

Parameters

Electrical Parameters:

PieroNet power supply	12-30V DC
Static power consumption	40mA/24V DC
Dynamic power consumption	90mA/24V DC
IR transmit frequency	38kHz
IR emission distance	4m
Illumination detection range	0-5000Lux
PIR sensing range in diameter	6m (install height-3m)
Ultrasonic sensor in diameter	8m

Environmental Conditions:

Working temperature	-5°-45°C
Working relative humidity	Up to 90%
Storage temperature	-20°-+60°C
Storage relative humidity	Up to 93%

Approved:

CE, RoHS

Product Information:

Dimensions	110(Diameter)×33(mm)
Net weight	206.7(g)
Housing material	Lens, ABS
Installation	Ceiling mount
Protection rating	IP20

Important Notes

- Installation Location — If use PIR function indoor, please keep it away from AC outlets and heat source.
- Environment temperature — if use PIR function, please make sure the temperature is below 36°C.
- Detect target — PIR only can detect moving objects with heat radiation like human, animal, ultrasonic can detect all moving objects.
- PieroNet cable — CAT5E or PieroNet cable.
- PieroNet connection — Series connection (hand-in-hand).
- Installation — Indoor and ceiling-mount, keep it away from AC outlet.



Safety Precautions

- Do not make wrong connection on PieroNet interface, it will damage the PieroNet interface of this module.
- Do not get AC power into PieroNet wire, it will damage all devices in the system.
- Avoid contact with liquids or corrosive gases.
- Ensure good ventilation.

Overview



SENSE-12IN1 12 in 1 sensor includes temperature sensor, PIR motion sensor, LUX sensor, ultrasonic sensor, dry contacts, IR received, IR emitter, 2-channel 5A relay output and logic block.

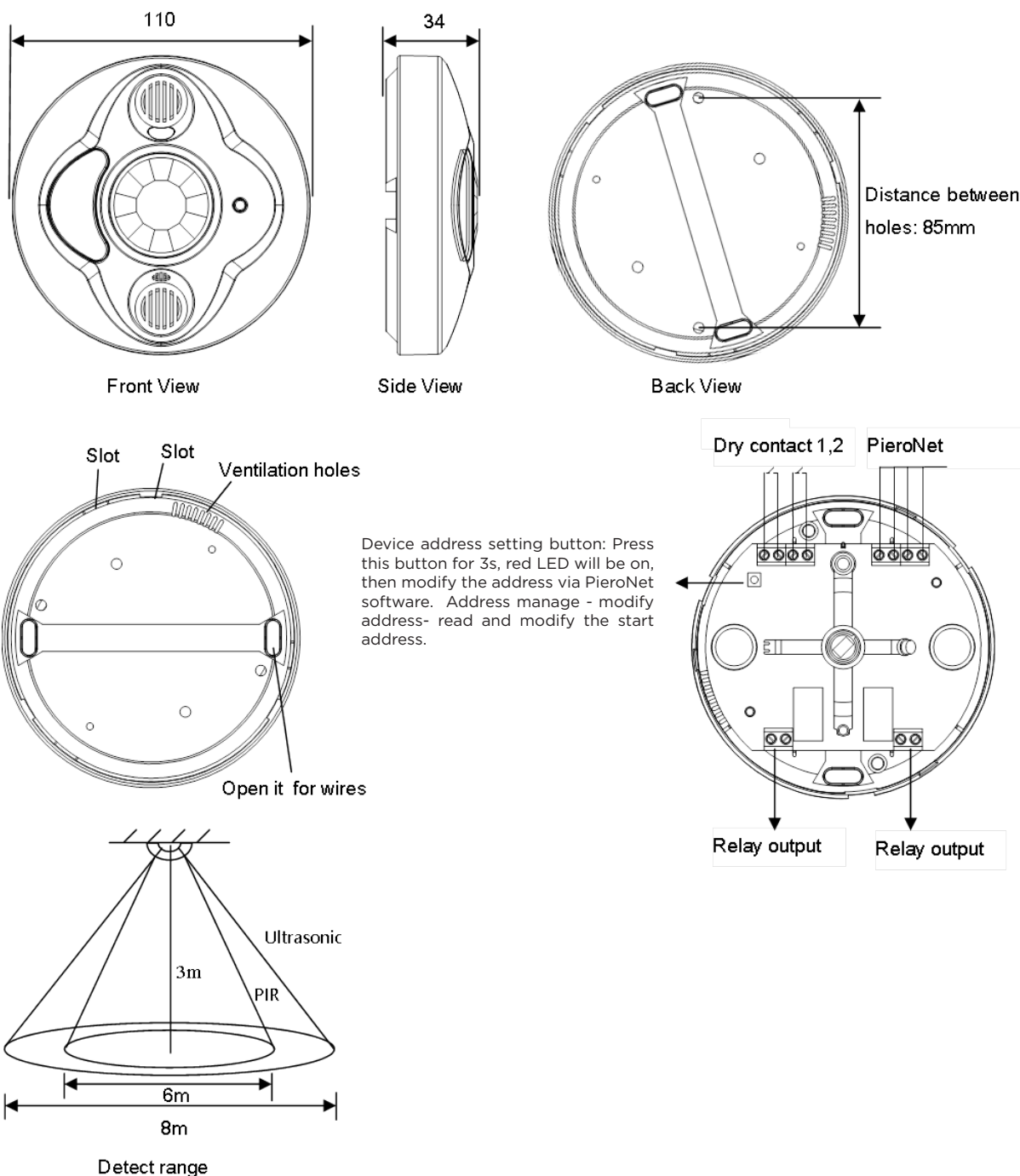
Functions

- Temperature, LUX, PIR motion, ultrasonic, 2 dry contact inputs, 2 external inputs, logic, total 9 inputs.
- 2-channel 5A Relay output.
- Build PID for constant LUX control.
- Supports upgrade from PieroNet.

PieroNet Cable Guide

CAT5/CAT5E	PieroNet
Brown/ Orange	24V DC
Brown white / Orange white	COM
Blue white / Green white	DATA-
Blue / Green	DATA+

Dimensions and Wiring



Package Contents

SENSE-12IN1, Datasheet x1