**SENTINEL VPT Specification**

**AMYB-1120-420 / AMYB-5120-420 / AMYB-E120-420**

### General Specifications
- **Nema Rating**: 4, 4X, 7, 9
- **Housing / Cover**: Aluminum
- **Indicator Cover**: Ektar
- **Seals**: BUNA-N
- **Fasteners**: Stainless Steel
- **Terminal Points**: 12
- **Weight**: 4.25 lbs.
- **Operating Temp.**: -40° F to 175° F

### How To Specify
Valve position transmitter shall be Moniteur model AMYB-1120/5120/E120-420. Enclosure shall be aluminum with a polyurethane coating and rated Nema 4, 4X, 7 & 9. Visual indicator shall have 100% display change, 360° visibility and full set point adjustability. Indicator cover shall be free of decals or paint and sealed with an O-ring. Enclosure shall have captive cover bolts. Enclosure shaft shall be attached to a sintered bronze housing bearing with an internal stainless steel locking ring, environmentally protected with an O-ring. The switch/sensor type shall be Cherry Mechanical rated 15A/250VAC - 2.5A/24 VDC. A total of two (2) switches shall be included along with twelve terminal points. A 4-20 mA position feedback transmitter shall also be included. All switches and terminals must be enclosed and marked for simple identification.

### Wiring Diagram
- SWITCH 1: NC, C, NO
- SWITCH 2: NC, C, NO
- Optional Solenoid Valve #1
- 4-20 mA Output

### Specifications - 4-20mA Output
- **Power Supply Rating**: 10 - 38 VDC loop power
- **Recommended Power Supply**: 24 VDC
- **Output Signal**: 4 - 20 mA
- **Load Impedance**: 0 - 1000 ohms at 24 VDC
- **Max. Output**: 55 mA DC
- **Rotation Range**: 80° - 105°
- **Linearity**: +/- 1.0% of full scale
- **Hysteresis**: 0.55% of full scale
- **Repeatability**: +/- 0.3% of full scale
- **Environmental protection**: conformal coating

### Agency Approvals: UL and CSA
- Class I, Division 1, Group C & D
- Class II, Division 1, Group E, F, G

### Part Number Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong>: Sentinel</td>
<td>A</td>
<td><strong>Shaft</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Cover</strong>: With Moniteur</td>
<td>M</td>
<td><strong>Low Profile NAMUR 303 SS</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Moniteur</strong>: Black / Yellow</td>
<td>Y</td>
<td><strong>Standard NAMUR 303 SS</strong></td>
<td>E</td>
</tr>
<tr>
<td><strong>Bearing</strong>: Bronze</td>
<td>B</td>
<td><strong>Switch Type</strong></td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Switch</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Conduit</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Switch Quantity</strong></td>
<td>-420</td>
</tr>
<tr>
<td><strong>Conduit (2) 1/2&quot; F NPT</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>-420</td>
</tr>
</tbody>
</table>

---

**MONITEUR DEVICES INCORPORATED**

36 Commerce Road, Cedar Grove, NJ 07009  Tel. (973) 857-1600  Fax (973) 857-7289

www.moniteurdevices.com