

MT-DTP-TYW/W

The MT-DTP-TYW/W 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 48V 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 WiFi 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.



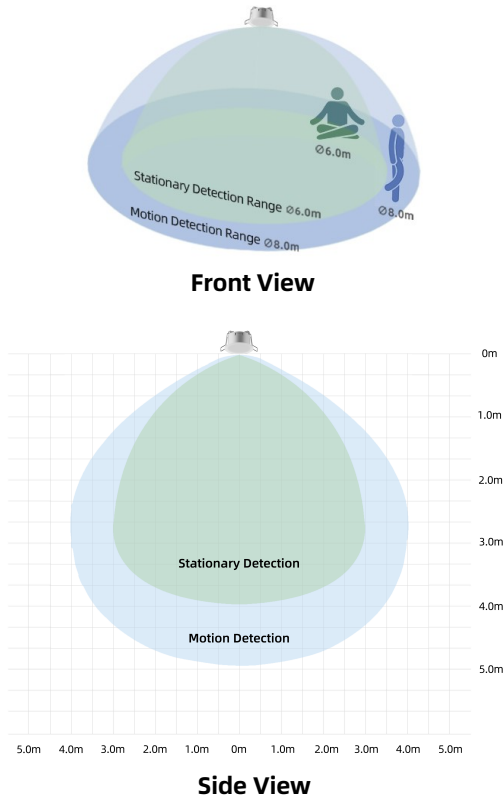
Features

- 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.

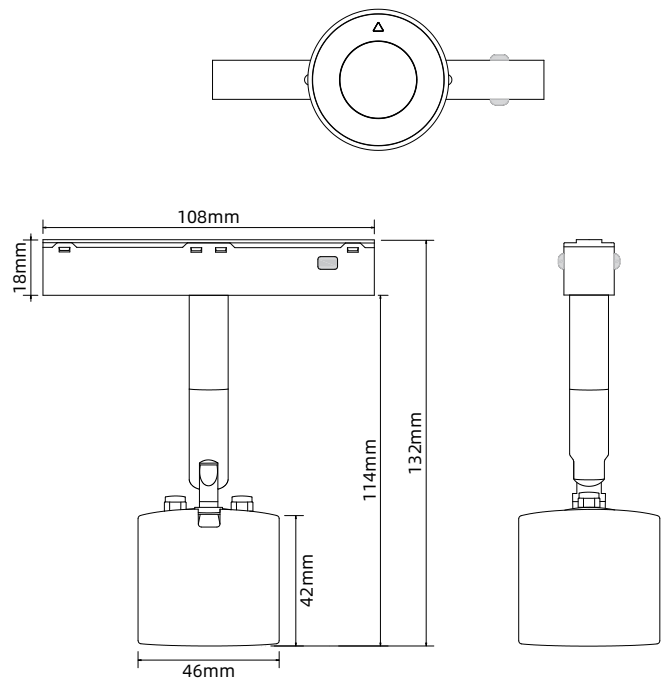
Specifications

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication Type     | TY-WiFi                                                                                                                                               |
| 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:<br>① Motion & Micro-motion: Detection diameter at least 8.0m<br>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<br>Humidity < 95% RH<br>(Non-condensing)                                                                                           |
| Storage Temperature    | -40 to 85°C                                                                                                                                           |
| Protection Level       | IP20                                                                                                                                                  |
| Housing Material       | PC, Aluminium                                                                                                                                         |

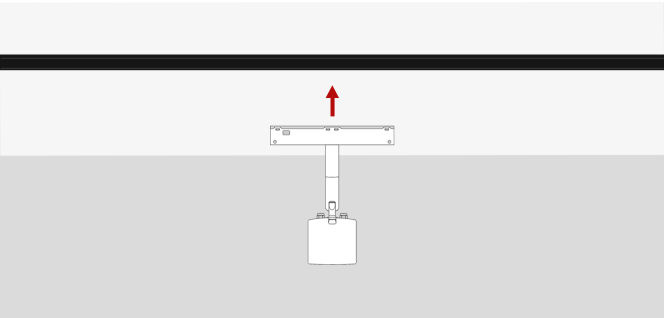
Detection Range



Dimensions



Installation



Installation Notes

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

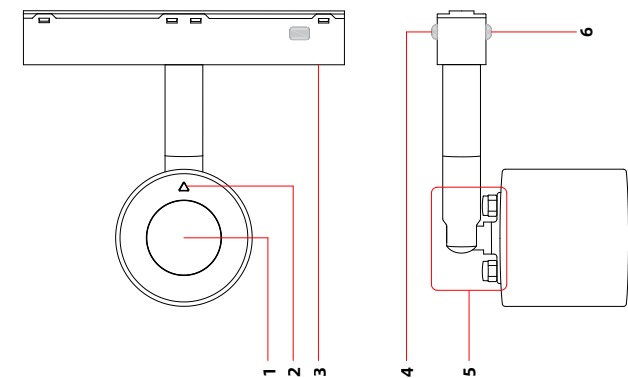
**Device Spacing:** Maintain a minimum distance of 4 m between multiple sensors to prevent mutual interference.

**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   |
|------------|--------------|-------------------|-----------|
| 60.99.8A26 | MT-DTP-TYW/W | CTL-SEN-Mini/8A26 | White     |
| 60.9B.8B26 | MT-DTP-TYW/B | CTL-SEN-Mini/8B26 | Black     |
| 60.99.00C1 | RC1          | RC1               | Accessory |