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Since 1985

PRODUCT CATALOG
HDL-BUS KNX/EIB

Lighting · Power · HVAC · BMS · Media · User interface · Communication
· Integration · Power line · Metering · Security and Safety · GRMS

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Beijing Great Hall of the People

1995-2012

Provide over 95% stage lighting control system and intelligent illuminating control system

Reconstruction project of indoor illuminating system of Beijing Great Hall of the People has a history of ten years, and the intelligent illuminating system after the reconstruction has more than 6000 environment lighting and stage lighting circuits and more than 20000 light fixtures, which is nowadays the indoor intelligent illuminating lighting reconstruction project with the largest scale in China.

HDL is one of the main control equipment suppliers and project undertakers for the intelligent reconstruction project of indoor illuminating system of Beijing Great Hall of the People.

The building area of the great hall of the people is 171,800 square meters, which is two or three times the area of common buildings, with a higher energy consumption. Limited by the energy-saving technology and techniques in the past years and affected by the structure and functions, its energy consumption is higher than that of the common large-scale buildings. The application of HDL energy-saving illuminating control system can provide the powerful guarantee for the great hall of the people to realize the new target of energy conservation and emission reduction.

BMW WORLD MUSEUM IN GERMANY

Tradition and innovation
emotion and reason
power and aesthetics
the perfect combination of unique and open

BMW Museum Center, it is symbol of Munich, Germany. The Museum is located at the side of Olympic Park and it is a Energy Saving & Multi Function Building. It shows a feeling that not only exhibit the cars, but also the culture between the cars and human being. Inside the building, except a huge Exhibition hall for the BMW cars, it also has Dinning Room、Coffee house、Club、Design Studio、Gallery and Rostrum for Young Man. Banquet and Concert will be performed here at some important festival.

As the Design and Construction Company for the Intelligent Control System of BMW Center, Eventa AG Ltd and HDL apply HDL Intelligent Lighting Control System, by using EMS Software and System Program Software to control and manage the whole system. Motion sensor installed in Rest Room and Corridor, in case of movement by human being, the lights will be turned on automatically; after somebody leave, the lights will be turned off auto. This is a conception of Energy Saving and Intelligent Control. In other areas, different scene of lights are pre-programmed and will be change according to the real circumstance. And also lights and other system can be triggered by Motion Detect and system designate. All this is under control of Logic.
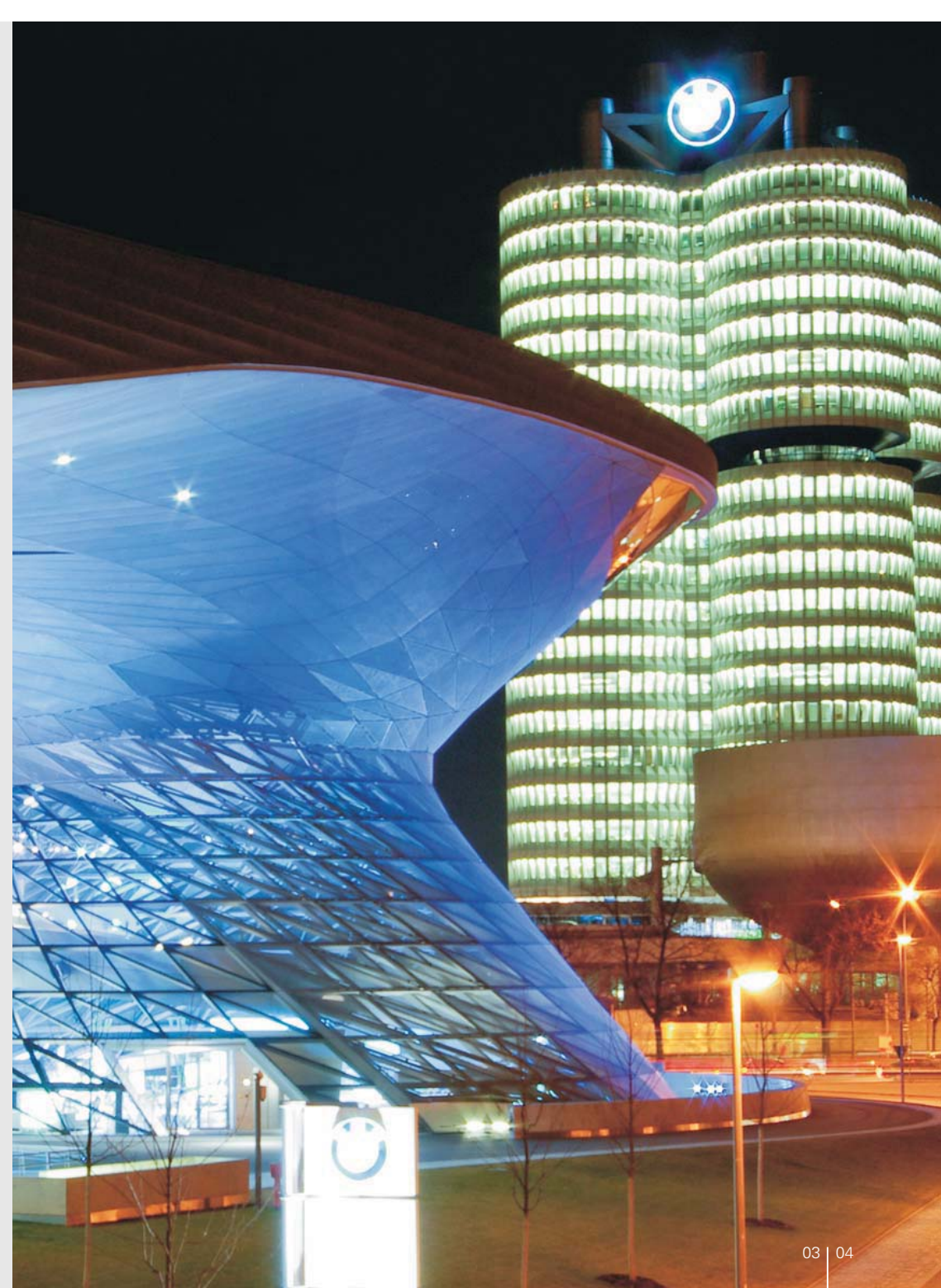
Office Building

Office

Meeting Room

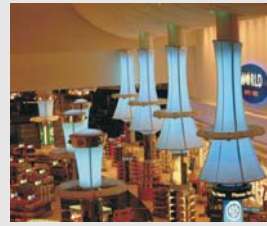Studio

School Library

Exhibition Center

Shopping Center

Shopping Store

Book Store

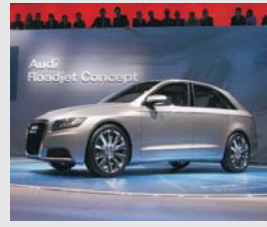Amusement park

Museum

SPA Center

Hotel Room

Hotel Lobby

Auto Show

Show Room

Cinema

Sports Center

Building Outside Lighting
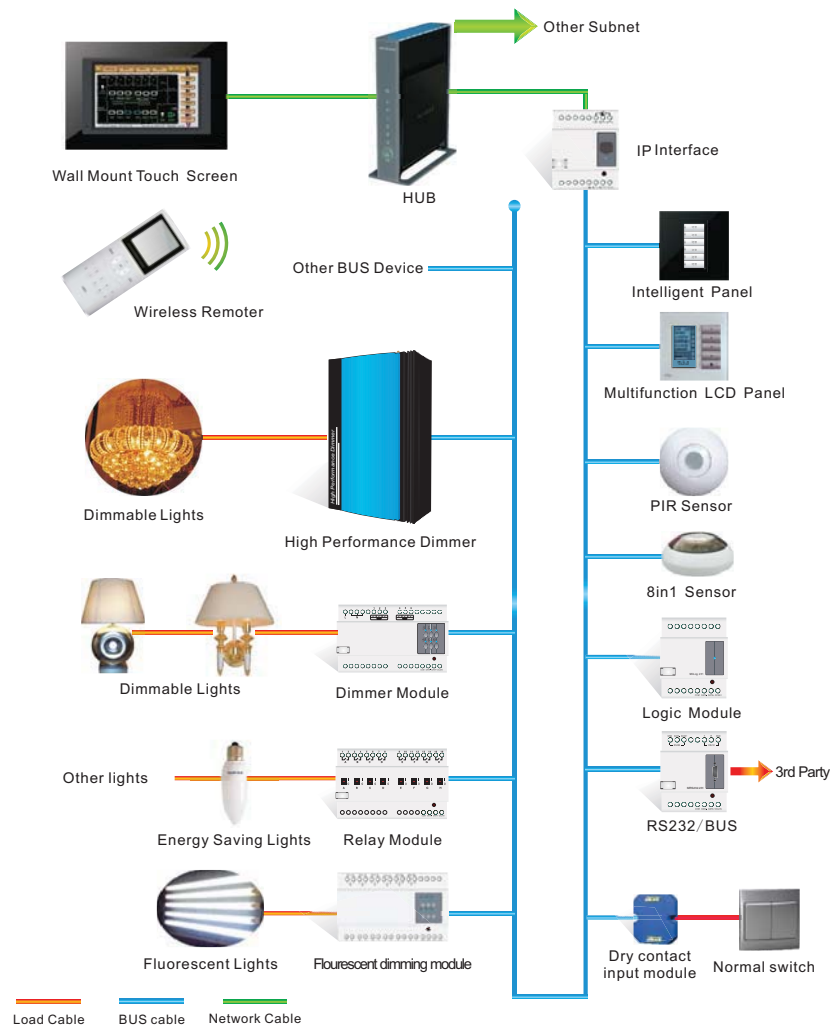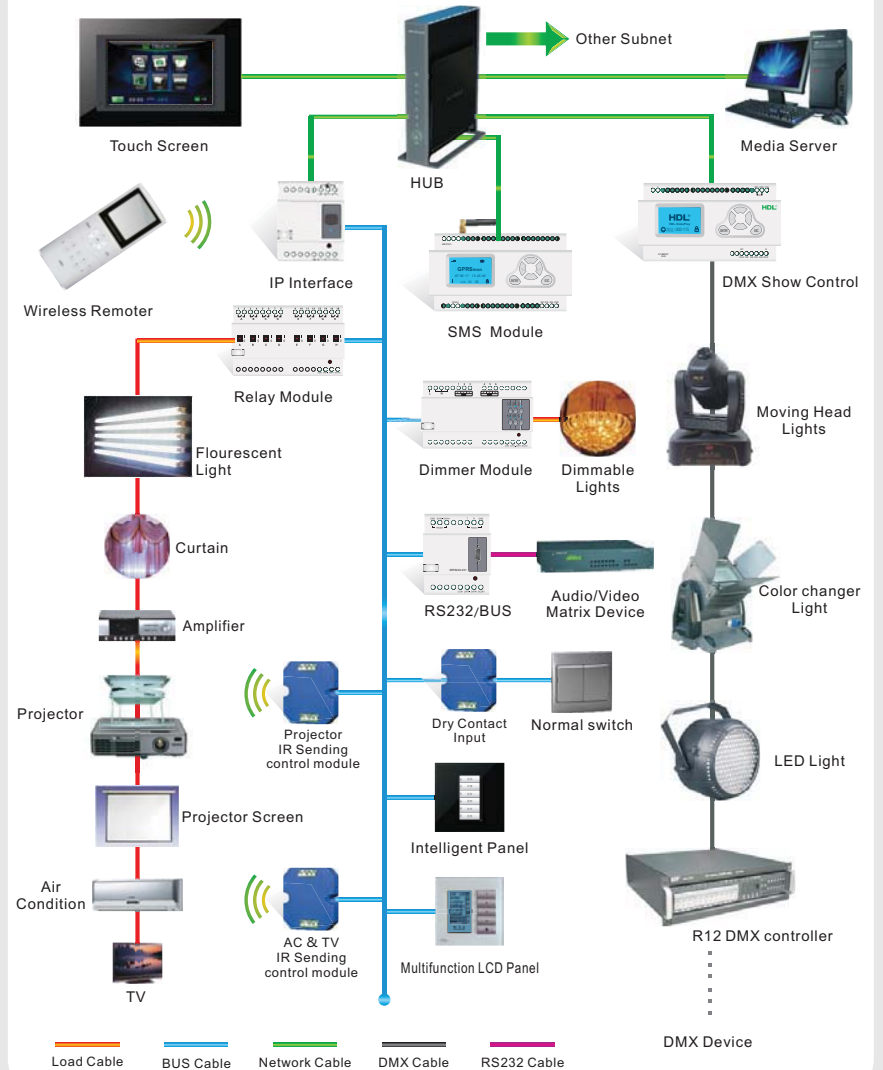

Super Market

Factory

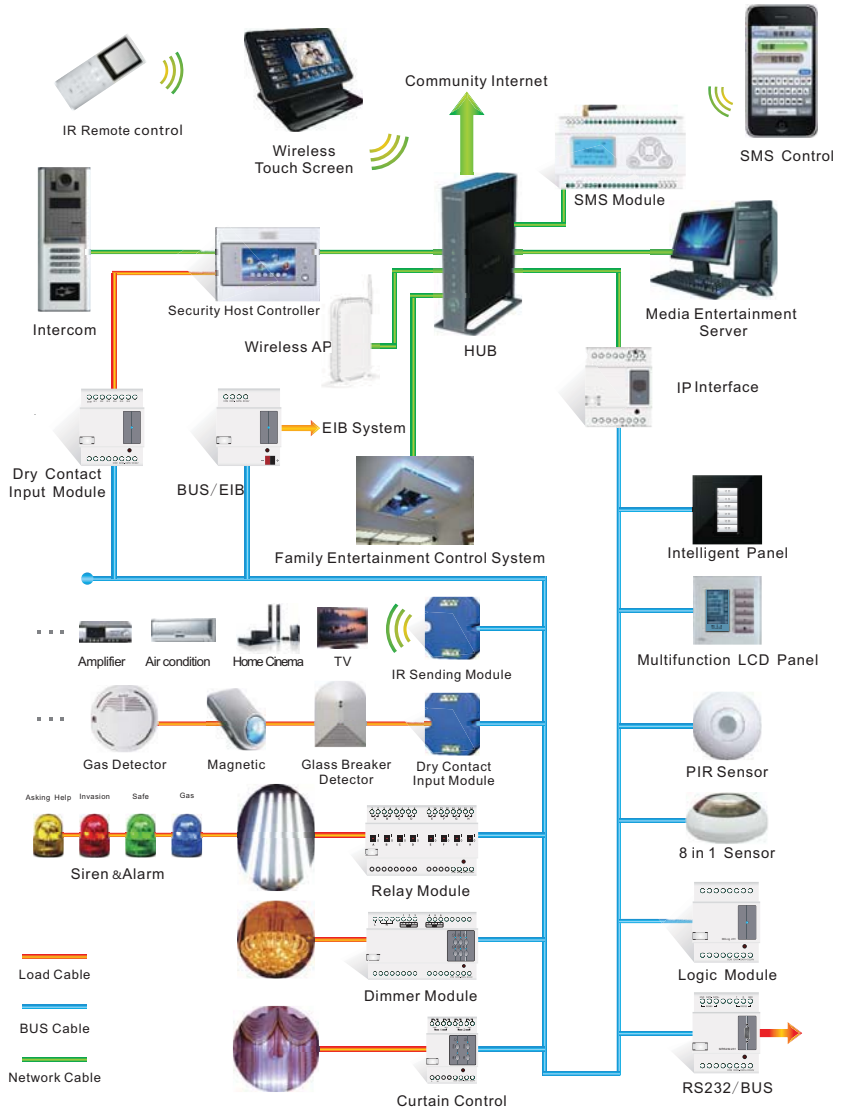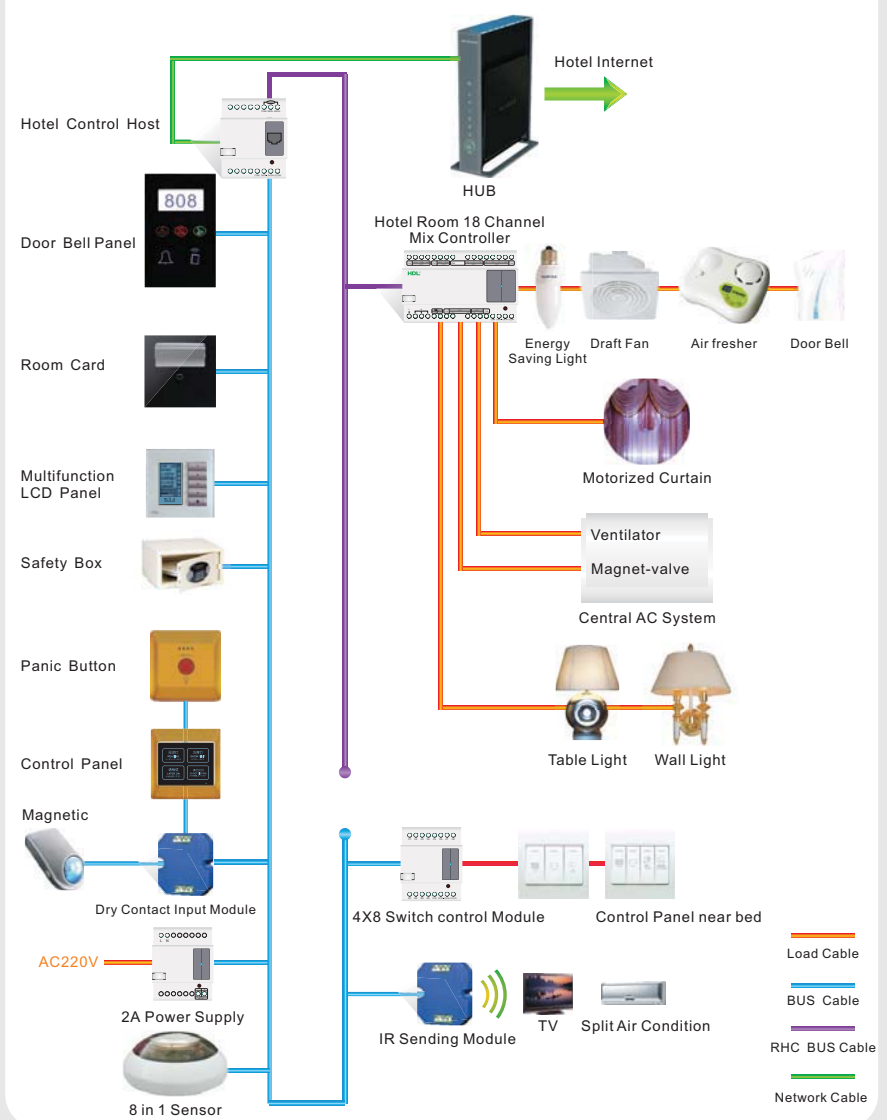
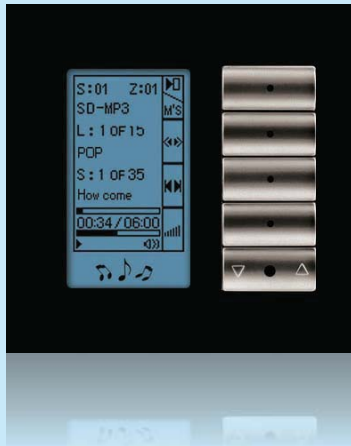Parking Area

DMX Show

Restaurant

Lighting control solution

Wall Mount Touch Screen

HUB

Other Subnet

IP Interface

Wireless Remoter

Other BUS Device

Dimmable Lights

High Performance Dimmer

Intelligent Panel

Multifunction LCD Panel

PIR Sensor

8in1 Sensor

Dimmable Lights

Dimmer Module

Logic Module

RS232 / BUS

3rd Party

Other lights

Energy Saving Lights

Relay Module

Fluorescent Lights

Flourescent dimming module

Dry contact input module

Normal switch

Load Cable   BUS cable   Network Cable

Show Room solution

Touch Screen

HUB

Other Subnet

Media Server

IP Interface

Wireless Remoter

SMS Module

DMX Show Control

Relay Module

Flourescent Light

Dimmer Module   Dimmable Lights

Moving Head Lights

Curtain

RS232/BUS

Audio/Video Matrix Device

Color changer Light

Amplifier

Projector

Projector IR Sending control module

Dry Contact Input   Normal switch

LED Light

Projector Screen

Intelligent Panel

Air Condition

AC & TV IR Sending control module

Multifunction LCD Panel

R12 DMX controller

TV

DMX Device

Load Cable   BUS Cable   Network Cable   DMX Cable   RS232 Cable

Home Automation solution

IR Remote control

Wireless Touch Screen

Community Internet

SMS Control

SMS Module

Intercom

Security Host Controller

Wireless AP

HUB

Media Entertainment Server

IP Interface

Dry Contact Input Module

BUS/EIB

EIB System

Family Entertainment Control System

Intelligent Panel

Multifunction LCD Panel

Amplifier

Air condition

Home Cinema

TV

IR Sending Module

Gas Detector

Magnetic

Glass Breaker Detector

Dry Contact Input Module

PIR Sensor

Asking Help   Invasion   Safe   Gas

Siren & Alarm

Relay Module

8 in 1 Sensor

Dimmer Module

Logic Module

Load Cable

BUS Cable

Network Cable

Curtain Control

RS232/BUS

Intelligent Hotel Solution

Hotel Control Host

Hotel Internet

HUB

Hotel Room 18 Channel Mix Controller

Door Bell Panel

808

Energy Saving Light

Draft Fan

Air fresher

Door Bell

Room Card

Motorized Curtain

Multifunction LCD Panel

Ventilator

Magnet-valve

Safety Box

Central AC System

Panic Button

Control Panel

Table Light

Wall Light

Magnetic

Dry Contact Input Module

4X8 Switch control Module

Control Panel near bed

AC220V

2A Power Supply

IR Sending Module

TV

Split Air Condition

8 in 1 Sensor

Load Cable

BUS Cable

RHC BUS Cable

Network Cable

KNX−DLP
Multifunction LCD Switch
HDL-M/DLP05.1
Panel

Description

HDL KNX / EIB Multi page- and function LCD Panels are in full compliance with European safety standards and the KNX association protocol..

Our elegant panels have high-resolution dot matrix LCD displays, rubber keys with moderate intensity and background lights. Choose between different colors and finishes – and your own user-friendly graphics. The simple to use Multi control pages are for: Lighting Control、Curtain Control、Heating Control、Clock、Air-Conditioning、Back Ground Music play and streaming… . And for other functionality.With a Built-in mini infrared receiver and the ability to send a variety of data information, the panels will control different types of KNX devices.

HDL provides application solutions for Smart Home and Building Control. Our ambition is to become a leading Global supplier by taking very seriously the challenges of delivering products protecting the Environment and the conservation of Energy to enhance a high quality, intelligent lifestyle.

Parameters

· Working Voltage   21-30 V DC
· Static Current   < 25 mA
· Infrared Receive Function

Features

· Switch Control
· Dimming Control
· Curtain Control
· Shutter Control
· Scene Control
· Sequence Control
· Percentage Control (Absolute value for Dimming)
· String Control
· Combination Control
· Heating Control
· Air Condition Control
· Timer Control
· Back Ground Music Control

Additional Function

· Back Light Adjustable
· Night Mode
· Infrared Remoter Control
· Remote Lock for key
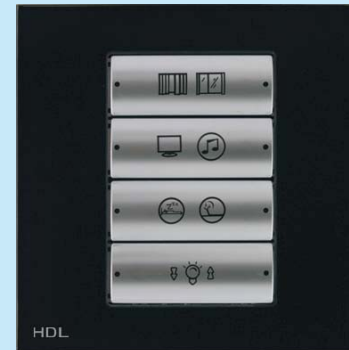· Remote Control
· Delay Control
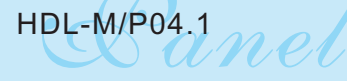
Optional Material
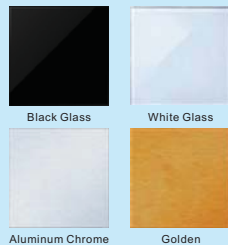
Black Glass   White Glass

Aluminum Chrome   Golden

4 Buttons
Multifunction Switch
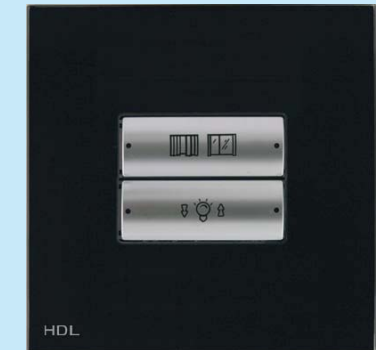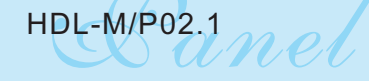### HDL-M/P04.1
Panel

Parameters

· Working Voltage   21-30 V DC
· Static Current   < 25 mA
· Infrared Receive Function

Additional Function

· Back Light Adjustable
· Night Mode
· Infrared Remoter Control
· Remote Lock for key
· Remote Control
· Delay Control

2 Buttons
Multifunction Switch
HDL-M/P02.1
Panel

Features

· Switch Control
· Dimming Control
· Curtain Control
· Shutter Control
· Scene Control
· Sequence Control
· Percentage Control
  (Absolute value for Dimming)
· String Control
· Combination Control
· Heating Control
· Air Condition Control
· Timer Control
· Back Ground Music Control

HDL KNX/EIB-BUS

Features

· Main Function
· Statistical functions for running time of Channel
· Channel status response
· 1-On/off status can be set when Power-Down or Power up
· Timer Function
· Scene Control
· Threshold Function
· Curtain Control function
· Logic Function: And, Or, Xor, Gate
· Heating Function: PWM control output

HDL / KNX-EIB BUS relay series products are fully comply with European safety standards and protocols for High-power switching KNX equipment, internal use of 50A High-current magnetic relays, zero power consumption and long life are the features of it.

It is widely used in Airports, Metro, Sports, Parks, Building Facades, Roads, Entertainment, Public Roads, industrial Lighting control and other fields where switch control is needed.

HDL provides application solutions in the Smart Home and Building Control applications with the World leading level, Green, Environmental Protection, Energy Conservation for the purpose to create a high quality of life as the ultimate goal of intelligent.

4 Channel 16A Relay Module
HDL-M/R04.16.1

Parameter

· Working Voltage(Power Consumption): 21-30V DC
· Dynamic Current: <15mA
· Static Current: <5mA
· Dynamic Power Consumption: <450mW
· Static Power Consumption: <150mW
· Output Current: 16A
· Maximum output current: 20A
· Rated voltage: 250V AC(50/60Hz)
· Output Channel : 4 relay channels
· Electrical life time: >10000
· Mechanical life time: >100000

8 Channel 16A Relay Module
HDL-M/R08.16.1

Parameter

· Working Voltage(Power Consumption): 21-30V DC
· Dynamic Current: <15mA
· Static Current: <5mA
· Dynamic Power Consumption: <450mW
· Static Power Consumption: <150mW
· Output Current: 16A
· Maximum output current: 20A
· Rated voltage: 250V AC(50/60Hz)
· Output Channel : 8 relay channels
· Electrical life time: >10000
· Mechanical life time: >100000

12 Channel 16A Relay Module
HDL-M/R12.16.1

Parameter

· Working Voltage(Power Consumption): 21-30V DC
· Dynamic Current: <5mA
· Static Current: <15mA
· Dynamic Power Consumption: <450mW
· Static Power Consumption: <150mW
· Output Current: 16A
· Maximum output current: 20A
· Rated voltage: 250V AC(50/60Hz)
· Output Channel : 12 relay channels
· Electrical life time: >10000
· Mechanical life time: >100000

HDL KNX/EIB-BUS
Features

· Statistics Total ON Time
· Status Response
· Power Down or Power On Status Setup
· Status Remains after Power On
· Staircase Light Function
· Flashing Light Function
· Scene Control
· Threshold Control
· Curtain Control
· On Delay , OFF Delay , Protection Delay
· Logic Relation: AND, OR, XOR, GATE
· Heating Control · PWM Output

HDL KNX / EIB series products for Actuators are fully complying with European safety standards and KNX association protocol. It's to be used as a high power on/off control device. Zero power consumption and Long life time are the mainly features for the Internal used 16A high current Relay unit.

The KNX/EIB actuators can be used in variety applications such as Air Port, Metro Station, Sports Center, Park, Building Wall, Public area, Street, and other areas which on/off and lighting control are needed.

HDL provides application solutions for the Smart Home and Building Control applications with the World leading level, Green, Environmental Protection, Energy Conservation, for the purpose of creating a high quality of life as the ultimate goal of intelligent.

4 Channel 10A Relay Module
HDL-M/R04.10.1

Parameter

|	
· Working Voltage	21-30 V DC
· Dynamic Current	< 15 mA
· Static Current	< 5 mA
· Dynamic Power Consumption	< 450 mW
· Static Power Consumption	< 150 mW
· Output Current	10 A
· Max Output Current	20A
· Rated Voltage	250V AC (50/60 Hz)
· Electrical Lifetime	> 100000
· Mechanical Lifetime	> 1000000

8 Channel 10A Relay Module
HDL-M/R08.10.1

Parameter

· Working Voltage	21-30 V DC
· Dynamic Current	< 15 mA
· Static Current	< 5 mA
· Dynamic Power Consumption	< 450 mW
· Static Power Consumption	< 150 mW
· Output Current	10 A
· Max Output Current	20A
· Rated Voltage	250V AC (50/60 Hz)
· Electrical Lifetime	> 100000
· Mechanical Lifetime	> 1000000

12 Channel 10A Relay Module
HDL-M/R12.10.1

Parameter

· Working Voltage	21-30 V DC
· Dynamic Current	< 15 mA
· Static Current	< 5 mA
· Dynamic Power Consumption	< 450 mW
· Static Power Consumption	< 150 mW
· Output Current	10 A
· Max Output Current	20A
· Rated Voltage	250V AC (50/60 Hz)
· Electrical Lifetime	> 100000
· Mechanical Lifetime	> 1000000

HDL KNX/EIB-BUS
Features

· Statistics total ON time
· Status Response
· Power Down or Power On Status Setup
· Short Protection
· Overload Protection
· Over Temperature Protection
· Read Temperature
· Over Temperature Alarm
· Staircase Light
· Flashing Function
· Scene Control , Scene Dimming
· Sequence Control
· Threshold Switch
· Heating Control: PWM Output
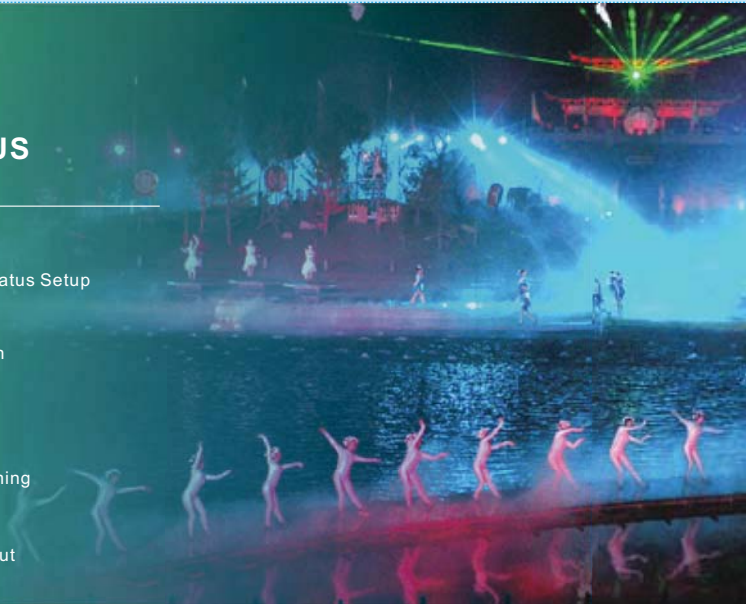
HDL KNX / EIB Trailing-Edge Technology Dimmers are in full compliance with European safety standards and the KNX association protocol. We use 20A MOSFET Copper Dimming technology with High Performance EMC Filter embedded complying with the requirements of EMC Europe. The products feature Short circuit-, overload- and overheat protection.

The dimmers may be used for dimming ordinary incandescent lamps, high pressure halogen lamps, low voltage halogen lamps and other light sources such as dimmable ballasts. At the moment we offer four types of dimmers:

6 channel/250W per channel

4 channel/ 400W per channel

2 channel/ 800W per channel

1 channel/ 1600W per channel

The KNX/EIB Dimmers may be used in a variety of applications such as for controlling lighting in Residential Homes, Hotels, Super Markets, Offices, Commercial buildings, etc.

HDL provides solutions for Smart Home and Building Control. Our ambition is to become a leading Global supplier by taking very seriously the challenges of delivering products protecting the Environment and the conservation of Energy to enhance a high quality, intelligent lifestyle.

1 Channel 6A Intelligent Dimmer
HDL-M/D01.1

Parameter
· Working Voltage : 21-30 V DC
· Dynamic Current : < 15 mA
· Static Current : < 5 mA
· Output Current : 6 Ch/1A , 4 Ch/1.5A,
                    2 Ch/3A , 1 Ch 6 A
· Rated Voltage : 220-250V AC (50/60 Hz)

2 Channel 3A Intelligent Dimmer
HDL-M/D02.1

Parameter
· Working Voltage : 21-30 V DC
· Dynamic Current : < 15 mA
· Static Current : < 5 mA
· Output Current : 6 Ch/1A , 4 Ch/1.5A,
                    2 Ch/3A , 1 Ch 6 A
· Rated Voltage : 220-250V AC (50/60 Hz)

4 Channel 61.5A Intelligent Dimmer
HDL-M/D04.1

Parameter
· Working Voltage : 21-30 V DC
· Dynamic Current : < 15 mA
· Static Current : < 5 mA
· Output Current : 6 Ch/1A , 4 Ch/1.5A,
                    2 Ch/3A , 1 Ch 6 A
· Rated Voltage : 220-250V AC (50/60 Hz)

6 Channel 1A Intelligent Dimmer
HDL-M/D06.1

Parameter
· Working Voltage : 21-30 V DC
· Dynamic Current : < 15 mA
· Static Current : < 5 mA
· Output Current : 6 Ch/1A , 4 Ch/1.5A,
                    2 Ch/3A , 1 Ch 6 A
· Rated Voltage : 220-250V AC (50/60 Hz)

HDL KNX/EIB-BUS
Features

· Master & Slave Control
· Switch Control
· Absolute Valve for Dimming
· Curtain & Shutter Control
· Intelligent Alarm Function
· Percentage Control
· Sequence Control
· Scene Control
· String Control
· Logic Control
· Status Report for Motion
· Temperature Compensation
· Tempearture Report
· LUX Report
· Dry Contact Status Report

HDL-M/HS05.1
Multifunction Sensor

HDL KNX/EIB-BUS
Features

· Play 24 Programs
· Record 24 Programs
· Up to 7 hours record time
· Play or Record mode can be selected
· Output Signal: DMX512-1990
· Network DMX Output Selection : HDL-NET/ART NET
· Selectable Channels : Max 48
· Selectable Channels in one scene : Max 48
· Intelligent Sequence Control
· Switch Control, Absolute Valve Dimming,
  Relative Valve Dimming
· Channel Status Response
· Data Exchange Between DMX and EIB

HDL-M/DMX512.1
DMX Recorder

Parameters

· Working Voltage: 21-30 V DC
· Dynamic Current: < 15 mA
· Static Current: < 5 mA

Description

HDL KNX / EIB Multi-function Motion Sensors are in full compliance with European safety standards and the KNX association protocol. With multi-function Movement detection sensors, combined with Temperature- and LUX detection, Master & Slave control, Logic control etc. the Sensors have the ability to send a variety of data information to control different KNX devices.

HDL KNX / EIB sensors may be used for many different applications in combination with other KNX devices.

HDL provides application solutions for Smart Home and Building Control. Our ambition is to become a leading Global supplier by taking very seriously the challenges of delivering products protecting the Environment and the conservation of Energy to enhance a high quality, intelligent lifestyle.

Parameters

· DMX512 Signal in a 1990 Version
· Working Voltage: 21-30 V DC
· Dynamic Current: < 6 mA
· Static Current: < 5 mA

Description

HDL KNX / EIB series products of DMX Recorder are fully complying with European safety standards and KNX association protocol. It is a DMX control device for Entertainment. Can make record and play back DMX program from the KNX software or KNX wall panels. The maximum recording time is up to 4 hours; meantime, it supports the setting and play back of the DMX scenes.

The KNX/EIB DMX recorder can be used in variety applications such as: LED color change control, Computer Light and Moving head light control, Laser and other DMX lights control.

HDL provides application solutions for the Smart Home and Building Control applications with the World leading level, Green, Environmental Protection, Energy Conservation, for the purpose of creating a high quality of life as the ultimate goal of intelligent.

HDL KNX/EIB-BUS

Features

· Blinds operation mode
· Curtain operation mode
· Manual operation
· Priority setupl
· Status can be set when Power-Down
  or Power up
· Forced position operation
· Limit position control
· Status response for position
· Status for operation
· Scene control
· Safety control
· Automatic control

HDL KNX / EIB series products for Curtain Controllers are fully complying with European safety standards and KNX association protocol. It's to be used as a motorized control device. Zero power consumption and Long life time are the mainly features for the Internal used 16A high current Relay unit.

The KNX/EIB Curtain Controllers can be used in variety applications such as Air Port, Metro Station, Sports Center, Park, Building Wall, Public area, Street, and other areas which motorized curtain control are needed.

HDL provides application solutions for the Smart Home and Building Control applications with the World leading level, Green, Environmental Protection, Energy Conservation, for the purpose of creating a high quality of life as the ultimate goal of intelligent.

2 Channel Curtain Controller
HDL-M/W02.1

Parameter
· Working Voltage
  (Power Consumption): 21-30V DC
· Communication:KNX/EIB
· Dynamic current: <12mA
· Static current: <5mA
· Dynamic power dissipation: <450mW
· Static power consumption: <150mW
· Relay ouput current: 10A
· Rated voltage: 250V AC(50/60Hz)
· Ouput channel: 2 relays
  two channels
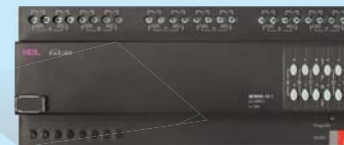· Channel electrical life: >100000
· Mechanical life: >1000000

4 Channel Curtain Controller
HDL-M/W04.1

Parameter
· Working Voltage
  (Power Consumption): 21-30V DC
· Communication:KNX/EIB
· Dynamic current: <12mA
· Static current: <5mA
· Dynamic power dissipation: <450mW
· Static power consumption: <150mW
· Relay ouput current: 10A
· Rated voltage: 250V AC(50/60Hz)
· Ouput channel: 4 relays
  two channels
· Channel electrical life: >100000
· Mechanical life: >1000000

6 Channel Curtain Controller
HDL-M/W06.1

Parameter
· Working Voltage
  (Power Consumption): 21-30V DC
· Communication:KNX/EIB
· Dynamic current: <12mA
· Static current: <5mA
· Dynamic power dissipation: <450mW
· Static power consumption: <150mW
· Relay ouput current: 10A
· Rated voltage: 250V AC(50/60Hz)
· Ouput channel: 6 relays
  two channels
· Channel electrical life: >100000
· Mechanical life: >1000000

6 Channel 0-10V Ballast Dimmer
HDL-M/DA6.10.1

Parameters

· Working Voltage(Power Consumption):
  21-30VDC
· Dynamic Current:<15mA
· Static Current: <6mA
· Dimming Output:DC0-10V/CH
· Dimming Output Current:20mA/CH
· Relay Channel Current: 10A/CH
· Shut off way:
  Pulsed with the lock relay shut off
· Rated Voltage:220~250V AC(50/60Hz)
· Electrical life time: >100000
· Mechanical life time: >1000000

Features

· Statistics total ON time
· Status respone
· Status recovery
· Upper limit
· Lower limit
· Staircase light
· Flashing light
· Scene control
· Scene dimming
· Sequence control
· Threshold switch
· Heating actuator(PWM

960mA Power Supply for EIB BUS
HDL-M/P960.1

Parameters

· Input Supply: 220-250V AC（50/60Hz）
· KNX/EIB output Voltage：21-30V DC
· KNX/EIB output Current：960mA
· Power loss:<2W
· Power On time:<1s
· Electrical Lifetime：50 years
· Mechanical Lifetime：20 years

Features

· Short circuit protection
· Green Led:Output normal
· Red Led: Overload(I>Imax)
· Reset: push button to reset bus

4 Dry Contact Signal Input Module
HDL-M/S04.1

Parameters

· Working Voltage
  (Power Consumption): 21-30V DC
· Communication:KNX/EIB
· Dynamic Current: <25mA
· Static Current: <5mA
· Output Voltage: 0-10V DC
· Output Current: 3mA
· Input sensors:Switch/
  Temperature sensor

Features

Switch,Temperature sensor input
· Switch controller
· Switch/Dimming controller
· Shutter controller
· Flexible controller
· Scene controller
· Sequence controller
· Percentage controller
· Threshold controller
· String controller
· Forced controller
· Counter controller
· Combination controller
· LED status indication
Logics combination
· Switch controller
· Alarm controller
· Shutter controller
· Scene controller
· Sequence controller
· Percentage controller
· Threshold controller
· String controller
· LED status indication

Dimming
· Statistics total ON time
· Status respone
· Status recovery
· Staircase light
· Flashing light
· Scene control
· Scene dimming
· Sequence control
· Threshold switch
· Heating actuator(PWM)

HVAC Control Module
HDL-M/FCU07.10.1

Parameters

· Working Voltage
  (Power Consumption): 21-30V DC
· Communication:KNX/EIB
· Dynamic current: <20mA
· Static current: <5mA
· Dynamic power dissipation: <450mW
· Static power consumption: <150mW
· Relay ouput current: 10A
· Rated voltage: 250V AC(50/60Hz)
· Channel electrical life: >100000
· Mechanical life: >1000000

Features

· Five channel 10A relay outputs
· Two channel 0-10V DC outputs
· Fan speed: High, Medium,Low
· HVAC working mode: Heating, Cooling
· HVAC operation mode: Standby mode,
  Comfort mode, Night mode, Frost protection
· Fan speed and Valve status report
· Seven local temperature sampling
· BUS temperature sampling
· Local temperature report
· Seven channel floor heating outputs
· Five control mode each floor heating channel
· Seven channel output independently
· Channel statistics total ON time
· Channel state response
· Channel state after bus voltage failure
  and recovery
· Staircase light
· Delay
· PWM control output

7" TOUCH SCREEN
Intelligent Control Terminal
S8-WL-TS7

Parameter

· Power Supply : DC24V
· Bus Power Consumption : 200mA/DC24V
· Working Condition :
  Working Temprature : 0℃~40℃
  Working Relative Humidity : 20%~90%
  Store Temprature : -40℃~+55℃
  Store Relative Humidity : 10%~93%
· Installation : Embedded Install

· CPU: 400MHz
· FLASH ROM: 64M
· SDRAM: 64M
· Timer : Built-In RTC Real Timer
· Operation Sytem: WinCE 4.2Net
· Ethernet Interface: Rj45
· USB Port and SD Card Port
· Dimension: 207.5X150.9X32.9(mm)

Main Menu Page	Setting Page	System Setting Page
Timer Setting Page	Sunrise & Sunset Time Setting Page	Scene Info Page
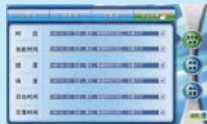
10" WIRELESS
TOUCH SCREEN
Intelligent Control Terminal
S8-MBL-TS10-CE

Parameter

· Working Voltage : DC18V
· Power Consumption in BUS: 600Ma/DC18V
· CPU: 667MHz
· Flash Rom: 256M NandFlash
· SDRAM: 128M DDR

Function

· Hand Hold Wireless
· Colorful 10" Touch Screen
· Ethernet Communication
· Control TV,DVD,AC,Scene etc
· Embedded Timer

Lighting Control	Pictures Browser	Select room
Appliance Control –TV	Appliance Control –Air Condition	Scene control
Movie Play Control	Music Play Control	Security Control

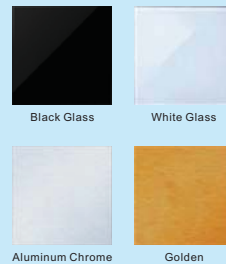# MODERN

LCD Multifunction Wall Switch

SB-DLP-MEU

Parameter

· Power Supply	DC 24V
· Bus Power Consumption	30mA/DC 24V
· Working Condition	Working Temp 0℃~45℃
	Relative Humidity 20%~90%
	Store Temp -40℃ ~ +55℃
	Store Humidity 10%~93%
· Installation	Standard GI Box : 86x86(mm)
· Dimension	86x86x35(mm)

Function

· IR remote control
· Multi Modes for Button:
  Single On/Off , Single On , Single Off , Combination
  On , Combination Off , Momentary
· Multi Control types for Button:
  Scene , Sequence , Timer , Universal Switch , Single
  Channel Control , Broadcast Scene , Broadcast
  channel , Curtain
· 1-4 pages for lighting control, page 5 is for Air Condition
  control, Page 6 is for Music control, Page 7 is for
  Floor Heating Control
· Clock Timer Function
· User Definable for the LCD display
· User Definable for the LCD Back light and Status

Optional Material

Black Glass

White Glass
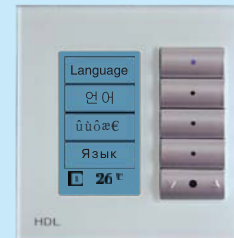
Aluminum Chrome

Golden

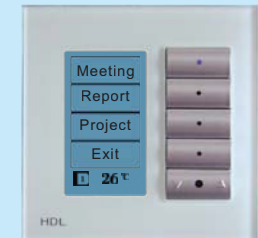Lighting Control

Living Scene Lighting Control
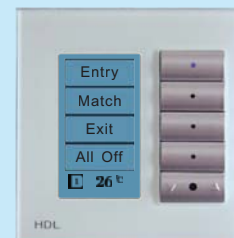
Culture Lighting Scene Control

Language Selectable

Language Selectable

Meeting Scene Control

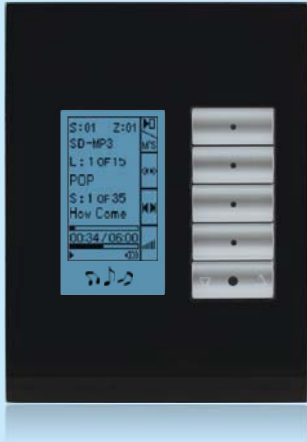Sports Hall Scene Control

Floor Heating

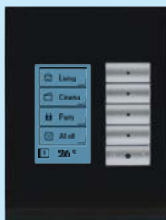Air Conditioning

MODERN

LCD Multifunction Wall Switch
SB-DLP-MUS

Parameter

- Power Supply · · · · · · · · · · DC 24V
- Bus Power Consumption · · 30mA/DC 24V
- Working Condition · · · · · · · Working Temp 0℃~45℃
  Relative Humidity 20%~90%
  Store Temp -40℃ ~ +55℃
  Store Humidity 10%~93%
- Installation · · · · · · · · · · · · Standard GI Box : 86x86(mm)
- Dimension · · · · · · · · · · · · · 86x116.2x35(mm)

Function

- IR remote control
- Multi Modes for Button:
  Single On/Off , Single On , Single Off , Combination
  On , Combination Off , Momentary
- Multi Control types for Button:
  Scene , Sequence , Timer , Universal Switch , Single
  Channel Control , Broadcast Scene , Broadcast
  channel , Curtain
- 1-4 pages for lighting control, page 5 is for Air Condition
  control, Page 6 is for Music control
- Clock Timer Function
- User Definable for the LCD display
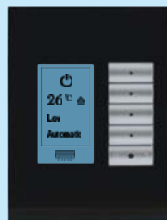- User Definable for the LCD Back light and Status
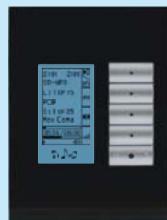
Selectable Interface, Frame
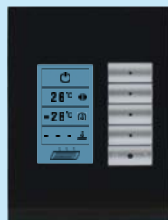
Scene control   Floor Heating   Air Conditioning   Back Ground Music

MODERN

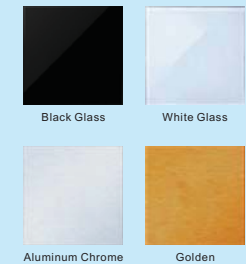## New LCD Multifunction Wall Switch
SB-DLP4-MEU

Parameter

- Power Supply · · · · · · · · · · DC 24V
- Bus Power Consumption · · 30mA/DC 24V
- Working Condition · · · · · · · Working Temp 0℃~45℃
  Relative Humidity 20%~90%
  Store Temp -40℃ ~ +55℃
  Store Humidity 10%~93%
- Installation · · · · · · · · · · · · Standard GI Box : 86x86(mm)
- Dimension · · · · · · · · · · · · · 95x95x35(mm)

Function

- IR remote control
- Multi Modes for Button:
  Single On/Off , Single On , Single Off , Combination
  On , Combination Off , Momentary
- Multi Control types for Button:
  Scene , Sequence , Timer , Universal Switch , Single
  Channel Control , Broadcast Scene , Broadcast
  channel , Curtain
- 1-4 pages for lighting control, page 5 is for Air Condition
  control, Page 6 is for Music control
- Clock Timer Function
- User Definable for the LCD display
- User Definable for the LCD Back light and Status

Optional Material

Black Glass   White Glass

Aluminum Chrome   Golden
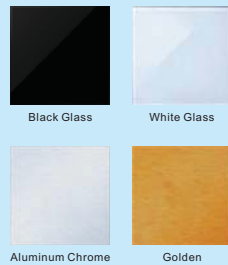
MODERN
Intelligent Panel
SB-WS6-UK

Parameter

· Power Supply: DC24V
· BUS power consumption : 15mA/DC24V
· Working Condition
  Working Temp 0℃~40℃
  Working Relative Humidity 20%~90%
  Store Temp -40℃~+55℃
  Store Relative Humidity 10%~93%
· Signal Interface : S-BUS
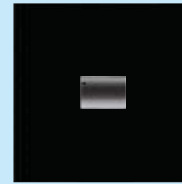· Model : 1-6 Gang Input
· Installation : Standard GI Box 86x86(mm)

Features

· Infrared Function ：
  The Gang of the switch can be controlled by remoter
· Key Mode ：
  Single On/Off、Single On,、Single Off、Multi-On etc.
· Key Control Mode ：
  Scene、Sequence、Universal Switch、Broadcast
  channel、Broadcast scene、Single channel control

Optional Material

Black Glass

White Glass

Aluminum Chrome

Golden

Selectable Qty Button
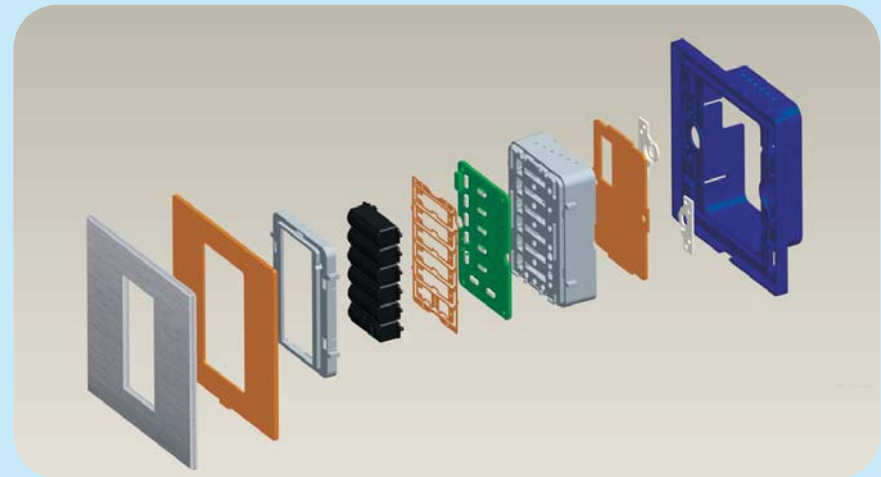
SB-WS1M-UK

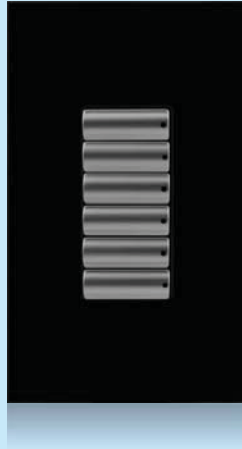SB-WS2M-UK

SB-WS3M-UK

SB-WS4-UK

Schematic Diagram of Modern Panel

MODERN
Intelligent Panel
SB-WS6-US

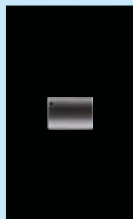## Parameter

· Power Supply: DC24V
· BUS power consumption : 15mA/DC24V
· Working Condition
 Working Temp 0℃~40℃
 Working Relative Humidity 20%~90%
 Store Temp -40℃~+55℃
 Store Relative Humidity 10%~93%
· Signal Interface : S-BUS
· Model : 1-6 Gang Input
· Dimension : 69.5x116.5x35(mm)

Features

· Infrared Function ：
 The Gang of the switch can be controlled by remoter
· Key Mode ：
 Single On/Off、 Single On,、 Single Off、 Multi-On etc.
· Key Control Mode ：
 Scene、Sequence、Universal Switch、Broadcast
 channel、Broadcast scene、Single channel control

Selectable Qty Button

SB-WS1M-US   SB-WS2M-US   SB-WS3M-US   SB-WS4-US

Z-AUDIO
Digital Back Ground Music Streaming Server
SB-Z-AUDIO

Parameter

· Power supply: DC±24V
· Static power consumption: 1.6W
· Signal Interface: HDL-BUS, RJ45, SD Card, RCA Audio, Audio output
· Audio input voltage: 0.7vpp
· Input impedance: 50KΩ
· Output impedance: RL=8Ω RR=8Ω
· Output power: 20Wx2
· Total Harmonic Distortion: ＜0.05%
· Signal to Noise Ratio: 97dB
· Frequency response: 22Hz-20KHz
· Length of file name: ≤25 byte
· Music File Format: Mp3
· Communication Protocol: HDL-BUS, FTP Data exchange, UDP Data exchange
· Volume of SD Card: ≤8G
· Working Environment
 Working temperature: 0℃~45℃
 Working Relative Humidity: 20%~90%
 Storage temperature: -40℃~+55℃
 Storage Relative Humidity: 10%~93%
· Dimension：224mm×126mm×39mm

Function

· External input
· Internal SD Card
· FM Radio
· FTP Server
· RS485 Bus Communication
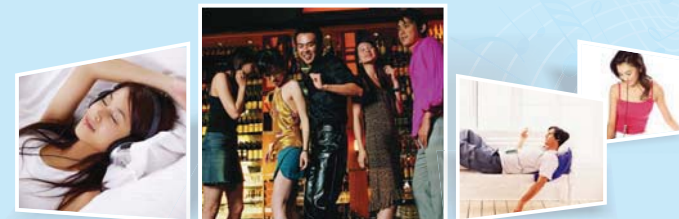
1 Channel 20A Power Amplifier

SB-WL-B0120

Parameter

· Power Supply : AC220V±10%
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Protection : Need exterior protection switch
· 1 channel output for dimming
· Current : 20A
· Wall Mount
· Dimension : 288x200x100 (mm)

Features

· Dimmable Power amplifier
· AC0~220V Power Input
· DC0~10V Control Signal Input

2Channel 10A Power Amplifier

SB-WL-B0210

Parameter

· Power Supply : AC220V±10%
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Protection : Need exterior protection switch
· 2 channel output for dimming
· Current : 10A
· Wall Mount
· Dimension : 288x200x100 (mm)

Features

· Dimmable Power amplifier
· AC0~220V Power Input
· DC0~10V Control Signal Input
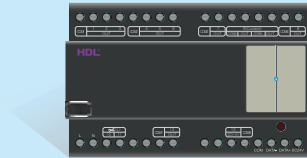
Room Mix Controller

SB-DN-RMIX10

Parameter

· Power Supply : AC220V ±10%
· BUS Power Consumption : Built-In Power Supply
· Working Condition:
  Working Temperature : 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Output Channel :
  2 Channel for Dimming (300W per channel)
  4 Channel for relay (5A)
  2 Channel for Fluorescent Dimming(0~10V/20mA)
  2 Channel for Curtain (5A)
· Protection : Need Exterior LCB
· Installation :
  Standard 35 mm Din Rail
· Dimension :
  144X88X66 (mm)

Features

· Multi-channel for output: Dimming control, On/Off control,
  Fluorescent lights dimming and Curtain control
· 4 buttons for scene manual control on module
· Module reset function, using the 4 buttons on module
· Low, High and Maximum limit can be set for the channel
· Need exterior protection switch
· Interface: S-BUS / 0~10V output
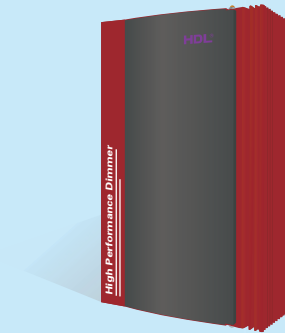
12 Channel 10 A, High performance intelligent dimmer

SB-WL-D1210

Parameter

·Power supply	3 Phase（L1、L2、L3、N、PE）
·Power input	AC 220V±10%
·BUS Power Consumption:	250mA/DC24V
·Working Condition	Working Temp 0℃~45℃
	Working relative Humidity 20%~90%
	Store Temp -40℃~+55℃
	Store Relative Humidity 10%~93%
·Output channel	12 channel dimming
·Current in each channel	Each channel 10A, total less than 120A
·Protection	Short and overload protection
·Installation	Wall mount
·Dimension	600x290x162(mm)

Features

· 10 bit dimming Accurate;
· Hard ware bypass function;
. Up to 12 separated scene;
. Up to 99 scene in each area, run time;
. Up to 99 sequence, 99 steps in each sequence;
· Each sequence has 60 minutes as interval time;
· There are four types of sequence:
  Forward / Backward / Random / Forward & Backward;
· Low or High or Maximum Threshold are available to suit the
  different loads in each channel;
· Emergency Bypass in each channel;
· To be able to provide 250mA(DC24V) current to BUS;
· Remark information Provided in each :
  scene, area, channel and sequence;
· Remote Program and management function;
· Can be restored to previous scene or designated scene;
· 16A/1P protection switch in each channel.

6 Channel 20 A, High performance intelligent dimmer

SB-WL-D0620

Parameter

·Power supply	3 Phase（L1、L2、L3、N、PE）
·Power input	AC 220V±10%
·BUS Power Supply	250mA/DC24V
·Working Condition	Working Temp 0℃~45℃
	Working relative Humidity 20%~90%
	Store Temp -40℃~+55℃
	Store Relative Humidity 10%~93%
·Output channel	6 channel dimming
·Current in each channel	Each channel 10A, total less than 120A
·Protection	Short and overload protection
·Installation	Wall mounted
·Dimension	600x290x162(mm)

Features

· 10 bit dimming Accurate;
· Hard ware bypass function;
. Up to 6 separated scene;
. Up to 99 scene in each area, run time;
· Up to 99 sequence, 99 steps in each sequence;
· Each sequence has 60 minutes as interval time;
· There are four types of sequence:
  Forward / Backward / Random / Forward & Backward;
· Low or High or Maximum Threshold are available to suit the
  different loads in each channel;
· Emergency Bypass in each channel;
· To be able to provide 250mA(DC24V) current to BUS;
· Remark information Provided in each :
  scene, area, channel and sequence;
· Remote Program and management function;
· Can be restored to previous scene or designated scene;
· 16A/1P protection switch in each channel.

6 Channel 10A High Performance Dimmer
SB-WL-D0610

Parameter

·Power Supply	3 Phase (L1、L2、L3、N、PE)
·Power input	AC 220V±10%
·BUS Power Consumption	400mA/DC24V
·Working Condition	Working Temp 0℃~45℃
	Working relative Humidity 20%~90%
	Store Temp -40℃~+55℃
	Store Relative Humidity 10%~93%
·Output channel	6 channel dimming
·Current in each channel	Each channel 10A, total less than 60A
·Protection	Short and overload protection
·Installation	Wall mounted
·Dimension	600x290x162(mm)

Features

· 10 bit dimming Accurate;
· Hard ware bypass function;
· Up to 6 separated scene;
· Up to 99 scene in each area, run time;
· Up to 99 sequence, 99 steps in each sequence;
· Each sequence has 60 minutes as interval time;
· There are four types of sequence:
  Forward / Backward / Random / Forward & Backward;
· Low or High or Maximum Threshold are available to suit the
  different loads in each channel;
· Emergency Bypass in each channel;
· To be able to provide 400mA(DC24V) current to BUS;
· Remark information Provided in each :
  scene, area, channel and sequence;
· Remote Program and management function;
· Can be restored to previous scene or designated scene;
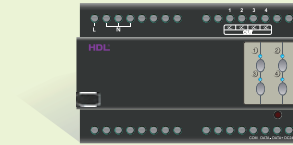· 16A/1P protection switch in each channel.

6 Channel 2A Dimmer
SB-DN-D0602

Parameter

· Power Supply : AC220V
· BUS Power Consumption : 35mA/DC24V
· Working Condition:
  Working Temperature : 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Output Channel : 6 Channel for Dimming
· Output Current in Each Channel:
  2A , 6 Channel Current Totally: 10A
· Protection : Need Exterior LCB
· Installation :
  Standard 35mm Din Rail
· Dimension :
  144X88X66 (mm)

Features

· LED lights for indicates the Current Channel Status;
· Has it's own Scene Controller
· Up to 6 separate Area
· Each Area has 12 scenes, Maximum Run Time :
  60 minutes;
· Up to 6 sequence, 12 steps for each sequence;
· Up to 60 minutes of Interval between each step.
  There are 4 running modes :
  Forward , Backward , Random , Forward & Backward;
· Low or High or Maximum threshold are available in each
  channel to Suit the different loads;
· Has the function of remote program and management;
· Can go back to previous scene or designated scene
  after power on;
· Bypass function is available in each channel.

4 Channel 3A Dimmer
SB-DN-D0403

Parameter

· Power Supply : AC220V
· BUS Power Consumption : 30mA/DC24V
· Working Condition:
  Working Temperature : 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Output Channel : 4 Channel for Dimming
· Output Current in Each Channel:
  3A , 4 Channel Current Totally: 10A
· Protection : Need Exterior LCB
· Installation :
  Standard 35mm Din Rail
· Dimension :
  144X88X66 (mm)

Features

· LED lights for indicates the Current Channel Status;
· Has it's own Scene Controller
· Up to 4 separate Area
· Each Area has 12 scenes, Maximum Run Time :
  60 minutes;
· Up to 6 sequence, 12 steps for each sequence;
· Up to 60 minutes of Interval between each step.
  There are 4 running modes :
  Forward , Backward , Random , Forward & Backward;
· Low or High or Maximum threshold are available in each
  channel to Suit the different loads;
· Has the function of remote program and management;
· Can go back to previous scene or designated scene
  after power on;
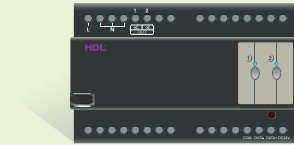· Bypass function is available in each channel.

2 Channel 6A Dimmer
SB-DN-D0206

Parameter

· Power Supply : AC220V
· BUS Power Consumption : 25mA/DC24V
· Working Condition:
  Working Temperature : 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Output Channel : 2 Channel for Dimming
· Output Current in Each Channel:
  6A , 2 Channel Current Totally: 10A
· Protection : Need Exterior LCB
· Installation :
  Standard 35mm Din Rail
· Dimension :
  144X88X66 (mm)

Features

· LED lights for indicates the Current Channel Status;
· Has it's own Scene Controller
· Up to 2 separate Area
· Each Area has 12 scenes, Maximum Run Time :
  60 minutes;
· Up to 6 sequence, 12 steps for each sequence;
· Up to 60 minutes of Interval between each step.
  There are 4 running modes :
  Forward , Backward , Random , Forward & Backward;
· Low or High or Maximum threshold are available in each
  channel to Suit the different loads;
· Has the function of remote program and management;
· Can go back to previous scene or designated scene
  after power on;
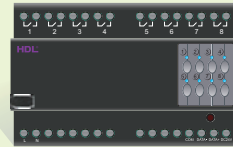· Bypass function is available in each channel.

12 Channel 10A Relay Module
SB-DN-R1210

Parameter

· Power Supply: DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 12 channel relays
· Current in Each Channel : 10A
· Life Time for Relay Unit : More than 60,000 times
· Protection : Need Exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay : <50uF
· Dimension : 216x88x66 (mm)
· With Scene Controller itself

Features

· 12 relay channels
· Maximum 12 separate Area. Up to 24 scenes in each
  maximum running time of scene is 60 minutes
· Each channel has lights protection delay : 0~60 minutes
· Each channel has switch on delay time : 0~25 seconds
· Bypass function is available for each channel
· Remote Program and Management are available
· Can go back to previous scene or designated scene
  once the system restart
· LED lights available for indicates of each channel
· 2 sequence of each area

8 Channel 10A Relay Module
SB-DN-R0810

Parameter

· Power Supply: DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 8 channel relays
· Current in Each Channel : 10A
· Life Time for Relay Unit : More than 60,000 times
· Protection : Need Exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay : <50uF
· Dimension : 144x88x66 (mm)
· With Scene Controller itself

Features

· 8 relay channels
· Maximum 8 separate Area. Up to 16 scenes in each
  maximum running time of scene is 60 minutes
· Each channel has lights protection delay : 0~60 minutes
· Each channel has switch on delay time : 0~25 seconds
· Bypass function is available for each channel
· Remote Program and Management are available
· Can go back to previous scene or designated scene
  once the system restart
· LED lights available for indicates of each channel
· 2 sequence of each area

4 Channel 10A Relay Module
SB-DN-R0410

Parameter

· Power Supply: DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 4 channel relays
· Current in Each Channel : 10A
· Life Time for Relay Unit : More than 60,000 times
· Protection : Need Exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay : <50uF
· Dimension : 72x88x66 (mm)
· With Scene Controller itself

Features

· 4 relay channels
· Maximum 4 separate Area. Up to 8 scenes in each
  maximum running time of scene is 60 minutes
· Each channel has lights protection delay : 0~60 minutes
· Each channel has switch on delay time : 0~25 seconds
· Bypass function is available for each channel
· Remote Program and Management are available
· Can go back to previous scene or designated scene
  once the system restart
· LED lights available for indicates of each channel
· 2 sequence of each area

4 Channel 16A Relay Module
SB-DN-R0416

Parameter

· Power Supply : DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 4 relay channels
· Current in Each Channel : 16A
· Life time for Relay unit : More than 60,000 times
· Protection : Need exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay Unit : <300uF
· Dimension : 72x88x66(mm)

Features

· 4 relay channels
· Bypass function is available for each channel
· Each channel has switch on delay time : 0~25 seconds
· Area : Maximum 4 separate area
· Scene : 8 scenes in each area, maximum running time
  of each scene is 60 minutes
· Sequence : 2 sequence in each area, Maximum 12 steps
  of each sequence
· Can go back to previous scene or designated scene
  once the system restart
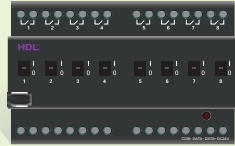· Current Detect function is available.

8 Channel 16A Relay Module
SB-DN-R0816

Parameter

· Power Supply : DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 8 relay channels
· Current in Each Channel : 16A
· Life time for Relay unit : More than 60,000 times
· Protection : Need exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay Unit : <300uF
· Dimension : 144x88x66(mm)

Features

· 8 relay channels
· Bypass function is available for each channel
· Each channel has switch on delay time : 0~25 seconds
· Area : Maximum 8 separate area
· Scene : 16 scenes in each area, maximum running time
  of each scene is 60 minutes
· Sequence : 2 sequence in each area, Maximum 12 steps
  of each sequence
· Can go back to previous scene or designated scene
  once the system restart
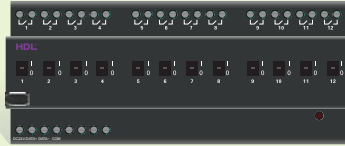· Current Detect function is available.

12 Channel 16A Relay Module
SB-DN-R1216

Parameter

· Power Supply : DC24V
· Power Consumption:
  Static BUS Power Consumption: 15mA/DC24V
  Dynamic BUS Power Consumption: 40mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Output Channel : 12 relay channels
· Current in Each Channel : 16A
· Life time for Relay unit : More than 60,000 times
· Protection : Need exterior Protection Switch
· Installation : Standard 35 mm Din Rail
· Capacity Load of Relay Unit : <300uF
· Dimension : 216x88x66(mm)

Features

· 12 relay channels
· Bypass function is available for each channel
· Each channel has switch on delay time : 0~25 seconds
· Area : Maximum 12 separate area
· Scene : 24 scenes in each area, maximum running time
  of each scene is 60 minutes
· Sequence : 2 sequence in each area, Maximum 12 steps
  of each sequence
· Can go back to previous scene or designated scene
  once the system restart
· Current Detect function is available.

6 Channel 16A 0-10V Output Module
SB-DN-6B0-10V

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 30mA/DC24V
· Current in Each Channel : 16A
· Capacity Load of Relay Unit : <300uF
· Power Consumption For Module : 2W
· Control DC Maximum Current : 100mA
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)

Features

· 6 relay channel
· 6 channel for 0~10V analog signal output
· Bypass function is available for each channel
· LED lights available for indicates of each channel
· Maximum 6 separate Area. Up to 12 scenes in each
  maximum running time of scene is 60 minutes
· Can go back to previous scene or designated scene
  once the system restart
· Remote Program and Management are available
· Low or High or Maximum Threshold are available to
  suit thedifferent loads in each channel

6 Channel 10A 0-10V Output Module
HDL-MRDA0610.232

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 30mA/DC24V
· Current in Each Channel : 16A
· Capacity Load of Relay Unit : <300uF
· Power Consumption For Module : 2W
· Control DC Maximum Current : 100mA
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)

Features

· 6 relay channel
· 6 channel for 0~10V analog signal output
· Bypass function is available for each channel
· LED lights available for indicates of each channel
· Maximum 6 separate Area. Up to 12 scenes in each
  maximum running time of scene is 60 minutes
· Can go back to previous scene or designated scene
  once the system restart
· Remote Program and Management are available
· Low or High or Maximum Threshold are available to
  suit thedifferent loads in each channel

3 Channel 650mA LED Driver
SB-LED650mA

Parameter

· Power Supply : DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Power Consumption of Module : <2W
· Output channel : RGB 3 channels
· Current in each channel : 650mA
· Signal Interface : DMX512 (1990)
· Dimension : 96x58.5x22.5 (mm)

Features

· 3 channel for LED lights, maximum 650mA
· Voltage for LED Driver : DC10-30v
· Control Signal : DMX512 (1990)

3 Channel 4A LED Driver
SB-WM-LED0304

Parameter

· Power Supply : AC220V±10%
· Frequency : 50~60HZ
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Signal Interface : DMX512 (1990)
· Output channel : RGB 3 channels(DC24V/4A)
· Controlled Light type : RGB LED light
· Installation : Wall Mount
· Dimension : 310x230x87 (mm)

DMX 48 Scene Controller
SB-DN-48DMX

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 40mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)
· Built-In Ethernet RJ45 Interface

Features

· Maximum 48 DMX areas
· Maximum 99 Scenes in Each area , Maximum
  running time of scene is 60 minutes
· Maximum 99 sequence and maximum steps for
  each sequence is 99. Maximum intervals between
  each steps is 60 minutes, there are 4 running
  mode for each sequence:
  Forward / Backward / Random / Bounce
· DMX512 standard output
· HDL-BUS DMX output
· Manual Program and test on Module are available
· Remote Program and management function are
  available
· Low , High , Maximum threshold are available for
  each channel to fits different loads
· Data switcher Function :Between HDL-BUS and Ethernet
· Intelligent Data communication
· Can go back to previous scene or designated scene
  when turn on power of the system
· Interface : HDL-BUS , RJ45 , DMX512

DMX 512 Scene Controller
SB-DN-512DMX

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 200mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· User Interface :
  128x64 LCD Lattice Graphic
  6 button for keyboard
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)
· Built-In Ethernet RJ45 Interface

Features

· Up to 500 scenes can be pre-programed,
  maximum running time of scene is 0.1s~60 minutes
· Signal Output : DMX512
· Property of Saltation and Gradual are available for each
  DMX channel
· Data Switcher Function : 2 way for HDL-BUS and Ethernet
· Maximum 99 show sequence, up to 255 steps for each show
  sequence, maximum running time of step is 0.1s~60 minutes
· For modes for each show sequence:
  Forward / Backward / Random / Bounce
· Intelligent Data communication
· Software reset function, no need turn off the power
· Electrical password locker is available for illegal modification
· DMX512 Signal output (1990 Version)
· Remote Program and management function are available
· DMX512 Patching Function is available

Logic Module
SB-DN-Logic960

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 15mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation :
  Standard 35 mm Din Rail
· Dimension :
  72x88x66 (mm)

Features

· Events List Editable in Daily
· Maximum 12 modes in Each Day
· In each mode, 4 Logic Block can be
  used:
  And / Or / Nand / Nor
· Logic Inputs : Time, Status of Module,
  Exterior inputs, Universal Switch etc...
· Remote program and management are
  available

2 Channel Curtain Controller
SB-DN-2Motor

Parameter

· Power Supply : DC24V
· BUS Power Consumption :
  35mA/DC24V
· Working Condition :
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Controllable Curtain :
  2 curtains can be controlled
· Motor Type : Capacitive Single phase
· Maximum Current in each channel : 10A
· Life time for Relay unit :
  More than 60,000 times
· Installation : Standard 35 mm Din Rail
· Dimension : 72x88x66 (mm)

Features

· 2 channel for curtain control
· Modes : Forward, Backward and Stop
· Delay time for Forward and Backward is available

HDL-BUS/RS232 Convertor
SB-DN-RS232N

Parameter
· Power Supply : DC24V
· BUS Power Consumption : 15mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Interface : HDL-BUS , Rs232
· Dimension : 72x88x66 (mm)
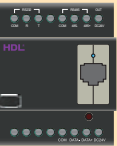
Air Condition Controller
SB-DN-HVAC

Parameter

· Power Supply : DC24V
· BUS Power Consumption :
  35mA/DC24V
· Working Condition :
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Dimension : 72x88x66 (mm)

Features

· Output : 5 channel of Relay, 5A for each channel
· Fan Speed : High/Medium/Low
· Mode : Cooling/Heating
· 0~10V Output control for VAV

Pro-version RS232 Data exchange Module
SB-DN-232IP-Pro

Parameter
· Power Supply : DC15-30V
· BUS Power Consumption : 85mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation : Standard 35 mm Din Rail
· Interface : HDL-BUS , Rs232
· Dimension : 72x88x66 (mm)

DMX Recorder
SB-DN-DMX

Parameter

· Power Supply : DC24V
· BUS Power Consumption :
  200mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· User Interface :
  128x64 LCD Lattice Graphic
  6 button for keyboard
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)
· Built-In Ethernet RJ45 Interface

Features

· Memory : 256MB
· PC Remote Operation
  Download Program
  Play Program
  Delete Program
· Interface : HDL-BUS, RJ45
· Operation on Module
  Record
  Play: Single or Recycle
  Delete
· Program can be played from
  Panel and switch
· Others
  DMX output can be NET-DMX
  DMX512 Protocol
  Password function available
  IP function available
  Can check the Memory details

SMS Module
SB-DN-SMS/IP

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 500mA/DC24V
· Working Condition
  Working Temperature: 0℃~45℃
  Working Relative Humidity: 20%~90%
  Storage Temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· User Interface :
  128x64 LCD of Lattice Graphic
  6 button for keyboard
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)

Features

· SMS Control : 99x49 Targets
· Status Check Function is Available
· Alarm Function by SMS or Phone is
  available for Security system
· Intensity of LED back light adjustable
· Multi-Control Targets is available
· Can reset with out power off
· Remote program and management
  function are available
· Working with timer and logic, for security
  enable and disable
· SMS , HDL-BUS and Ethernet data
  transmission
· Intelligent Data transfer, less data
  streaming
· Manual Control by sending little
  character to system.

48 Channel DALI Controller
SB-DN-DALI48

Parameter

· Power Supply : AC220V±10%
· BUS Power Consumption : Built-In Power Supply
· Working Condition
 Working Temperature: 0℃~45℃
 Working Relative Humidity: 20%~90%
 Storage Temperature: -40℃~+55℃
 Storage Relative Humidity: 10%~93%
· Signal Interface : HDL-BUS, DALI, RJ45
· Installation : Standard 35 mm Din Rail
· Dimension : 144x88x66 (mm)

Features

· Signal Convert between HDL-BUS and DALI
· All other DALI device can be controlled
· With scene controller Itself
· Maximum have 48 separate area
· Low and High Threshold, System Failed,
 DALI Device restore etc. functions are available
· Remote program and Management function
 are available
· Can go back to previous scene or designated scene
 once the system restart

IR Emitter with Current Sensor
SB-IR-EM

Parameter

· Power Supply : DC24V
· Power Consumption : 12mA/DC24V
· Working Condition:
 Working Temperature: 0℃~45℃
 Working Relative Humidity : 20%~90%
 Storage Temperature : -40℃~+55℃
 Storage Relative Humidity : 10%~93%
· Interface : HDL-BUS
· Maximum Infrared codes : 253
· Sending Carrier Wave Frequency : 38KHz
· Dimension : 49x31x12 (mm)
· Current Detect Function is available

4 Zone Dry Contact Input Module
SB-DRY-4Z

Parameter

· Power Supply : DC12~30V
· BUS Power Consumption : 20mA/DC24V
· Output Signal : HDL-BUS
· Working Condition:
 Working Temperature: 0℃~45℃
 Working Relative Humidity : 20%~90%
 Storage Temperature : -40℃~+55℃
 Storage Relative Humidity : 10%~93%
· Dimension : 49x31x12 (mm)

Features

· 4 channel for Dry Contact input
· Control Targets : Scene, Sequence, Timer,
 Universal Switch, Single channel regulate

Temperature and humidity sensor
SB-CMS-THL

Parameter

· power supply: DC24V
· Bus consumption: 25mA/DC24V
· Output signal: HDL-BUS signal
· Working environment
 Working temperature: 0℃~40℃
 Working Relative Humidity: 20%~90%
 Storage temperature: -40℃~+55℃
 Storage Relative Humidity: 10%~93%
· Installation mode: Ceiling Mount
· Dimension: 80mmx25mm

Features

· Embedded with Temperature sensor, LUX sensor, humidity
 sensor, 2 Dry Contact inputs, 2 external inputs total of
 9 input conditions
· 2 Logic relations OR, AND .
· Up to 24 Logic functions, each logic function can be set
 7 input conditions and 20 target outputs.
· Can be used with security module.
· On-site simulation function.
· RS485 Bus communication

Air quality sensor
SB-CMS-LA

Parameter

· power supply: DC24V
· Bus consumption: 25mA/DC24V
· Output signal: HDL-BUS signal
· Working environment
 Working temperature: 0℃~40℃
 Working Relative Humidity: 20%~90%
 Storage temperature: -40℃~+55℃
 Storage Relative Humidity: 10%~93%
· Installation mode: Ceiling Mount
· Dimension: 80mmx25mm

Features

· Embedded with LUX sensor, air quality sensor, 2 Dry Contact
 inputs, 2 external inputs total of 9 input conditions
· 2 Logic relations：OR, AND .
· Up to 24 Logic functions, each logic function can be set 7 input
 conditions and 20 target outputs.
· Can be used with security module.
· On-site simulation function.
· RS485 Bus communication

12in1 (Multi function Sensor)
SB-CMS-12IN1

Parameter
· Power Supply : DC24V
· BUS Power Consumption : 150mA/DC24V
· Working Condition:
  Working Temperature: 0℃~40℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Interface : HDL-BUS
· Installation : Ceiling Mount
· Dimension : 108x34 (mm)

Features
· PIR motion sensor
· Ultrasonic motion sensor
· LUX sensor
· Temperature sensor
· 2 Dry contacts input
· IR receiver
· IR Emitter
· 2 channels 5A relays output
· Constant LUX control
· Security
· Easy setting
· Logic

Infrared Learner
SB-IR-Learn

Parameter
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Dimension : 98x70x38 (mm)
· USB Interface
· For Learning Infrared Codes
· Sending Learned IR codes for Test

Infrared Motion Sensor
SB-CMS-PIR

Parameter
· Power Supply : DC24V
· BUS Power Consumption : 12mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Detective Range : 5x5 meters
· Detective Angle : 110 degree
· Interface : HDL-BUS
· Detective Distance adjustable by software
· Dimension : 80x28 (mm)
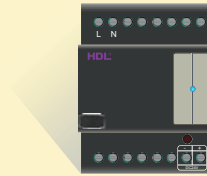
DC24V 750mA Power Supply
SB-DN-PS750

Parameter
· Power Supply : AC220V±10%
· Frequency : 50~60HZ
· Power Supply to BUS : 750mA
· Output Voltage : DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Installation : Standard 35 (mm) Din Rail
· Dimension : 72x88x66 (mm)

Power Meter Module
SB-DN-PM0301

Parameter
· Power Input : DC24V
· BUS Power Consumption : 20mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Installation :
  Standard 35(mm) Din Rail
· Dimension : 72x88x66 (mm)

Features
· Real Time monitor of Voltage and Current of A/B/C Phase;
· Reporting Electrical degree value (KWH) of each circuit;
· Has the interface of HDL-BUS;
· Need to be worked with Current Transformer, 3 types
  of Current Transformer are available:
  50A/5A   100A/5A   200A/5A
· Monitored by HDL-BUS software;
· Show the voltage and current status in HAC Software;
· Current can be checked daily or monthly.

Current Transformer
SB-CUR50A: 50A/5A
SB-CUR100A: 100A/5A
SB-CUR200A: 200A/5A

Wall Mount Infrared Motion Sensor
SB-WMS-PIR

Parameter

· Power Supply : DC12~30V
· BUS Power Consumption : 15mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Detective Range : 12 meters
· Detective angle : 110℃
· Interface : HDL-BUS
· Detective distance is adjustable by software
· Dimension : 103.6x60.2x60 (mm)
· Wall Mount

1200mA Din Rail Power Supply Module
SB-DN-PS1200

Parameter

· power supply: AC 220V±10%
· Frequency: 50-60HZ
· Output current: 1200mA
· Output voltage: DC24V
  Working environment
  Working temperature: 0℃~40℃
  Working Relative Humidity: 20%~90%
  Storage temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation mode: standard 35mm din rail mount.
· Dimension: 144mmx88mmx66mm

EIB/HDL-BUS Convertor
SB-DN-EIB

Parameter

· Power Supply : DC24V
· BUS Power Consumption : 15mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Interface : HDL-BUS
· Installation : Standard 35 mm Din Rail
· Dimension : 72x88x66 (mm)

Features

· 2 Way data signal convert for HDL-BUS and EIB
· 2 Way function convert for HDL-BUS Single channel
  Dimming and EIB Standard Dimming and On/Off
· 2 Way for control targets, maximum 75 devices

IP Interface
SB-DN-1IP

Parameter

· Power Supply : DC12~30V
· BUS Power Consumption : 40mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Available for 1 subnet for BUS products
· Interface : HDL-BUS , RJ45
· Installation : Standard 35 mm Din Rail
· Dimension : 72x88x66 (mm)

Features

· 2 Way data communication for HDL-BUS and TCP/IP
· Reset function no need power off
· Intelligent Data Transfer
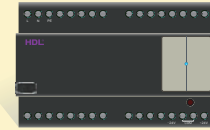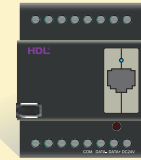· Remote program will be available

8 In 1 Sensor
SB-CMS-8in1

Parameter

· Power Supply : DC12~30V
· BUS Power Consumption : 12mA/DC24V
· Working Condition:
  Working Temperature: 0℃~45℃
  Working Relative Humidity : 20%~90%
  Storage Temperature : -40℃~+55℃
  Storage Relative Humidity : 10%~93%
· Interface : HDL-BUS
· Dimension : 80x39.2 (mm)

Features

· Built-In IR Motion detector and LUX sensor
· 2 channel for Dry Contact input
· Maximum 32 Logic Block
· Maximum 5 inputs for the Logic Verdict
· Maximum 10 control targets for each Logic Block
· Infrared receiving function is available
· Infrared sending function is available

2400mA Din Rail Power Supply Module
SB-DN-PS2400

Parameter

· power supply: AC 220V±10%
· Frequency: 50-60HZ
· Output current: 2400mA
· Output voltage: DC24V
  Working environment
  Working temperature: 0℃~40℃
  Working Relative Humidity: 20%~90%
  Storage temperature: -40℃~+55℃
  Storage Relative Humidity: 10%~93%
· Installation mode: standard 35mm din rail mount.
· Dimension: 144mmx88mmx66mm

Infrared Remoter
SB-HHR-D

Features

·Power : Battery (AAA*2)
·Sending Distance : 10M
·Use together with Wall panel with IR
·Dimension : 126×65.5×15(mm)

## Advanced Security Controller
SB-DN-SEC250K

Features

· Support up to 250,000 zones
· 24 hours zones, Fire, Gas, Panic, silence Panic, Current,
  Freeze Alarm
· ALL security modes, vacation, away, night, night with
  guest, day, OFF
· Auto Arming, Disarming
· All type of sensors, NC, NO, Analog
· Dial out, SMS, Alert, sends you SMS

HDL-BUS System Program Software
SB-SW-Pack

Description
HDL-BUS software is the system programming Software
For all the HDL-BUS products
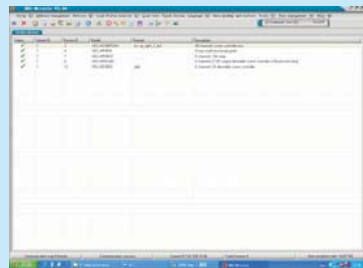
iRidium home inteligent control software (For iPhone)
### iRidium home inteligent control software (For iPad)

Product specification
· With assistance from the panel designed which has been well set,this product can help to control the intelligent bus system
·Allows the user to create a vivid flash interface.
·Can upload graphical interface（GUI editable or AMX TPDesign4 iPad/iPhone/iPod), besides it can make the interface (IRPTP4) format and release it to the equipment of Windows XP/7, Windows Mobile/CE
·At the same time, it support two or multiple equipments or through using Ethernet/wireless internet, it can control a interactive equipment application.

HDL-iLife home inteligent control software (For iPhone)
HDL-iLife home inteligent control software (For iPad)

Product specification
The Prevail UI interface is designed by the domestic top designers, UI interactive interface to lead a more intuitive display, Ilife is an easy operating application. Through the main interface, you can realize real-time temperature, humidity and the air quality . Master control function for the electrical equipment can be fulfilled by the zone control. Zone control includes the curtain, lights, electrical equipments, wireless and multichannel control. ILIFE also provides the user-defined control for curtain, TV, DVD, air-condition, background music, multimedia server and scene, just one click to swtich the scenes,   security mornitoring throught the camera could provide you with the real-time security information.
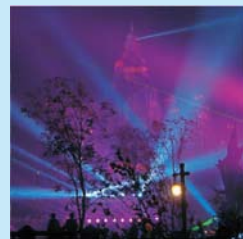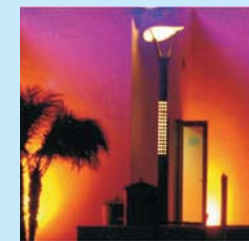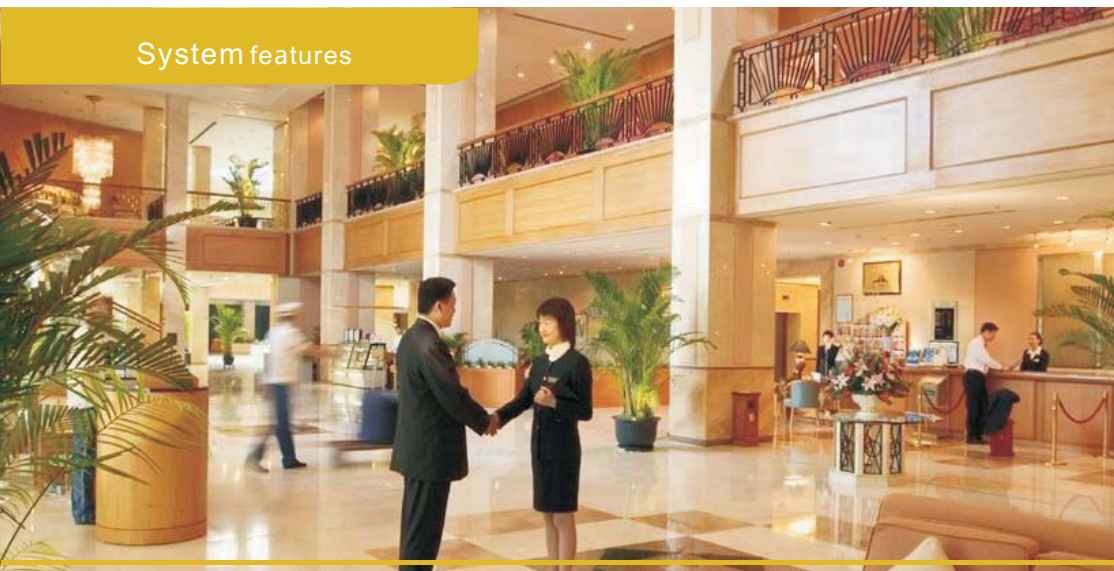
Hotel Rooms Intelligent Control System

Energy Saving Conception
User-Friendly Control
Good for Management

Intelligent ID Identify
Identified by the Card, Owner or Servant. Purview is differ according to ID . Security and Energy Saving at the same time.

Motorized Curtain Control
Controlled by wall mount panel & switch,enjoy the intelligent control way of life.

Service Information
Service Remind：
DND、Clean、Service Customize、Check-Out Remind；
Customer Room Remind：
Easy for chambermaid's work、Do not disturb customer；
Waiting Mode：
When other customer come, remind that please wait for moment.

Lighting Control user friendly
By using Switch & Panel, easy to control the scenes of lights shows a nice and comfort feeling.

Security
Emergency, asking for help：
When there is Emergency Situation in hotel Room,chambermaid will know right away；
System Break Down Remind：
When system break Down, System will reminds the Manege Man, to solve the problem right away, Show higher efficiency.
Safety：
Inside the system, all control unit use lower power, DC24V, make sure it is maximum safe.

Temperature Control
Easy to be controlled by Panel & Switch, Energy Saving Make a nice and comfort entironment in hotel room.

Motion Detect
Controlled in a Logic Way: Man is Coming, lights turn on；Man is leaving, lights turn off automatically.

Network Management
Room Status：
Easy to check if somebody in room by using Software, It is good feeling for management；
Check out Request：
One Key for check out request，in reception, check out documents will be ready, save the time for customer；
Servant Status：
Through software, easy to find the location of the waiter, Captain can have good assignment；
Remote Control：
When customer check-in in the reception, lights & Air Condition can be turned on before customer go to the room
Failer Detect：
All status of equipment which inside Hotel can be monitored by system software；
History Check：
Provide the History Report of Device & Room etc；
Room Central Control：
Based on TCP/IP network, more stability and good for management；
Manage Date Share：
System can be easily integrated with Hotel Software；

System schematic diagram labels:
- Hotel Control Host
- Door Bell Panel
- Room Card
- Multifunction LCD Panel
- Safety Box
- Panic Button
- Control Panel
- Magnetic
- AC220V
- 2A Power Supply
- 8 in 1 Sensor
- Dry Contact Input Module
- 4X8 Switch control Module
- Control Panel near bed
- IR Sending Module
- TV
- Split Air Condition
- HUB
- Hotel Internet
- Hotel Room 18 Channel Mix Controller
- Energy Saving Light
- Draft Fan
- Air fresher
- Door Bell
- Motorized Curtain
- Ventilator
- Magnet-valve
- Central AC System
- Table Light
- Wall Light

Electrical Cable
- Exterior 485 BUS
- Interior 485 BUS
- TCP/IP

Modernize Series Hotel Door Bell
SB-3S-Bell
SB-3S-Bell-XS

808

■ Parameter

Power Supply:	DC12~30V
BUS Power Consumption :	25mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Layout :	105mm x 170mm x 40mm
Back box size:	94mm x 159mm x 30mm

■ Features

Show different Number of Room
Do Not Disturb
Clean Mode
Wait Mode
Support RF Card(SB-3S-Bell-XS)

Modernize Series RF Hotel Master Card
SB-RF-MSTR

■ Parameter

Power Supply:	DC12~30V
BUS Power consumption:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Layout:	86mm x 86mm x 9mm
Installation:	GI 86mm×86mm Back Box

■ Features

To be used together with Door Bell panel;
Can be used as Master Card and ID identify;
RF card.

Modernize Series Hotel Multifunction panel
SB-DLP5-GRMS

■ Parameter

Power supply:	DC12~30V
BUS Power Consumption:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Installation:	GI 86mmX86mm Back Box
Layout Size:	86.4mm×86.4mm×35mm

■ Features

IR :
IR Receiving function of each button on the panel
Key Mode :
Single On/Off, Single On, Single Off, Combination
On, Combination Off, Momentary.
Control Mode :
Scene, Sequence, Timer, Universal Switch,Single
Channel Control,Broadcast Scene, Broadcast
Channel, Curtain Control.

LCD Display:
Show Different Picture or Different Language;
LCD Back light :
LED brightness can be adjustable ;
Has the function of Remote Program and Management;
Has the function of Password Setting ;
4 button for Function key, 1 button for Page Change;

■ Operation Interface

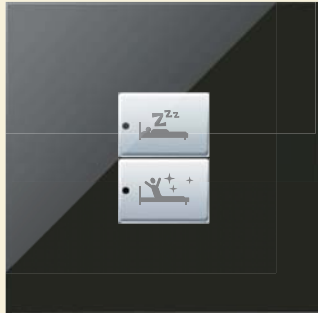| Air Condition Control | Lighting Control | Curtain Control | System Service | Scene Control |

Modernize Series Intelligent Panel
SB-WS3m-UK

■ **Parameter**

Power supply:	DC12~30V
Power Consumption in BUS:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Installation:	GI 86mmX86mm Back Box
Layout Size:	86.4mm×86.4mm×35mm

■ **Features**

IR : IR Receiving Function of the Key Button

Key Control Mode : Scene、Sequence、Timer Channel、Universal Switch、Single Channel Control、Broadcast Scene、Broadcast Channel、Curtain Control

LED Back Light: LED Brightness can be adjustable

Key Mode : Single On-Off、Single On、Single Off、Combination On、Combination Off、Momentary

ID Setting: ID can be changed by software of Manual; Remote Control and Management;

■ **Different Combination for Button**

SB-WS1m-UK	SB-WS2m-UK	SB-WS3m-UK	SB-WS6-UK
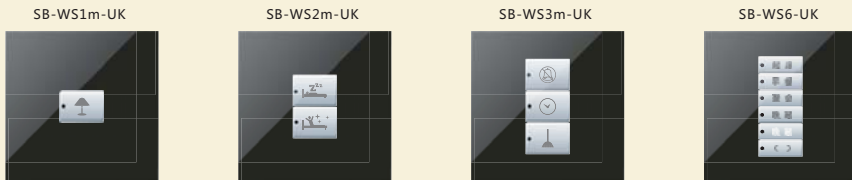
Selectable Material for Panel

Silver Aluminium	Golden Aluminium	White Glass	Black Glass

Touch Series Hotel Room Door Bell Panel
SB-3S-Bell-Edge

■ **Parameter**

Power Supply:	DC12~30V
Power Consumption in BUS :	25mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Layout :	86mm x 86mm x 9mm
Back box size:	86mm x 86mm Back Box

■ **Features**

Show different Number of Room

Do Not Disturb

Clean Mode

Wait Mode

请勿打扰 DO NOT DISTURB

清理房间 CLEAR ROOM

请稍候 LATER ON

Touch Series Hotel Master Card
SB-RF-MSTR-Edge

■ **Parameter**

Power Supply:	DC12~30V
Power comsumption in BUS:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity: 10%~93%
Signal Interface:	HDL-BUS
Layout:	86mm x 86mm x 9mm
Installtion:	GI 86mm×86mm Back Box

■ **Features**

To be used together with Door Bell panel;

Can be used as Master Card and ID identify;

Two kinds: By touch or With RF card.

请插卡取电 INSERT KEY FOR POWER

Touch Series Hotel Room Control Panel
SB-WS4-Edge

■ Parameter

Power Supply:	DC12~30V
Power Comsumption in BUS:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity10%~93%
Signal Interface:	HDL-BUS
Layout Size:	86mm x 86mm x 9mm
Installation:	GI 86mm×86mm Back Box

■ Features

Control Mode	Single On/Off	Combination On	Double Click/Single On-Off
	Single On	Combination Off	Double Click/Combination On-Off
	Single Off	Combination On/Off	Momentary
Control Type	Scene	Universal Switch	Broadcast Scene
	Sequence	Single Channel	Broadcast Channel
	Timer	Curtain	

Touch Series Hotel Radio Control Panel
SB-FM-Edge

■ Parameter

Power Supply:	DC12~30V
Power Comsumption in BUS:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity10%~93%
Signal Interface:	HDL-BUS
Layout Size:	86mm x 86mm x 9mm
Installation:	GI 86mm×86mm Back Box

■ Features

Up to 16 different Channel for Radio Station

Volume Regular

Radio Channel selection

■ Selectable Panel Style

SB-WS4-Edge   SB-WS3-Edge   SB-WS2-Edge   SB-WS1-Edge

Touch Series Hotel Room Air Condition Control Panel
SB-AC-Edge

■ Parameter

Power Supply:	DC12~30V
Power Comsumption in BUS:	15mA/DC24V
Working Condition:	Working Temperature: 0℃~40℃
	Working Relative Humidity: 20%~90%
	Storage Temperature: -40℃~+55℃
	Storage Relative Humidity10%~93%
Signal Interface:	HDL-BUS
Layout Size:	86mm x 86mm x 9mm
Installation:	GI 86mm×86mm Back Box

■ Features

To be used together with
Mix Room Controller
Control Temperature、
Speed、Mode、On/OFF
Display Indoor
Temperature、Date
Has the function of
Remote Control and
manage

■ Adjustable Color

Golden Aluminium   Copper Aluminium   Champagne Aluminium   Silver Aluminium   Dark Silver Aluminium

Smart Hotel

Modernize Series Hotel Room Multifunction Panel(Multi Media Connector)
SB-MMS5-Black

Modernize Series Hotel Room Multifunction Panel(Multi Media Connector)
SB-MMS5-White

Modernize Series Hotel Room Multifunction Panel(Multi Media Connector)
SB-MMS3-Black   SB-MMS3-White

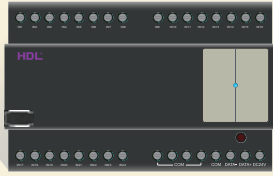Power Socket
SB-PS-10A

Data Outlet
SB-PC-1P

Telephone Outlet
SB-TEL-1P

Panic Button Panel
SB-EM-1P

24 zone dry contact input module
SB-DRY-24Z

Parameter

Power supply: DC24V
Bus power consumption: 10mA/DC24V
Working environment
Working temperature: 0℃~45℃
Working Relative Humidity: 20%~90%
Storage temperature: -40℃~+55℃
Storage Relative Humidity: 10%~93%
Installation: standard 35mm din rail mount
Dimension: 144mmx88mmx66mm

Features

24 channels dry contact input
Switch types include: Mechanical switches, single-On, single-Off, Single-On/Off, combination on, combination off, combination on/off, invalid switch (both mechanical switch and combination switch can set maximum 49 targets,)
Control target type: scenes, sequences, universal switches, single channel adjustment, broadcast scene, broadcast channel, curtain control, panel control, GPRS function and so on.
RS485 Bus communication

Hotel Room Intelligent System Manage Software
SB-SW-GRMS

■ Description

《Hotel Room Intelligent System Manage Software》is a monitor and Program software for the Smart-Hotel System, stability and also High efficiency.Controlled Subsystem including: Door Access; Air Condition, Lighting, Music, Service, Curtain etc. Can show customer the status about all devices inside Hotel Room, easy for management and Program.

■ Features

· Easy for Program and Operate based on Graphic icon;
· User-defined material, show the reality picture about the Hotel Room;
· "SOS" "Safty Box Protection" and many other function;
· Energy Saving Control function of the Air Condition;
· Intelligent ID Identify, more safety for Customer;
· Date back up and Restore Function;
· All controlled device an be show under Graphic icon;

■ Software Interface

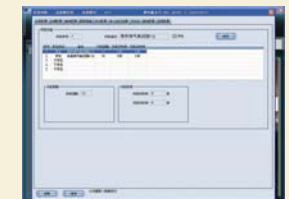Hotel Room

Check Room Number

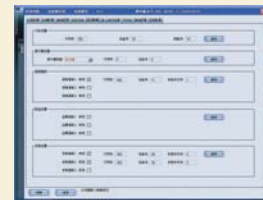Lighting System Configure

Air Condition Manage

Curtain Control Manage

Fan and Central Air Condition

Other Information Configure

Customer Unique Information Manage

Switch Configure Manage

Parameter

Power Supply: DC12~30V
Power Consumption in BUS: 40mA/DC24V
Working Condition:
Working Temperature: 0℃~40℃
Working Relative Humidity: 20%~90%
Storage Temperature: -40℃~+55℃
Storage Relative Humidity: 10%~93%
Installation: Standard 35(mm) Din Rail
Layout Size: 72(mm)x88(mm)x66(mm)

Features

1 Separate Area;
99 Scene,Maximum 255 seconds for Each Scene;
Hight Limit、Low Limit、Threshold for Each channel;
Delay Time For Channel Protection: (0—60 Minutes);
Delay Time For Channel Start: (0—25 Seconds) ;
Local Program And Test Function;
Remote Program And Manage Function;
Designate Scene after Device Restart;
BUS Switch Board Function: 2 Way Date Transfer between HDL-BUS and Ethernet;
Ethernet Interface Embeded.

Hotel Room Control Host
SB-DN-48HNET

Parameter

Power Supply: DC15~30V
Power Consumption in BUS: 260mA/DC24V
Working Condition:
Working Temperature: 0℃~40℃
Working Relative Humidity:20%~90%
Storage Temperature: -40℃~+55℃
Storage Relative Humidity:10%~93%
Signal Interface:
RS485 —Connected with Interior BUS of Room Host
Installation : Standard 35(mm)Din Rail
Layout Size: 144(mm)x88(mm)x66(mm)

Features

Channel 1-5:
1. To be used as Relay channel, 10A in each channel
2. To be used as Air Condition Control channel:
channel 1-3 connect as Low-Middle-High Mode;
Channel 4-5 connect as Cool and Heat Mode;
Channel 6-16:
Relay channel, 10A in each channel
Channel 17-18:
Dimming channel, 2A in each channel.

Multi Function Output Module
SB-DN-HMIX18

Diagram 1 (top-left)

Multi-Output Module
(Air Condition/Curtain/Dim/On-Off)

Switch

Switch
(Color/Key Qty Selectable)

Cat5e
Interior 485 BUS

Room Control Host   Power Module   Master Card   Door Bell Panel   Air Condition Panel

Exterior 485 BUS
DC 12V
Cat5e

806

Diagram 2 (top-right)

Cat5e
Interior 485 BUS

Relay   Dimmer

Cat5e

8 Cable

Room Control Host

Exterior 485 BUS
DC 12V
Cat5e

Power Module   Master Card   Door Bell Panel   Switch Control Module

806

6   7   8

Electrical Switch   Electrical Switch   Electrical Switch   Electrical Switch

Diagram 3 (bottom-right)

Cat5e
Interior 485 BUS

Relay   Dimmer

Electrical Switch

Cat5e

Exterior 485 BUS
DC 12V
Cat5e

Power Module   Master Card   Door Bell   Dry Contact

806

Dry Contact   Dry Contact   Dry Contact   Dry Contact

Cat5e   Cat5e   Cat5e   Cat5e

Electrical Switch   Electrical Switch   Electrical Switch   Electrical Switch