AS-i Interface for
XVB Illuminated Beacons and Indicating
Banks

Class 8340

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AS-i Interface for XVB Illuminated Beacons and Indicator Banks
Assembly with the AS-i Interface Module

Illuminated Beacons

The complete unit includes the following:

1. A base
2. A colored lens unit

Additional accessories include:

3. A support tube
4. Support tube concealment cover
5. Tulip for use with tube for mounting on a horizontal surface
6. Wall mounting bracket

Stackable Indicating Banks

It may include the following:

3. Support tube
4. Support tube concealment cover
5. Tulip for use with tube for mounting on a horizontal surface
6. Wall mounting bracket
7. One to four colored lens units, and/or
8. An audible sounder unit
9. A top cover, (except with a strobe)
10. AS-i interface module
11. Legends that attach to locking ring of individual signalling units for identification
Illuminated Indicator Bank Interface Module XVBC21A

- Illuminated indicator banks are visual or audible signaling units used mainly to indicate machine operation sequences and to check status from a distance. The illuminated units have 360° visibility.
- Application examples include: machine stop–start, no material, call technical staff, fault indication, etc.
- One quick connection to the AS-i control bus via a four-pin M12 connector provides status feedback and control of up to four stack light elements (indicator light, buzzer, etc.).
- For information on the complete offering of XVB stack light components and accessories, ask your local sales office for any of the following documents:
  - Square D Digest
  - Square D Digest Plus
  - Push Buttons and Operator Interface Specifiers Guide (Catalog No. 9001CT0001)
- Diagnostic LED indicators provided for quick system troubleshooting.

Selection

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-i adaptor unit for XVB stack lights (the adaptor must be the lowest unit on the column)</td>
<td>XVBC21A</td>
</tr>
</tbody>
</table>

Connections

An internal jumper allows selection between AS-i bus power and an auxiliary power supply (24 V). The AS-i bus power is for LED indicating lamps. Auxiliary power is recommended for incandescent lamps and strobes.

Environment

<table>
<thead>
<tr>
<th>Product Certifications</th>
<th>AS-i Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Air Temperature</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>+14 to 122 °F (−10 to +50 °C)</td>
</tr>
<tr>
<td>Storage</td>
<td>−4 to 158 °F (−20 to +70 °C)</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP65 (IEC 60529 – NF C 20-010) Type 4X indoor (UL508)</td>
</tr>
<tr>
<td>Materials</td>
<td>Glass-reinforced polyamide and polycarbonate</td>
</tr>
<tr>
<td>AS-i Bus Connection</td>
<td>M12 connector</td>
</tr>
</tbody>
</table>
# AS-i Interface for XVB Illuminated Beacons and Indicator Banks

## Specifications

### Electrical Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>From the AS-i bus</th>
<th>AS-i bus power plus 24 Vdc auxiliary supply</th>
</tr>
</thead>
</table>

**Lamp Options**
- LED lamps only
- LED and incandescent

**Element Usage**
- 4 elements max. (e.g. 3 LEDs + 1 buzzer)
- 4 elements max.

**Current Consumption from Bus**
- 30 to 230 mA
- 30 mA
- —

**Output Current**
- 200 mA
- —
- 2 A

**Short-circuit Protection**
- 200 mA
- 0.7 A

**Approvals**
- UL File E164353, CSA File LR 44087

1 Protection extra low voltage, according to IEC 947-5-1

### Data Exchange Specifications

<table>
<thead>
<tr>
<th>AS-i Profile</th>
<th>S 7.F</th>
</tr>
</thead>
</table>

**Bit Value**

**Input Data Bits (Status)**

<table>
<thead>
<tr>
<th>D0</th>
<th>Element 1</th>
<th>Fault</th>
<th>Okay</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Element 2</td>
<td>Fault</td>
<td>Okay</td>
</tr>
<tr>
<td>D2</td>
<td>Element 3</td>
<td>Fault</td>
<td>Okay</td>
</tr>
<tr>
<td>D3</td>
<td>Element 4</td>
<td>Fault</td>
<td>Okay</td>
</tr>
</tbody>
</table>

**Output Data Bits (Commands)**

<table>
<thead>
<tr>
<th>D0</th>
<th>Element 1</th>
<th>Off</th>
<th>On</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Element 2</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>D2</td>
<td>Element 3</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>D3</td>
<td>Element 4</td>
<td>Off</td>
<td>On</td>
</tr>
</tbody>
</table>

**Parameter Bits**

<table>
<thead>
<tr>
<th>P0</th>
<th>Element 1</th>
<th>Blinking when on</th>
<th>Steady when on</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Element 2</td>
<td>Blinking when on</td>
<td>Steady when on</td>
</tr>
<tr>
<td>P2</td>
<td>Element 3</td>
<td>Blinking when on</td>
<td>Steady when on</td>
</tr>
<tr>
<td>P3</td>
<td>Element 4</td>
<td>Blinking when on</td>
<td>Steady when on</td>
</tr>
</tbody>
</table>

To accomplish a flashing function, do not use flashing indicator lens XVBL4*. Instead, use the parameter setting bit.

### LED Indicator

<table>
<thead>
<tr>
<th>Color</th>
<th>State</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>green</td>
<td>steady-on</td>
<td>AS-i bus is okay</td>
</tr>
<tr>
<td>red</td>
<td>steady-on</td>
<td>Bus communication error</td>
</tr>
<tr>
<td>red</td>
<td>blinking-on</td>
<td>Peripheral device error</td>
</tr>
</tbody>
</table>

* LED Indicator

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Square D Company  
8001 Highway 64 East  
Knightdale, NC 27545  
1-888-SquareD  
(1-888-778-2733)  
www.SquareD.com  

Schneider Canada Inc.  
19 Waterman Avenue,  
M4B 1 Y2  
Toronto, Ontario  
1-800-565-6699  
www.schneider-electric.ca  
Catalog No. 8340CT0103  
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