### Parameters

#### Electrical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Voltage</td>
<td>21~30VDC</td>
</tr>
<tr>
<td>Communication</td>
<td>KNX/EIB</td>
</tr>
<tr>
<td>DC 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 copper cable</td>
</tr>
<tr>
<td>Rated switch voltage</td>
<td>250V AC/440VAC Supply</td>
</tr>
<tr>
<td>Rated switch current</td>
<td>16A 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 capacity</td>
<td>&lt;300μF</td>
</tr>
</tbody>
</table>

#### Environmental Conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working temperature</td>
<td>-5°C~45°C</td>
</tr>
<tr>
<td>Working relative Humidity</td>
<td>Up to 90%</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20°C~+60°C</td>
</tr>
<tr>
<td>Storage relative humidity</td>
<td>Up to 93%</td>
</tr>
</tbody>
</table>

#### Approved

- CE, RoHS
- KNX

#### Product information

- **Dimensions (Unit: mm)**
  - H90xW72 x D 66 (M/R4.16.1-CD)
  - H90 x W144 x D 66 (M/R8.16.1-CD)
  - H90 x W216 x D 66 (M/R12.16.1-CD)
- **Net weight**
  - 577g (M/R8.16.1-CD)
  - 823.4g (M/R12.16.1-CD)
- **Housing material**
  - Flame-retarded nylon
- **Protection rating**
  - IP 20

### 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 50A 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 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.

### Safety Precautions

- The screw down strength should not exceed 0.4Nm.
- Connect a breaker or fuse into each channel.
- Current in each channel is less than 16A.
- Installation Position: Distribution Box (DB).
- Do not make wrong connection on Bus interface, it will damage the Bus interface of this module.
- Do not get AC voltage into KNX/EIB Bus wire , it will damage all devices in the system.
- Ensure good ventilation.
- Avoid contact with the liquids and aggressive gases.
**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
- **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;

**Important Notes**

**Package Contents**

- Device*1 / Datasheet*1

**Professional Home and Building Automation**

www.hdlautomation.com(171109)

Need help or advice? Contact us via support@hdlchina.com.cn