

YPS20 User Guide

Introduction

The Yealink solution uses the YPS20 to monitor the status of physical partitions in divisible and combinable meeting rooms. It controls the merging and separating of two rooms by detecting the presence of partition panels and executing the corresponding actions.

Step 1: Determine Sensor Installation Location

1. To determine an appropriate location for deploying the YPS20 sensor in a meeting room, consider the following conditions:

- The sensor should be installed in a location that is generally out of reach and free from interference by moving objects or people. Ceiling or side wall installations are recommended.
- Ensure the optical axis is as perpendicular as possible to the partition. If perfect alignment is not possible, keep the angle less than 30°.
- After deployment, the distance between the sensor and the partition must be less than 1.5 meters. Additionally, when the partition is open, there should be no structural beams or obstacles blocking the light path to maintain detection accuracy (refer to the following table).
- If objects behind the partition may cause misinterpretation of the open/closed status, consider reducing the sensor's sensitivity to minimize interference from these objects.

2. Adjust the sensitivity knob so that:

- Ensure the deployment position of the YPS20 relative to the partition is less than the effective distance.
- The distance from interfering objects behind the partition should be greater than the interference distance.

YPS20 offers 6 sensitivity levels. Refer to the following table for the corresponding active and interference distances at each level.

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Active Distance (m)	0	0.05	0.5	0.7	1.3	1.5
Interface Distance (m)	0	0.2	0.8	1.0	1.8	4

! ±10% variation may exist between individual units.

Step 2: Connect YPS20 to AP08


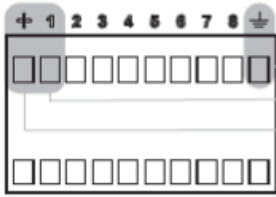

For actual deployment, the YPS20 will be used to connect the Yealink AP08 DSP to transmit the merge split

signal.

1. Connect the YPS20 to the Phoenix male terminal.
2. Plug it into the AP08 GPIO Phoenix female terminal.
3. Power on the AP08 once the connection is secure.

YPS20 Wire Definitions:

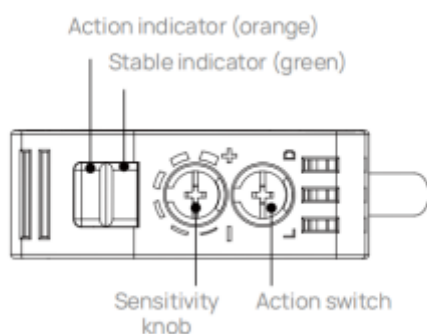
- **Brown:** Power supply positive
- **Blue:** Ground
- **White:** Signal output (connect to AP08 GPIO input)
- **Black:** Not used

YPS20	AP08 GPIO In	AP08 GPIO in Connector
Brown	 +12VDC	 <p>YPS20 blue line YPS20 white line YPS20 brown line</p>
White	Input 1	
Black	No Connection	
Blue	 GND	

Step 3: Verify Sensor Status

After wiring is completed:

1. Open and close the partition and observe the YPS20 indicator lights to ensure proper detection.
2. Make sure the **Action switch** is set to the **D** position.



Troubleshooting Based on Indicator Lights:

LED Status	Possible Cause	Solution
Green LED is off or blinking	Sensor is too far from the partition or at the detection limit	Move the sensor closer to the partition
Green LED is steady, orange LED	Interference is affecting	Increase distance from

blinks or turns off when rooms are merged	detection	interfering object or reduce sensitivity
Green LED is steady, orange LED turns on when rooms are divided	Sensor cannot detect the partition (e.g., dark-colored surface)	Move the sensor closer to the partition

Step 4: Wiring and Installation Considerations

- If the cable length from YPS20 to AP08 is less than 10 meters, the default cable is sufficient.
- For distances over 10 meters, use AWG26 cable to extend the wiring (maximum extension: 20 meters).

Step 5: Special Case Handling

- Under normal circumstances, the infrared beam of the sensor should be perpendicular to the partition. If perpendicular detection is not possible, an angle deviation within 30° is allowed, and the distance from the YPS20 to the partition should be less than 1.5 meters.
- The sensor detects the open/closed status of the partition by emitting infrared light that reflects off it. An inclined installation reduces the effective detection range, which can be compensated by slightly reducing the distance between the sensor and the partition.
- Avoid direct sunlight or strong light interference to ensure accurate sensor detection results.

Step 6: Room Designer Configuration

1. On the Room Designer homepage, click **New** to create a room. Enter the room information and click **Confirm** to proceed to the Room Setup Wizard.
2. Select to create a **Divisible Room**. Fill in the room information and choose the appropriate conference room equipment.

