Parameters

<table>
<thead>
<tr>
<th>Electrical parameters</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Voltage</td>
<td>21~30VDC  Class 2</td>
</tr>
<tr>
<td>Communication</td>
<td>KNX/EIB</td>
</tr>
<tr>
<td>Dynamic current</td>
<td>&lt; 15mA</td>
</tr>
<tr>
<td>KNX terminals</td>
<td>KNX Bus Terminal – (Red/Grey) 0.6 – 0.8mm Diameter Single Core</td>
</tr>
<tr>
<td>Rated switch voltage</td>
<td>250V AC Supply</td>
</tr>
<tr>
<td>Rated switch current</td>
<td>10A lighting load, Max inrush 500A</td>
</tr>
<tr>
<td>Operation times</td>
<td>&gt;1000000</td>
</tr>
<tr>
<td>Output Terminals</td>
<td>Line In, Line Out for each channel 2.5-4mm²</td>
</tr>
<tr>
<td>Output Current</td>
<td>4CH/10A,8CH/10A,12CH/10A</td>
</tr>
<tr>
<td>capacity</td>
<td>&lt;300μF</td>
</tr>
</tbody>
</table>

Environmental Conditions

| Working temperature                    | -5℃~45℃                                           |
| Working relative Humidity              | Up to 90%                                          |
| Storage temperature                    | -20℃~+60℃                                        |
| Storage relative humidity              | Up to 93%                                         |

Approved

CE, RoHS, UL

KNX

Product information

Dimensions

| H90mm x W72mm x D 66mm (M/R4.10.1) |
| H90mm x W144mm x D 66mm (M/R8.10.1) |
| H90mm x W216mm x D 66mm (M/R12.10.1) |

Net weight

| 256g (M/R4.10.1)       |
| 576g (M/R8.10.1)       |
| 822.6g (M/R12.10.1)    |

Housing material

Flame-retarded nylon

iP rating

IP 20

Safety Precautions

- Screw down strength is less than 0.4Nm
- Connect a breaker or fuse into each channel
- Current in each channel is less than 10A
- Installation Position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- Do not get AC220V voltage into KNX/EIB Bus wire , it will damage all of devices in system
- Assure a good ventilation circumstances
- Rain, liquid, and aggressive gas are not allowed to close to it
- CAUTION - Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing

Overview

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 10A High-current magnetic relay, zero power consumption and long life are some of the key features.

Functions

- The switch Actuators can drive for 4, 8 and 12 channels loads.
- The maximum 10 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
**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 10A; these circuits should be fed via a 10A 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
- **Ratings for each output contacts:**
  - 250V, 10A, Resistive, 100,000 cycles, 40°C;
  - 250V, 1HP (8FLA/48LRA), Motor, 6,000 cycles, 40°C;
  - 250V, 6A, Tungsten, 6,000 cycles, 40°C;
  - 250V, 6A, Standard Ballast, 6,000 cycles, 40°C;
  - 120V, 0.5HP (9.8FLA/58.8LRA), Motor, 20,000 cycles, 40°C;
  - 120V, 10A, Tungsten, 20,000 cycles, 40°C;
  - 120V, 10A, Electronic Ballast, 20,000 cycles, 40°C;
  - 120V, 10A, Standard Ballast, 6,000 cycles, 40°C;

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**Important Notes**