

# YPS20 Datasheet

YPS20 is a surface-mount partition sensor. This easy-to-install sensor uses an infrared (IR) beam to sense the position of the movable partition.

In space, the signal strength of the infrared beam is adjustable, and the maximum effective sensing distance can reach 1.5m.

The 2 LED lights on the unit provide the status of sensor power、communication status and partition detection.

Connected to the AP08 GPIO interface, the Room Designer software of Yealink can easily realize the adaptive setting of the divisible meeting room and easily manage the equipment status of the divisible meeting room.

In terms of deployment, with the included 10-meter cable, the sensor can be arranged in the right position in the room, making partition detection easier.



## Key Features and Benefits

- Simple, compact appearance.
- Infrared diffuse reflection technology is used to achieve high precision and low misjudgment.
- Equipped with 10-meter cable, for flexible installation, wiring, and easy deployment.
- Effective working distance of 1.5 m.
- Adjustable sensitivity to adapt to complex environments.

- Clear 2-color LED indicators.
- Use with Yealink AP08 and Yealink Room Controller for adaptive settings.

## Specifications

| Parameter                        | Introduction                                                                                        |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Sensing</b>                   |                                                                                                     |
| Sensor Type                      | Diffuse Reflection                                                                                  |
| Detection Distance               | 1.5m                                                                                                |
| Standard Detection Object        | White Drawing Paper: 300×300mm                                                                      |
| Return Difference                | ≤ 20%                                                                                               |
| Light Source (wavelength)        | Infrared light-emitting diode (850nm)                                                               |
| Response Time                    | Less than 0.5 ms                                                                                    |
| <b>Power and Signal</b>          |                                                                                                     |
| Supply Voltage                   | DC 12-24V, ±10% pulsation (P-P) less than 10e                                                       |
| Control Output                   | NPN/PNP output, wiring switching                                                                    |
| Current Output                   | 100 mA                                                                                              |
| Consumed output                  | Less than 25 mA                                                                                     |
| <b>Controls &amp; Indicators</b> |                                                                                                     |
| Action Mode                      | Dark ON /Light ON switched by knob                                                                  |
| Switch Mode                      | 270° knob switch                                                                                    |
| Sensitivity Adjustment           | Single knob switch                                                                                  |
| Indicator                        | Action indicator (orange), Stable indicator (green)                                                 |
| <b>Protection</b>                |                                                                                                     |
| Protection Circuit               | Power reverse protection, output short-circuit protection, output reverse protection                |
| Insulation Resistance            | More than 20M Ω (DC500 V megohm meter)                                                              |
| Withstand Voltage                | AC 1500 V 50/60 Hz 1 min between the whole charging part and the shell                              |
| Withstand Vibration              | Up and down 1.5 mm at 10~55 Hz for each 2 hours in X / Y / Z directions                             |
| Withstand Impact                 | 300 m/s <sup>2</sup> for each 10 times in X / Y / Z directions                                      |
| <b>Environment</b>               |                                                                                                     |
| Ambient Illumination             | Lighting collecting surface illumination incandescent lamp: below 3000 lx, sunlight: below 10000 lx |

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Ambient Temperature | Working: -35-55°C / Storing: each -40~70°C(no icing, no dew) |
| Ambient Humidity    | Working: 35-85%RH / Storing: each 35~95%RH (no dew)          |
| IP Grade            | IEC standard IP65                                            |
| Material            | ABS                                                          |
| Lens                | PMMA                                                         |

## Outline Dimensional Diagram

