

Parameters

Electric Parameters:	
Working power	DC24V
Static BUS power consumption	30mA/DC24V
Dynamic BUS power consumption	350mA/DC24V
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	
Production Information:	
Dimensions	144×90×66 (mm)
Weight	465.5g
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection degree	IP20

Installation Step

- Mount the device on the DIN rail inside the DB Box.
- Mark up each channel.
- Connect the load and HDL Buspro, check if there is any short circuit in output connection cable.
- Check the HDL Buspro connection, avoid any mistake.
- Make up each output connection cable, separate high power and low power cable.

HDL Buspro Definition for Cable

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

Overview



SB-DN-HMIX20 It has 20 Channels. This module needs to work with SB-DN-48HNET Hotel Host.

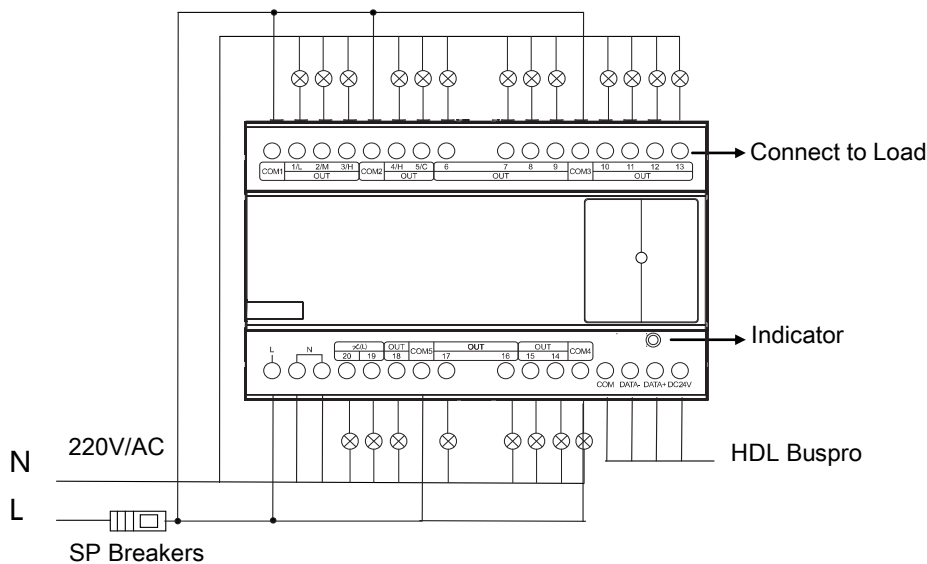
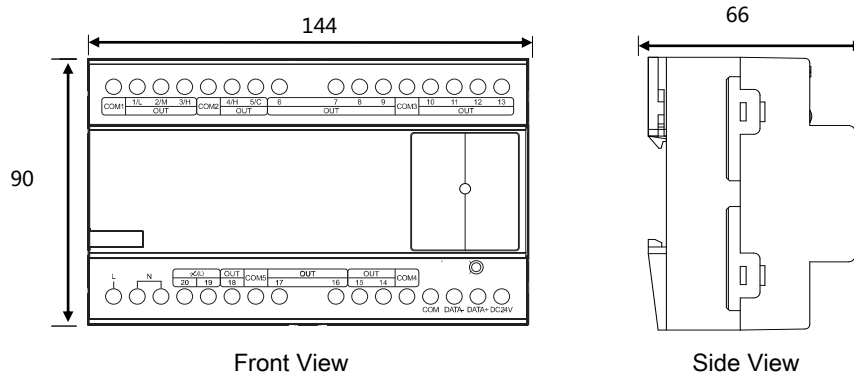
Functions

- Channel 1 to 5 are normal FCU controls, such as controls on cooling, heating and fan speeds. channel 1,2 and 3 controls fan speed, channel 4,5 is cooling and heating valves.
- Channel 6 to 15 are ordinary relay outputs. Channel 14 and 15 are 10A rated outputs. And the rest of the channels are 5A rated outputs. The load types are Incandescent lamp ,Halogen lamp. It is not recommend connect to capacitive load.
- Channel 16 to 18 are silicon-controlled rectifier outputs. They are used as switch outputs (not for dimming). Each channel is 2 A rated output.
- Channel 19 to 20 are silicon-controlled rectifier outputs. .Each channel is 2A rated output.

Important Notes

- Bus cable – Cat5E or HDL Buspro/KNX cable, 0.8mm single core copper cable
- Connection checking – Check all connection after installation
- Relay channel – incandescent lamp, halogen lamp. Not more than 4 fluorescent lamp ballast
- **Channel No.16~19 are TRIAC channels, need to connect a aR fuse for protection**
- Connect with breakers of fuses for relay module

Dimensions and Wiring



Indicator: flickers when the module is working properly. Keep pressing for 3 seconds, it can be read and modify the start address in the HDL-Hotel Room Intelligent System Manage Software.

Notice: This Mix module can only work with hotel host.

Safety attention

- Connect with breakers or fuses for relay channels
- The screw down strength should not exceed 0.4Nm
- AC Power Supply Cable: 1.5mm² ~2.5mm²
- Load cable: 1.5mm² ~2.5mm²
- Installation: Inside DB Box
- Do not make wrong connection on HDL Buspro interface, it will damage the Bus interface of this module
- Do not get AC power into Bus wire, it will damage all devices in the system
- Avoid contact with liquids and corrosive gases