### Parameters

**Electrical parameters**
- **Working power**: 21~30VDC
- **BUS interface**: KNX/EIB
- **Dynamic current**: < 15mA
- **Static current**: < 10mA
- **KNX terminals**: (Red / Grey) 0.6 – 0.8mm Diameter Single-Core cable

**Environmental Conditions**
- **Working temperature**: -5℃~45℃
- **Working relative humidity**: Up to 90%
- **Storage temperature**: -20℃~+60℃
- **Storage relative humidity**: Up to 93%

**Approved**
- CE, RoHS
- KNX

**Product information**
- **Dimensions**: 63(Diameter)×38(mm)
- **Net weight**: 42.4g
- **Housing Material**: ABS
- **Installation**: Ceiling mounted
- **Ultrasonic sensing range in diameter**: 8m (install height-3m)
- **IP rating**: IP20

### 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 as the master-slave mode or single mode.

### Functions

- The multi-function sensor include ultrasonic sensor, LUX detection, and external telegram detection.
- The multi-function motion sensor have 5 logic function blocks and can be set the logical relation AND/OR, Each with 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. The sensitivity of the detector reduces as the assembly height increases.
- 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.
- The logic validity can be set by external telegram, enable end-user to enable or disable the preset logics.
Layout and Wirings

- Screw down strength is less than 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.

Safety Precautions

| 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. |

Spring bracket installation:

Back View

Back View

Back View

Front view

Side view

Back view

Programming button
Programming LED: LED will on when programming.