ACU-RITE's IB 2X external unit provides two additional encoder connections when connected to a compatible digital readout. It must be mounted on a standard 35 mm, DIN EN 50022 rail to ensure the correct and intended operation of the product.

**IB 2X**

External encoder input box for DRO300

ACU-RITE is a registered trademark of HEIDENHAIN CORPORATION

ACU-RITE® is a registered trademark of HEIDENHAIN CORPORATION

**Encoder interfaces**

<table>
<thead>
<tr>
<th>IB 2X</th>
<th>2 – TTL; Max. current 300mA; max. input frequency 500kHz; 9-Pin D-Sub</th>
</tr>
</thead>
</table>

**Output**

| 1 – 15-Pin M D-Sub (X10) |

**Mounting**

On a standard NS 35mm DIN rail in an electrical cabinet or on a stand

**Protection EN 60529**

IP 40 (intended for indoor use only)

**Voltage supply**

Via the DRO

**Cable length**

Do not exceed a maximum combined cable length of 30m

**Storage temperature**

0°C … 45°C

**Operating temperature**

-20°C … 70°C

Accessories:

- **Connecting cable** complete with connectors, between IB 2X and DRO
- **Distribution cable** (Y cable) complete with connectors, for parallel connection of IB 2X, IOB 610, and KT 130 on DRO

**On the IB 2X and IOB 610**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 V</td>
<td>/</td>
<td>Signal low</td>
<td>/</td>
<td>/</td>
<td>DC 5 V</td>
<td>0 V</td>
<td>0 V</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

| Signal high | / | / | Value Output Contact | / | Value Output Pulse | 0 V |

Vacant pins or wires must not be used.

**X5, X6**

**TTL**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>A+</td>
<td>A-</td>
<td>B+</td>
<td>B-</td>
<td>GND</td>
<td>DC 5V</td>
<td>R-</td>
<td>R+</td>
</tr>
</tbody>
</table>

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