The Universal I/O Concentrator has 32 freely programmable channels, each with a terminal for the connection of floating contacts or signal lamps. This, for example, allows the control of operating or display panels. The device requires an external auxiliary voltage supply.

Each channel can be separately programmed as an input or output. When operated as an input a push button/switch is typically connected to a channel.

It can trigger a command, e.g. to switch, dim or to actuate a shutter control.

The channels that are used by the outputs can switch signal lamps or LEDs either normally, inverted or make them flash.

In operation the device is suitable for displaying processing of a fault signal in conjunction with the Fault Signalling Module SMB/S 1.1.

### Technische Daten

**Power supply**
- Operating voltage
- Current consumption via the bus
- Auxiliary voltage
- Leakage loss

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>21...30 V DC</td>
<td>max. 12 mA</td>
</tr>
<tr>
<td>Nominal values: 12/24 V DC</td>
<td>permissible: 10...30 V DC</td>
</tr>
<tr>
<td>Ripple: &lt; 5 %</td>
<td></td>
</tr>
</tbody>
</table>

**Inputs/outputs**
- Number
- Permitted line length

<table>
<thead>
<tr>
<th>Number</th>
<th>Line Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>max. 10 m</td>
</tr>
</tbody>
</table>

**Input**
- Sampling voltage Un of the inputs

Equal to the auxiliary voltage (12/24 V DC)

**Output**
- Signal level of the outputs
- Output current
- Permitted load type
- Safety

<table>
<thead>
<tr>
<th>Level</th>
<th>Current</th>
<th>Load Type</th>
<th>Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equal to auxiliary voltage (12/24 V DC)</td>
<td>Max. 80 mA per output</td>
<td>Resistive</td>
<td>Short-circuit protected, overload protected</td>
</tr>
</tbody>
</table>

**Connections**
- Inputs/outputs
- KNX

Plug-in screw terminals

**Operating and display elements**
- LED (red) and button

For assignment of the physical address

**Enclosure**
- IP 20

To DIN EN 60529

**Safety class**
- II

To DIN EN 61140

**Isolation category**
- Overvoltage category
- Pollution degree

III to DIN EN 60664-1

2 to DIN EN 60664-1

**Temperature range**
- Operation
- Storage
- Transport

- 5° C ... + 45° C
- 25° C ... + 55° C
- 25° C ... + 70° C

**Ambient conditions**
- Maximum air humidity

93 %, no condensation allowed

**Design**
- Modular installation device (MDRC)
- Dimensions
- Mounting width
- Mounting depth

Modular installation device, ProM

90 x 72 x 64 mm (H x W x D)

4 modules at 18 mm

68 mm

**Installation**
- On 35 mm mounting rail

To DIN EN 60 715

**Mounting position**
As required

**Weight**
0.15 kg

**Housing, colour**
Plastic housing, grey

**Approvals**
- KNX to EN 50 090-1, -2

Certification

**CE mark**
In accordance with the EMC guideline and low voltage guideline
Universal I/O Concentrator, 32fold, MDRC
UK/S 32.2, 2CDG 110 071 R0011

<table>
<thead>
<tr>
<th>Application program</th>
<th>Number Communication objects</th>
<th>Max. number of group addresses</th>
<th>Max. number of associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binary Input Display Heating 32f/1</td>
<td>227</td>
<td>254</td>
<td>255</td>
</tr>
</tbody>
</table>

**Note:**

The programming requires ETS2 V 1.3 or higher. If ETS3 is used a “.VD3” type file must be imported. The application program can be found in the ETS2/ETS3 at “ABB/Display and visualisation/Binary input and output”.

**Note:**

The device does not support the ETS encryption function. If you inhibit access to all devices of the project with a “BA password” (ETS2) or “BCU code” (ETS3), it has no effect on this device. Data can still be read and programmed.

**Note:**

See the product manual “Universal I/O Concentrator UK/S 32.2 ” for a detailed description of the application programs. The product manual is available free of charge on the Internet at www.abb.de/eib.

**Dimension drawing**

[Dimension drawing image]

**Circuit diagram**

[Detailed circuit diagram with labels:

1 Programming LED
2 Label carrier
3 Input/output contacts
4 Auxiliary voltage supply connection
5 Bus terminal connection]