Parameters

Performance Parameters:	
Working power	21~30VDC
BUS interface	KNX/EIB
Dynamic current	< 15mA
Static current	< 10mA
KNX terminals	(Red /Black) 0.75 – 0.85mm Diameter Single-Core
Environmental Conditions:	
Working temperature	0℃~45℃
Working relative humidity	40%~90%
Storage temperature	-20℃~+60℃
Storage relative humidity	10%~93%
Approved:	
CE	
KNX	
Production Information :	
Dimension	63(Diameter)×46.6(mm)
Net weight	42.4g
Housing Material	ABS
Installation	Ceiling mounted
Ultrasonic sensing range in diameter	8m (installation height-3m)
IP Protection	IP20

Important Notes

- **Special Programming** – This device is designed for professional KNX installation. It must be programmed by ETS software.
- **Cable Connections** – Do not get wrong connection for Black and Red wires.
- **Voltage** - The input of voltage must be between 21-30VDC.
- **Mounting Location** –Installed indoors, to avoid installed near the air-conditioning vent.

Installation Step

- Mount the device into thin ceiling or special back box.
- KNX/EIB cable connection.
- Make sure the connection is right.

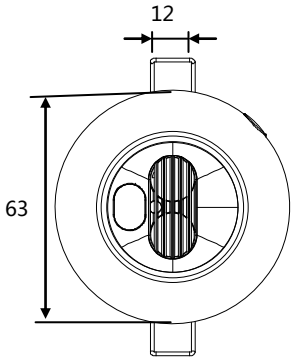
Overview

HDL KNX-M/US05.1 includes 4 independent logic blocks and 1 combined logic block. The logic condition can be “AND”“OR” logic input conditions, can be the condition of ultrasonic sensor, Lux, external conditions. According to different application requirements, the sensor can be configured the master-slave mode or single mode.

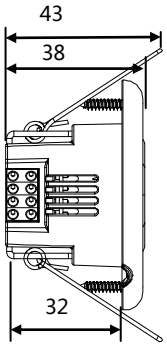
Functions

- The multi-function sensor includes ultrasonic sensor, LUX detection, and external telegram detection.
- The multi-function motion sensor has 5 logic function blocks and can be set the logical relation AND/OR. Each has 10 output objects. The work mode include single mode and Master & Slave mode.
- The multi-function motion sensor can report movement status, Lux status to KNX system.
- The multi-function motion sensor supports constant brightness output.
- The recommended assembly height is 2 m – 3m. When the sensitivity of the detector reduces, the assembly height should increase.
- It can controls for Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control , Sequence control, Scene control, String control, Logic combination control.
- With function of constant brightness: keep the Lux in the constant value, will dim the lights to the corresponding intensity according to the surrounding brightness.

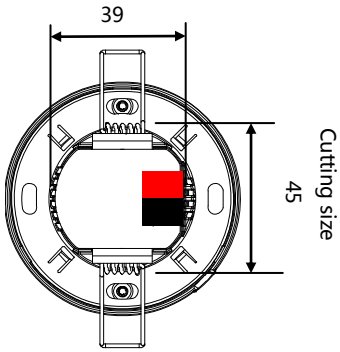
Layout and Wiring



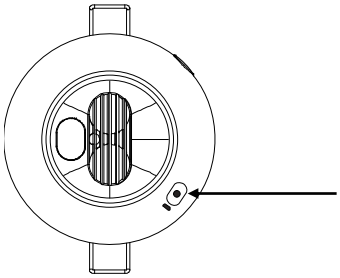
Front view



Side view



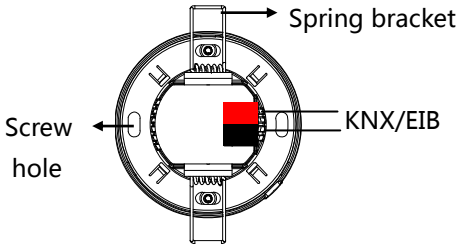
Back view



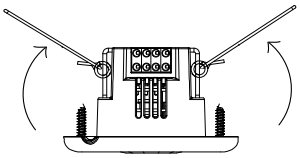
Programming button

Programming LED: LED will on when is programming.

Interior design



Back View



Spring bracket installation

Spring bracket installation: it is used to install the sensor into thin ceiling, wooden boards etc, make a round hole with diameter of 45mm, then fasten it with the spring bracket.

Screw installation: it is used to install the sensor into special back box, thick wall or wooden ceiling that cannot use spring bracket. You must remove the spring bracket when install the sensor by screw.

Safety attention

WARNING

- Screw down strength should not exceed 0.2Nm.
- Do not get wrong connection on positive and negative for the bus cable.
- Avoid contact with liquids and corrosive gases.
- Do not get AC voltage into Bus wire , it will damage all devices in the system.