

Parameters

Electrical Parameters:	
Buspro 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°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+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.
- Buspro cable — CAT5E or HDL Buspro/KNX cable.
- Buspro 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 Buspro interface, it will damage the Buspro interface of this module.
- Do not get AC power into Buspro wire, it will damage all devices in the system.
- Avoid contact with liquids or corrosive gases.
- Ensure good ventilation.

Overview



HDL-MS12.2C 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. The logic block can combine all sensors for different applications. It supports HDL security mode and command.

Functions

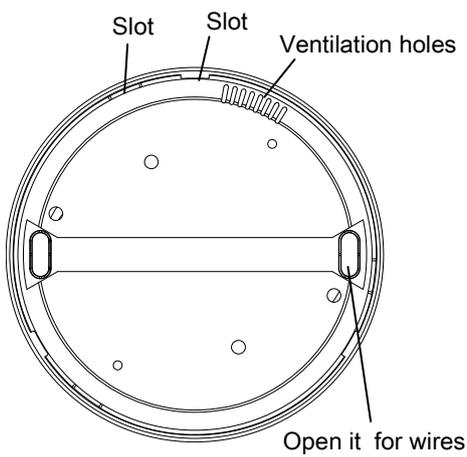
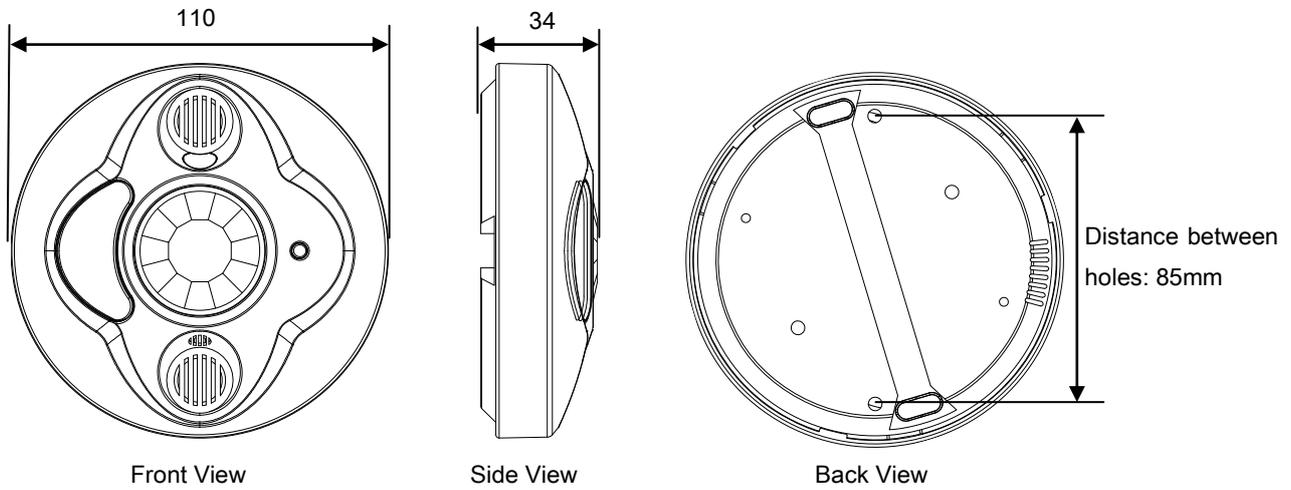
- Temperature, LUX, PIR motion, ultrasonic, 2 dry contact inputs, 2 external inputs, logic, totally 9 inputs.
- 2 logic Relations: OR, AND.
- 24 logic blocks function, maximum 9 logic inputs, up to 20 control targets in each logic block.
- 2-channel 5A Relay output.
- Build PID for constant LUX control.
- Up to 40 IR receiving control target.
- Up to 240 IR sending control target.
- Maximum 24 programmable logic blocks.
- Each logical block has target set-up action and target Unset-up action, target triggering delay settings.
- The power-on logic status settings are Last status recall, Compulsory to be set up, Compulsive to be unfounded, No action
- Security function, to be used with the security module.
- Supports upgrade from HDL Buspro.

HDL Buspro Cable Guide

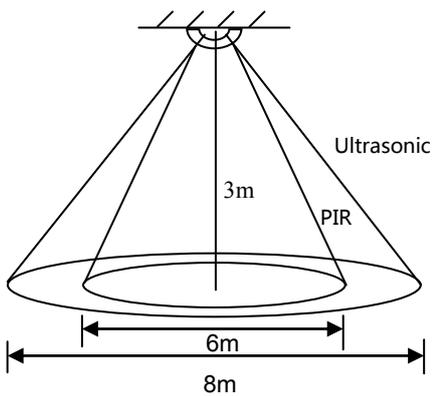
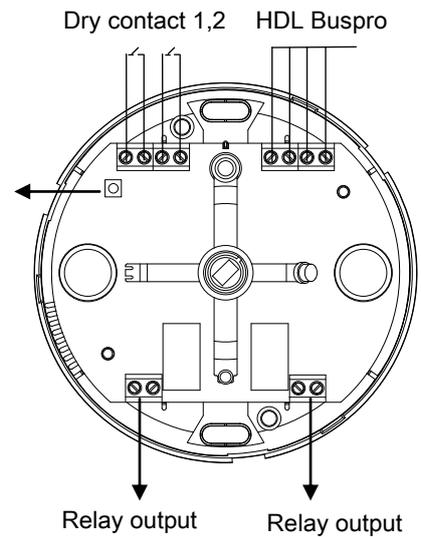
CAT5/CAT5E	HDL Buspro	HDL Buspro/KNX
Brown/ Orange	24V DC	Red
Brown white/ Orange white	COM	Black
Blue white/Green white	DATA-	White
Blue/ Green	DATA+	Yellow



Dimensions and Wiring



Device address setting button:
Press this button for 3s, red LED will be on, then modify the address via HDL Buspro software. Address manage → modify address, read and modify the start address.



Detect range

Package Contents

■ Datasheet	×1
■ HDL-MS12.2C	×1
■ Warranty card	×1