The M/USB.1 is a new KNX BUS interface with the USB connector galvanically isolated from the KNX BUS that establishes a bidirectional data connection between PC and KNX BUS. The device enables addressing, setting parameters, visualization, protocolling and diagnosis of bus devices. The USB socket and bus connection is on the front of the device together with yellow LEDs. Each one is an indicator to show the status and traffic concerning the bus and the PC.

**Functions**

- The M/USB.1 is a KNX-USB interface for galvanic isolated bidirectional access to the bus line via integrated USB connector for: Commissioning, Addressing, Setting parameters, Visualisation, Protocol, Diagnostic operations on bus devices.

- With this KNX-USB interface you have the possibility to address every bus device in the bus system. The communication protocol used for communication between the PC - USB interface and KNX BUS TP1.

- The connection between KNX and PC running standard software like ETS, EITT and other software is handled by the FALCON driver.

**Parameters**

<table>
<thead>
<tr>
<th>Electrical parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bus Voltage</strong></td>
</tr>
<tr>
<td><strong>PC–side</strong></td>
</tr>
<tr>
<td><strong>Bus Interface</strong></td>
</tr>
<tr>
<td><strong>Bus Current</strong></td>
</tr>
<tr>
<td><strong>KNX Terminals</strong></td>
</tr>
<tr>
<td><strong>USB-Connector</strong></td>
</tr>
</tbody>
</table>

**Environmental Conditions**

- **Working temperature**: -5°C ~ 45°C
- **Working relative Humidity**: Up to 90%
- **Storage temperature**: -20°C~+60°C
- **Storage relative humidity**: Up to 93%

**Approved**

- CE, RoHS
- KNX

**Product information**

<table>
<thead>
<tr>
<th>Installation</th>
<th>Standard 35mm Din rail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>90mm×36mm×70mm</td>
</tr>
<tr>
<td><strong>Net weight</strong></td>
<td>70g</td>
</tr>
<tr>
<td><strong>Housing Material</strong></td>
<td>Plastic PA66</td>
</tr>
<tr>
<td><strong>IP rating</strong></td>
<td>IP 20</td>
</tr>
</tbody>
</table>

**Important Notes**

- **Cable Connections** – Do not get wrong connection for Black and Red wires
- **Voltage** - The input of voltage must be between 21-30VDC.

**Installation Steps**

- Make sure the Bus cable type is correct and has no circuit short.
- Connect bus cables. Make sure the color of wire same as definition.
Layout and Wirings

NOTTE:
1. LED for USB connection  (yellow: USB connection OK, off: no connection)
2. LED for KNX connection (yellow: KNX connection OK, off: no connection, or no USB connection)
3. USB connector
4. KNX-Bus connector

Safety Precautions

- When connecting the M/USB.1 ensure that it can be isolated.
- The M/USB.1 housing must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- Do not make wrong connection on KNX/EIB interface, it will damage the Bus interface of this interface module.
- Do not get AC220V voltage into KNX/EIB wire, it will damage all of devices in system.
- Avoid the rain or water into module, it will damage this device.