HDL®

Datasheet

Parameters

Electrical Parameters:

Working voltage	DC12－30V
Buspro power consumption	21mA/DC24V
Carrier frequency	(old) 433.1580MHz
	(new) 433.92MHz
Receive sensitivity	-90db
Buspro terminal	0.75-0.85mm 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

Product Information:

Dimensions	63(D)×52(mm)
Weight	70g
Housing material	ABS
Installation	Ceiling mount
Protection	IP20

Types of the remote control:

HDL-MWRT12	Old
HDL-MTIRW	New, Old
HDL-MP2N-RF.18	New

HDL Buspro Definition for Cable

CAT5/CAT5E	HDL Buspro	HDL Buspro/KNX
Brown/ Orange	DC24V	Red
Brown white/ Orange white	COM	Black
Blue white/ Green white	DATA-	White
Blue/ Green	DATA+	Yellow

Installation Steps

- According to the installation position, select the installation way.
- If choose the screw installation, you should remove the spring bracket from the sensor.
- Check the HDL Buspro connection, avoid any mistake

Overview

HDL-MRF16.4C is a 433M RF gateway which works with RF remote controller , such as HDL-MWRT12(100m), HDL-MTIRW(100m), HDL-MP2N-RF.18 (outdoor: 80m; indoor: 30m). After setting from HDL Buspro setup software, you can control the target by controller.
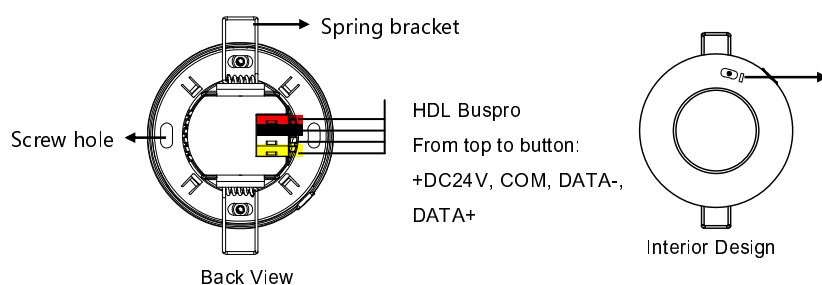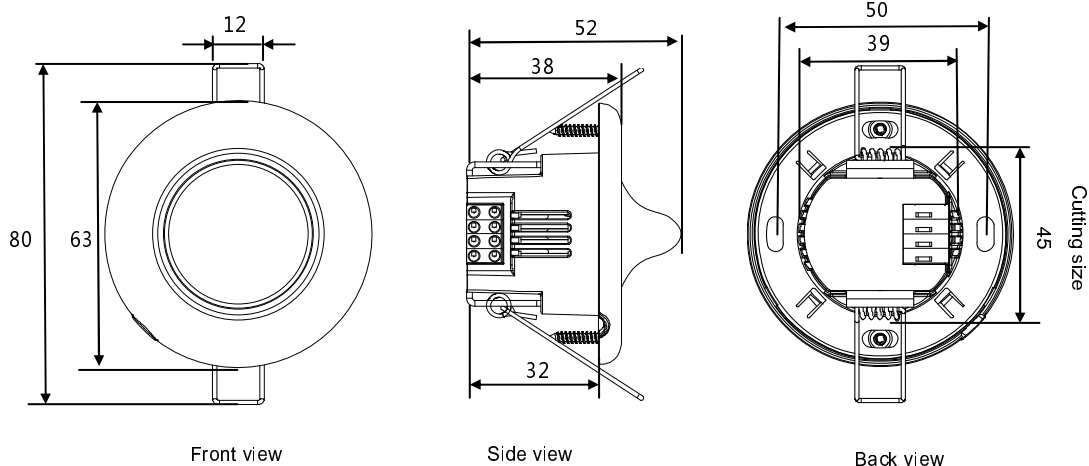
Functions

- RF receiver functions: It supports 8 remote controllers and their addresses are different. It can also read the controller address from programming mode.
- Control targets: Scene, sequence, universal switch, single channel lighting control, broadcast scene, broadcast channel, etc.
- Supports 433.1580MHz and 433.92MHz for old and new remote controller.
- Remote control button mode: Single on/off; single on, single off, combination on, combination off, combination on/off, etc.
- Combination button can control up to 15 targets.
- Each remote controller has 6x8 control buttons.
- Communication: HDL Buspro.

Important Notes

- **Buspro cable -** HDL Buspro/KNX cable, 0.8mm single-core copper cable.
- **Buspro connection -** Series connection (hand-in-hand).
- **Installation position** – In order to ensure the receiving, please install in the suitable position.
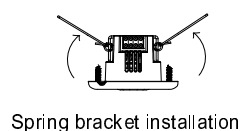
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Dimensions and Wiring

12

80 | 63

Front view

52

38

32

Side view

50

39

45

Cutting size

Back view

Spring bracket

Screw hole

HDL Buspro
From top to button:
+DC24V, COM, DATA-,
DATA+

Back View

Interior Design

Push Button: Keep pressing it for 3 seconds, LED indicator will flash, it can read and modify the module address from the HDL Bus Pro set up software.

LED Indicator :
When the type is changed or it receives the RF signal, LED will flash one time.

Spring bracket installation

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

Safety precaution ⚠ WARNING

- The screw down strength should not exceed 0.4Nm
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module.
- Never let liquids get into the module, it will damage this device.
- Do not get AC power into Bus wire , it will damage all devices in the system.

Packing list

- HDL-MRF16.4C*1
- Datasheet*1

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