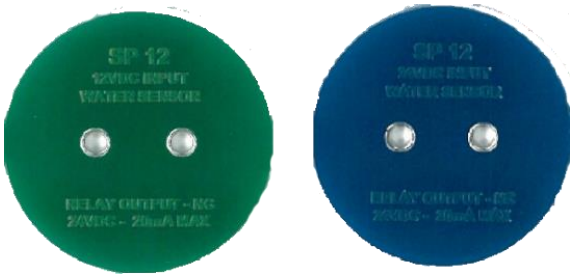
SP-12 User Guide

Water Detection Sensor

A water-resistant sensor specially designed to provide early detection of water sources, leaks or spills and also to prevent damage and downtime around your facilities.

TECHNICAL SPECIFICATIONS

Type:	Spot Water Detection Probe
Power Supply:	12VDC or 24VDC (refer to the table)
Output Rating:	NC Relay Dry Contact, 24V, 1A (Non-polarity)
Sensing Height:	1mm to 6mm (Adjustable)
Dimension:	24(h) x 44(diameter) mm
Weight:	120g
Enclosure:	Chrome Plated, Brass Material
Cord:	4-core (2 Power, 2 Contacts), 3 meters



WIRING COLOR CODE

Color	Description
Red	Positive Supply (+)
Black	Negative Supply (-)
Yellow	Relay Contact (NC)
White	Relay Contact (COM)

PCB COLOR SCHEME

Color	Supply
Green	12VDC
Blue	24VDC

*Refer to the figure above

FEATURES

- Solid chrome brass construction
- Sealed, waterproof and impact resistant
- 12 or 24VDC, 1 A output relay contact
- Fail-safe, normally closed (NC) relay contact
- Adjustable sensor height
- Visual alarm indication
- Standard 3m cable length

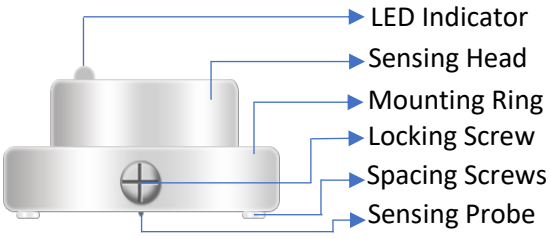


Figure 1

INSTALLATION

1. Place SP-12 on a flat surface where water accumulation or water leakage can possibly occur. (Ex: air-conditioner water tray, pantry, flood prone rooms)
2. Connect the red (+) and black (-) wires to the power supply. It depends on the color of the PCB if it will be connected to a 12VDC or 24VDC supply
3. The white and yellow wire are the relay alarm outputs. You can connect it as inputs in EMS devices such as Picobox REX and FMGuard or other alarm detection systems.

OPERATION

When water comes in contact with the two sensing probes, the relay contact would change from close to open contact and the LED indicator would turn red.

ADJUSTING WATER SENSING HEIGHT

1. Loosen the locking screw using a Philips head screwdriver (anti-clockwise)
2. Adjust the Sensing Head to the required height. (1mm to 6mm)
3. Tighten the Locking screw in clockwise direction (Note: Do NOT over tighten)
4. If higher than 6mm sensing height is required, 3 spacing screws below the mounting ring can be adjusted to provide additional height of several more millimeters.
5. Third party mounting bracket can be used with this sensor to raise to other desired heights just like the one shown in the figure 2 and 3.

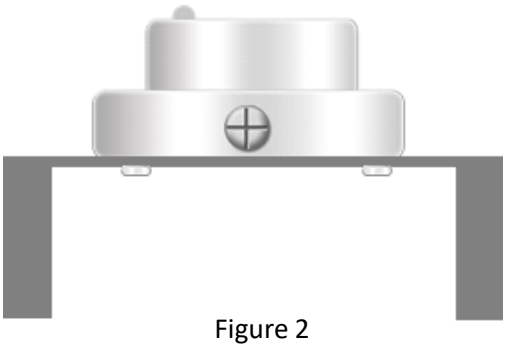


Figure 2

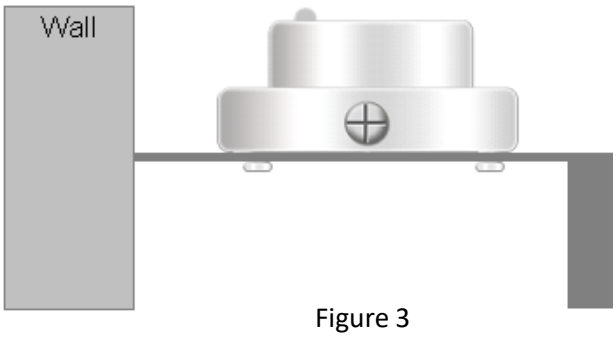


Figure 3

WIRING INSTRUCTIONS

Example 1: Figure 4 shows the connection of one unit of SP-12 to REX

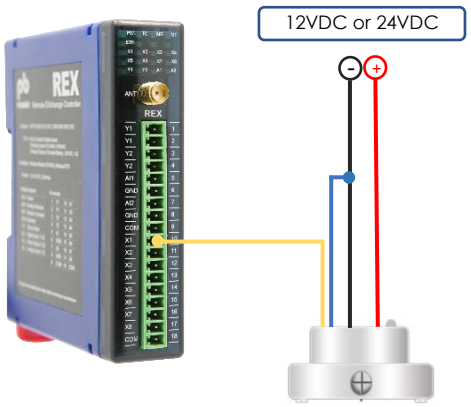


Figure 4

Example 2: Figure 5 shows the connection of one unit of SP-12 to FMG

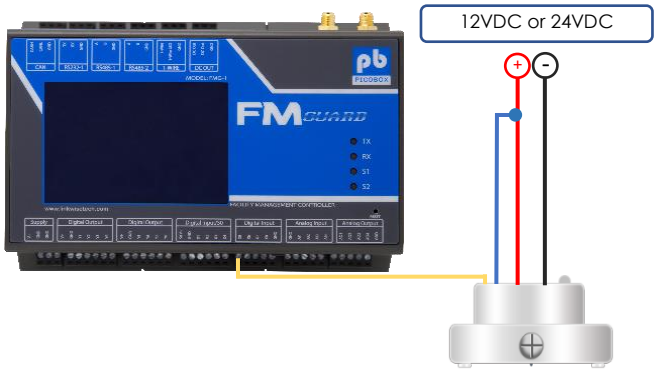


Figure 5

Note: During operation, device may become hot