

## ASi 4I Module

### Specification ASi-3

AB addresses (up to 62 addresses)

Supply of inputs by ASi

Housing with external fastening tabs



(Figure similar)



The ASi 4I Module, which meets the requirements of ASi Specification ASi-3, is the board based solution for an ASi module with 4 inputs as an AB address.

The inputs are supplied out of ASi. They are short circuit and overload protected.

|  |   |
|--|---|
| <b>Article no.</b>                           | <b>BW2480</b>   |
| <b>Connection</b>                            |   |
| Connection                                   | cage clamp terminals  |
| Length of connector cables                   | max. 15m  |
| <b>ASi</b>                                   |   |
| ASi Profile                                  | S-O.A.O   |
| ASi voltage                                  | 20 ... 30 VDC   |
| Operating voltage                            | via ASi   |
| Operating current                            | ≤ 70 mA   |
| Quiescent current                            | ≤ 20 mA   |
| <b>Input</b>                                 |   |
| Number                                       | 4 (electronic)  |
| Capacity                                     | 100 mA in total supplied by ASi   |
| <b>Display</b>                               |   |
| LED PWR (green)                              | on: ASi voltage on,<br>flashing: ASi voltage on, but peripheral fault or address 0<br>off: no ASi Voltage |
| LED FLT/FAULT (red)                          | an: address 0 or offline<br>flashing: peripheral fault<br>off: online                                     |
| <b>Environment</b>                           |   |
| Applied standards                            | EN 61 000-6-2<br>EN 61 000-6-4  |
| Housing                                      | polycarbonate / polystyrene   |
| Operating temperature                        | -25°C ... +70°C   |
| Storage temperature                          | -40°C ... +70°C   |
| Protection category DIN EN 60 529            | IP54  |
| Maximum tolerable shock and vibration stress | ≤ 15 g, T ≤ 11 ms<br>10 ... 55 Hz, 0,5 mm amplitude   |
| Dimensions (W / H / D in mm)                 | 93 / 93 / 55  |

| Programming | Bit setting   |   |          |    |
|-------------|---------------|---|----------|----|
|             | D3            | D2  | D1       | D0 |
|             | Input         |   |          |    |
|             | I4            | I3  | I2       | I1 |
|             | Parameter bit |   |          |    |
|             | P3            | P2  | P1       | P0 |
| not used    | not used      | 0 = On/1 = Off (data input filter 128 µs) | not used |    |

| Connection  |   |   |            |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
|---|---|---|------------|-------------------|------------|------|---|--------|----|------|---|----|----|------|---|--------|----|------|---|----|----|------|---|------|----|-------|---|------|----|-------|---|------|----|-------|---|------|----|-------|---|------|----|--------|----|------|----|----|----|------|----|--------|----|------|----|----|
|   |   | <table border="1"> <thead> <tr> <th colspan="2">Terminal A</th> <th colspan="2">Terminal B</th> </tr> </thead> <tbody> <tr><td>1</td><td>+ 24 V</td><td>13</td><td>n.c.</td></tr> <tr><td>2</td><td>I1</td><td>14</td><td>n.c.</td></tr> <tr><td>3</td><td>+ 24 V</td><td>15</td><td>n.c.</td></tr> <tr><td>4</td><td>I2</td><td>16</td><td>n.c.</td></tr> <tr><td>5</td><td>n.c.</td><td>17</td><td>ASi +</td></tr> <tr><td>6</td><td>n.c.</td><td>18</td><td>ASi +</td></tr> <tr><td>7</td><td>n.c.</td><td>19</td><td>ASi -</td></tr> <tr><td>8</td><td>n.c.</td><td>20</td><td>ASi -</td></tr> <tr><td>9</td><td>n.c.</td><td>21</td><td>+ 24 V</td></tr> <tr><td>10</td><td>n.c.</td><td>22</td><td>I3</td></tr> <tr><td>11</td><td>n.c.</td><td>23</td><td>+ 24 V</td></tr> <tr><td>12</td><td>n.c.</td><td>24</td><td>I4</td></tr> </tbody> </table> | Terminal A |                   | Terminal B |      | 1                                       | + 24 V | 13 | n.c. | 2 | I1 | 14 | n.c. | 3 | + 24 V | 15 | n.c. | 4 | I2 | 16 | n.c. | 5 | n.c. | 17 | ASi + | 6 | n.c. | 18 | ASi + | 7 | n.c. | 19 | ASi - | 8 | n.c. | 20 | ASi - | 9 | n.c. | 21 | + 24 V | 10 | n.c. | 22 | I3 | 11 | n.c. | 23 | + 24 V | 12 | n.c. | 24 | I4 |
| Terminal A  |   | Terminal B  |            |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 1   | + 24 V                                  | 13  | n.c.       |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 2   | I1                                      | 14  | n.c.       |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 3   | + 24 V                                  | 15  | n.c.       |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 4   | I2                                      | 16  | n.c.       |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 5   | n.c.                                    | 17  | ASi +      |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 6   | n.c.                                    | 18  | ASi +      |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 7   | n.c.                                    | 19  | ASi -      |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 8   | n.c.                                    | 20  | ASi -      |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 9   | n.c.                                    | 21  | + 24 V     |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 10  | n.c.                                    | 22  | I3         |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 11  | n.c.                                    | 23  | + 24 V     |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| 12  | n.c.                                    | 24  | I4         |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| <table border="1"> <thead> <tr> <th colspan="2">Addressing socket</th> </tr> </thead> <tbody> <tr> <td>ADDR</td> <td>Connection for ASi-3 programming device</td> </tr> </tbody> </table> |   |   |            | Addressing socket |            | ADDR | Connection for ASi-3 programming device |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| Addressing socket   |   |   |            |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |
| ADDR  | Connection for ASi-3 programming device |   |            |                   |            |      |   |        |    |      |   |    |    |      |   |        |    |      |   |    |    |      |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |       |   |      |    |        |    |      |    |    |    |      |    |        |    |      |    |    |

| Double-deck terminal block, 2 x 4/5/6/7 poles (pitch 5 mm)         |  |
|--|--|
| <b>General</b>   |  |
| Nominal cross section  | 2.5 mm <sup>2</sup>                                  |
| <b>Conductor cross section</b>                                     |  |
| Conductor cross section solid                                      | 0.8 ... 2.5 mm <sup>2</sup>                          |
| Conductor cross section flexible                                   | 0.8 ... 2.5 mm <sup>2</sup>                          |
| Conductor cross section flexible, with ferrule                     | without plastic sleeve: 0.25 ... 2.5 mm <sup>2</sup> |
|  | with plastic sleeve: 0.25 ... 1.5 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, with TWIN ferrules | –  |
| AWG  | 28 ... 12  |
| Stripped insulation length   | 6 mm   |

| Programming hints: |   |
|--------------------|---|
| IO-Code            | 0 |
| ID-Code            | A |
| ID1-Code           | 7 |
| ID2-Code           | 0 |

### Accessories:

- Passive Distributor ASi to 1 x round cable/connecting wires (art. no. BW3186)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)