The 3DLevelScanner - Model S determines the average volume of bulk solids stored in small silos with diameters of up to 13 feet (4 m). It incorporates a non-contact dust-penetrating technology enabling it to overcome the challenges of harsh, dusty environments in many applications.

**How It Works**

The 3DLevelScanner employs an array of antennas to transmit low frequency pulses and to receive echoes of the pulses from the contents of the silo, bin, and other containers. The unit measures the time/distance of each echo as well as its direction. The device’s Digital Signal Processor samples and analyzes the received signals to provide very accurate measurements of the level and volume of the stored contents.

**FEATURES AND BENEFITS**

**Increase Accuracy and Performance**
- Multi-point accuracy
- Low power consumption
- Dust penetrating, low frequency technology
- Long measurement range

**Easy to Maintain**
- Upgrade firmware remotely
- Remote configuration and communication
- System redundancy with 3 independent transmitters/receivers
- Non-contact measurement

**Better Inventory Controls**
- Reduce safety stock with more accurate inventory levels
- Reduce carrying costs through improved accuracy
- Improve the quality of your process

**Use in Real World Applications**
- Use with silos, open bins, etc.
- Works with all solid materials
- Easy navigation with 4-button LCD display

**View the product movie:**

[3DLevel Scanner Model S]
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Temperature</td>
<td>-40 to 185°F (-40° to 85° C)</td>
</tr>
<tr>
<td>Process Pressure</td>
<td>-2.9 to 14.5 psi (-0.2 to 1 bar)</td>
</tr>
<tr>
<td>Signal Output</td>
<td>4-20mA, HART, RS485, Modbus</td>
</tr>
<tr>
<td>Housing Materials</td>
<td>Aluminum Die Cast</td>
</tr>
<tr>
<td>Power Supply</td>
<td>20-32 VDC</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Max 4VA; Max 3 W</td>
</tr>
<tr>
<td>Beam Angle</td>
<td>30°</td>
</tr>
<tr>
<td>Blind Space</td>
<td>8”</td>
</tr>
<tr>
<td>Max Measuring Height</td>
<td>230’</td>
</tr>
<tr>
<td>Max Measuring Diameter</td>
<td>13’</td>
</tr>
<tr>
<td>Approvals</td>
<td>ATEX, FM, CSA, CE, FCC</td>
</tr>
<tr>
<td>Cable Entry/Conduit Connection</td>
<td>2 x 0.5” NPT</td>
</tr>
<tr>
<td>Housing Protection Rating</td>
<td>IP67</td>
</tr>
</tbody>
</table>

### How To Order

**TYPE**
- S  Level Scanner

**APPROVALS**
- XX  None
- FX  FM Intrinsically Safe Class I, II, Division I, Groups C, D, E, F, & G

**VERSION**
- B  Horn Antenna

**PROCESS CONNECTION**
- GD  Thread 1.93” - 8 UN
- AE  8” Flange Plate and Gasket (makes tp 8” 150 lb ANSI Flange)
- AF  10” Flange Plate and Gasket (makes tp 10” 150 lb ANSI Flange)
- AX  10” O.D. Mounting Plate (0.32” Thru Holes)

**ELECTRONICS**
- V  4-20mA/HART Output - 4 Wire (includes RS 485/Modbus connection)

**CABLE ENTRY / CONDUIT CONNECTION**
- N  2 each - .5” NPT Female

**NECK EXTENSION**
- A  Without
- B  200mm
- C  300mm
- D  500mm

**OPTIONAL HEAD SEPARATION**
- If no selection, leave blank.
- B  3’
- C  8’
- D  33’