

### Customer

Pharmaceutical Industry

### Customer Requirements

Detect level of tablet or pile in bottle

### Orchid Solution :

Laser displacement sensor

### Product features

- Versatile ,Rugged laser displacement sensor
- Housing rated to IP69K With FDA grade stainless steel
- Reliable detects opaque and transparent objects
- Easy to Use, problem solver
- Bright LED output indicator
- Real time distance feedback
- 18 mm dia Cylindrical housing and also side mounting
- Class 1 laser with highly visible laser
- Minimum object detection size 0.5 mm
- Analog resolution < 1 mm

### Customer benefits

- Easily programmable via display & buttons
- Housing rated to IP69K With FDA grade stainless steel
- It can be work in Wash down area because of IP69K
- Compact design

### Products Look



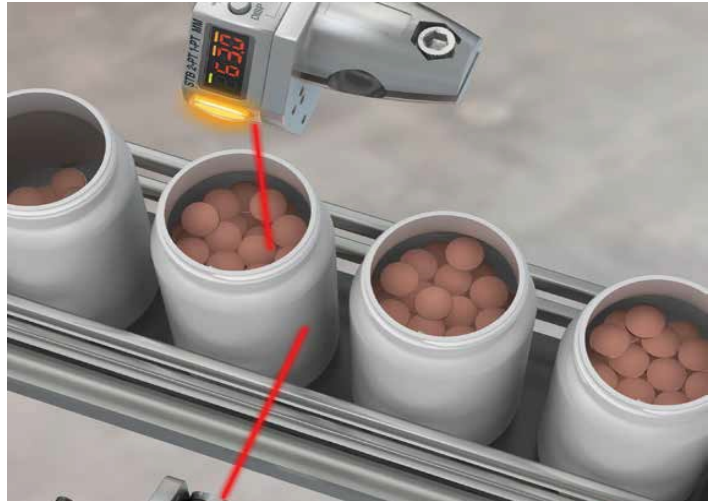
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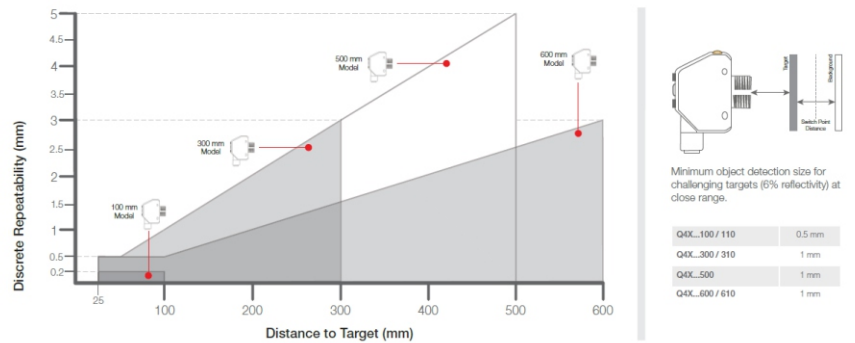
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### Pictorial View of application



Distance: Precision Measurement and Detection Regardless of Target



### Challenge

To ensure the quantity of tablets in a bottle is correct

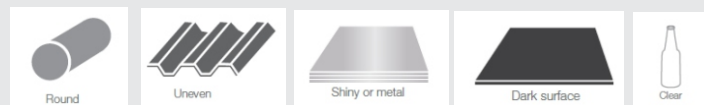
### Application

Measuring the fill level of pills or tablets in a bottle , it helps ensure that the quantity inside the bottle is correct. However, the shape, edges and gaps between pills create an inconsistent surface which is difficult to measure

### Solution

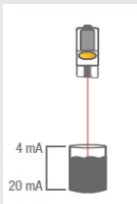
Laser analog sensor set up in trigger mode uses the averaging feature provides more consistent fill level measurement. A laser contrast sensor detects the leading edge of each bottle and uses a one-shot output timer to determine when and how long the laser sensor will measure. The Laser sensor will measure across the varying surface inside the bole & outputs a single analog value based on the average measurement

### Challenging Targets



Dynamically adjusted laser power increases output for dark targets or objects at steep or uneven angles , while reducing power of shiny targets, providing accurate measurements across a wide range of challenging targets

### Analog 4-20 mA or 0-10 VDC Laser Sensor



Analog output for continuous measurement of part size ,position or fill level