**HDL Limited Warranty**

HDL warrants this product for a period of 2 years from the date of purchase. This product will be free from defects in material & workmanship, and perform in conformity with its User Manual. Any improper use or neglect will void this warranty.

### Parameters

#### Electrical Parameters
- **Working Voltage**: 21~30VDC Class 2
- **Communication**: KNX/EIB
- **DC current**: 15mA
- **KNX terminals**: KNX Bus Terminal (Red/Grey) 0.6 – 0.8mm
- **Rated switch voltage**: 250V AC/440VAC Supply
- **Rated switch current**: 16A lighting load, Max inrush 500A
- **Operation times**: >1000000
- **Output Terminals**: Line In, Line Out for each channel 2.5~4mm²
- **Output Current**: 4CH/16A, 8CH/16A, 12CH/16A
- **capacity**: <300μF

#### Environmental Conditions
- **Operating 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, UL
- KNX

#### Product information
- **Dimensions**: H90mm x W72mm x D 66mm (M/R4.16.1)
- **Net weight**: 257.1g (M/R4.16.1)
- **Housing material**: Flame-retarded nylon
- **IP rating**: IP 20

### Functions
- The switch Actuators can drive for 4, 8 and 12 channels loads.
- The maximum 16 A on every output channel, also can manually operation.
- The module functions: Statistical ON time, Status response, Status Recovery, Staircase light, Flashing, ON/OFF delay, Protection delay, Scene Control, Threshold Function, Curtain Control and so on.
- Logic Function: AND, OR, XOR, Gate.
- Heating Function: PWM (1bit/1byte) control output.

### Installation Steps
- Mount MCB for circuit short and overload protection on each channel.
- Labeling for AC power wires, loads wires and KNX Bus wire.
- Mount the device on a DIN rail of DB.
- Connect wires for loads and AC power.
- Make sure there is no circuit short or open.
- Make sure the KNX cable type is correct and has no circuit short.
- Connect bus cables. Make sure the color of wire same as definition of Bus.
- Tidy the all wire and separate Bus wire from AC power wire.

HDL/KNX-EIB Bus relay series products are fully compliant with European safety standards and protocols for High-power switching KNX equipment, internal use of 50A High-current magnetic relay, zero power consumption and long life are some of the key features.
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### Layout and Wirings

- **Special Programming** – This device is designed for professional KNX installation. It can only be programmed by ETS software.
- **Check Connections** – Re-tighten all connections after installation.
- **Output Circuit** – The load on the switched circuits must not exceed the specified capacity of 16A, these circuits should be fed via a 16A fuse/circuit breaker.
- **Three Phase Connection** – this Relay module support 3 phase input, channel 1,4,7 for L1. channel 2,5,8 for L2. channel 3,6 for L3
- **The load types can be LED, fluorescent lamp, and so on.**
- **Ratings for each output contacts:**
  - 250V, 16A, Resistive, 100,000 cycles, 85°C;
  - 250V, 1HP (8FLA/48LRA), Motor, 6,000 cycles, 95°C;
  - 277V, 6A, Tungsten, 6,000 cycles, 40°C;
  - 277V, 6A, Standard Ballast, 6,000 cycles, 40°C;
  - 120V, 0.5HP (9.8FLA/58.8LRA), Motor, 20,000 cycles, 40°C;
  - 120V, 15A, Tungsten, 20,000 cycles, 40°C;
  - 120V, 15A, Electronic Ballast, 20,000 cycles, 40°C;
  - 120V, 15A, Standard Ballast, 6,000 cycles, 40°C;