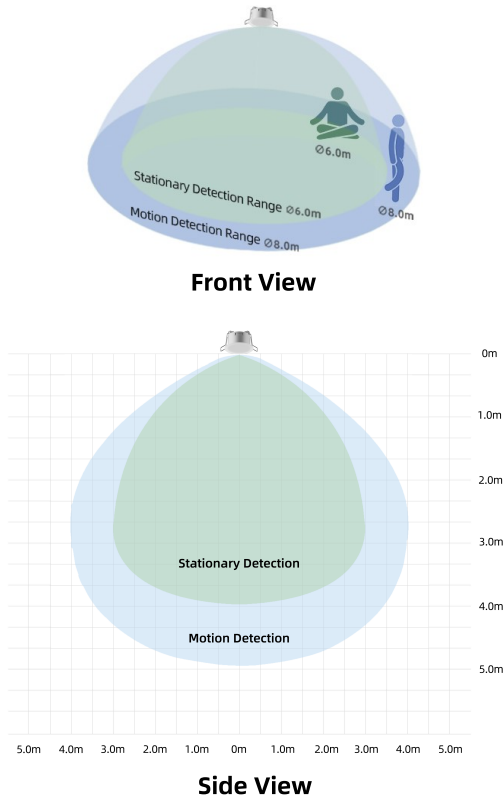
Features

- Utilizes dual-signal cross-verification technology to effectively suppress false triggers and significantly improve response precision.
- Accurately identifies motion, micro-motion, and Presence.
- Features a magnetic track interface for instant, tool-free installation and effortless repositioning along the track.
- Features a universal adjustment bracket supporting 360° omnidirectional flexibility to seamlessly adapt to diverse detection angles and coverage requirements.
- Sensitivity and detection distance can be adjusted independently.
- Integrated high-precision sensor for accurate indoor illuminance monitoring.
- Supports parameter configuration and status readout via IR remote control.
- Indicator LED brightness automatically adjusts to ambient light levels.
- Powered by a proprietary module with advanced signal processing algorithms.

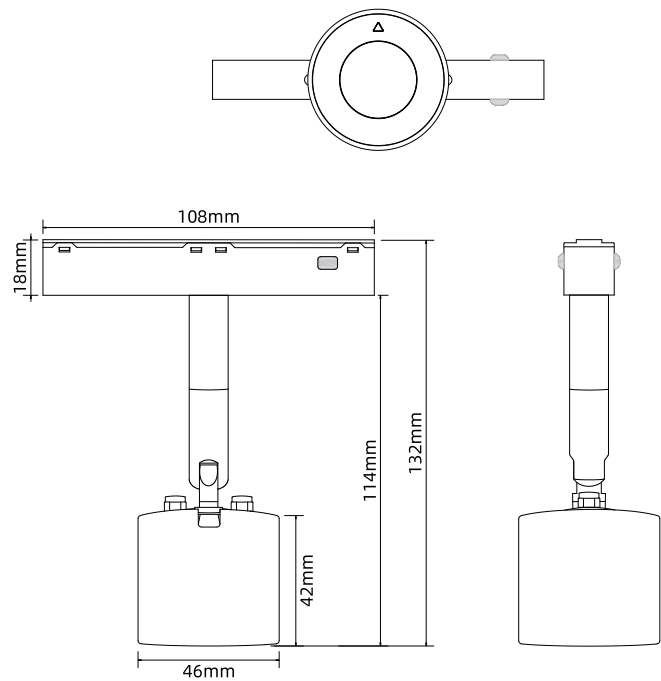
Specifications

Communication Type	TY-ZigBee
Input Voltage	DC 12 ~ 36 V
Power Consumption	0.75 W (Max)
Indicator Light	LED
Detection Mode	PIR + 24GHz FMCW Radar
Operating Frequency	24.00 to 24.25 GHz
Transmit Power	≤ 10 dBm
Installation Method	Magnetic Track Mounting
Mounting Height	2.0 to 4.0 m
Detection Angle	360°
Detection Coverage	Installation at 3.0 m Height: ① Motion & Micro-motion: Detection diameter at least 8.0m ② Stationary Presence: Detection diameter at least 6.0m
Detection Range	1.5 to 8.0 m (sensor to target)
Sensitivity	0 to 100%
Illuminance Monitoring	0 to 32,000 Lux (Accuracy ±4%)
Delay Time	1 to 3,600 seconds
Product Size	108 mm ×132 mm ×46 mm
Product Weight	110 g
Operating Environment	Indoor -20 to 45°C Humidity < 95% RH (Non-condensing)
Storage Temperature	-40 to 85°C
Protection Level	IP20
Housing Material	PC、Aluminium

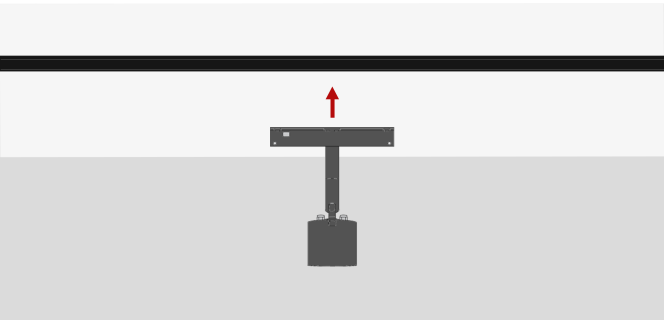
Detection Range



Dimensions



Installation



Installation Notes

Interference Avoidance: Keep away from moving objects (e.g., curtains, plants) and large metal/reflective surfaces.

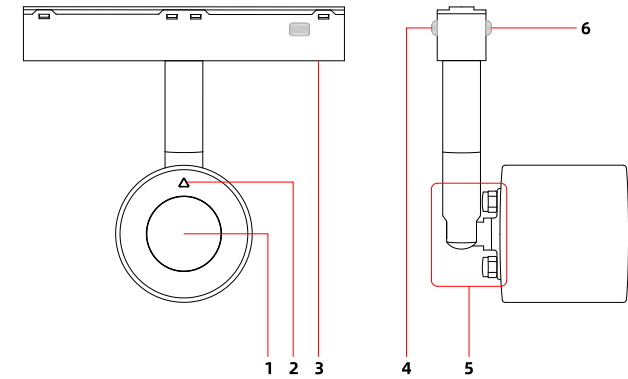
Device Spacing: Maintain a minimum distance of 4 m between multiple sensors to prevent mutual interference.

Mounting: Install on a stable, vibration-free surface. Ensure no moving objects are behind the wall (signals penetrate non-metals).

Wiring Safety: Disconnect power before wiring. Use certified cables and ensure the circuit includes appropriate short-circuit and overload protection.

Disclaimer:Product specifications are subject to change without prior notice for improvement purposes. Please follow all wiring diagrams strictly. The manufacturer is not liable for issues caused by improper installation.

Interface



- 1. Dual-Tech Sensor Detection Surface
- 2. Orientation Marker
- 3. Magnetic Track Mounting Base
- 4. Polarity-Independent Electrodes
- 5. Universal Adjustment Structure
- 6. Polarity-Independent Electrodes

Available Accessories



Remote Control (60.99.00C1)

Ordering Information

P/N	Short Name	Model	Remarks
60.9B.8B16	MT-DTP-TYZ/B	CTL-SEN-Mini/8B16	Black
60.99.8A16	MT-DTP-TYZ/W	CTL-SEN-Mini/8A16	White
60.99.00C1	RC1	RC1	Accessory