The Industry’s Smallest Laser Measurement Sensor

CD22 Series

The Industry’s Smallest
18mm W x 31mm D x 44mm H

High performance cost effective self contained measurement sensor in an innovative compact housing.

- Dedicated Hybrid Lens
- Original All In One Technology
- High Quality Feedback Circuitry
- Detects Various Materials from Black Rubber to Polished Metals with High Accuracy & Resolution

Onboard digital display with user friendly set-up and adjustment

- Output Indicator
- Zero Adjust Indicator
- Manual Adjust Indicator
- Laser On Indicator

Bright 4 digit display with user interface. Foreground and Background suppression teaching modes.

High Accuracy Stable Sensing with Excellent Linearity.

Repeat Accuracy: 1µm (CD22-15□M12)

Linearity: ±0.1 F.S.

800-280-6933  |  www.optex-ramco.com
**Line Up**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Measurement Range</th>
<th>Repeat Accuracy</th>
<th>Analog output</th>
<th>Line up</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD22-15AM12</td>
<td>15±5mm</td>
<td>1µm</td>
<td>4.20mA</td>
<td>CD22-15AM12</td>
</tr>
<tr>
<td>CD22-15VM12</td>
<td></td>
<td></td>
<td>0.10V</td>
<td>CD22-15VM12</td>
</tr>
<tr>
<td>CD22-35AM12</td>
<td>35±15mm</td>
<td>6µm</td>
<td>4.20mA</td>
<td>CD22-35AM12</td>
</tr>
<tr>
<td>CD22-35VM12</td>
<td></td>
<td></td>
<td>0.10V</td>
<td>CD22-35VM12</td>
</tr>
<tr>
<td>CD22-100AM12</td>
<td>100±50mm</td>
<td>20µm</td>
<td>4.20mA</td>
<td>CD22-100AM12</td>
</tr>
<tr>
<td>CD22-100VM12</td>
<td></td>
<td></td>
<td>0.10V</td>
<td>CD22-100VM12</td>
</tr>
</tbody>
</table>

**Applications**

- Detecting Small Parts in a Nest
- Detection of Thin Double Sheets
- Loop Control of Rubber Extrusion
- Measuring Thickness of Thin Film Electrode

**Part Number, Aluminum Housing**

- CD22-15AM12: CD22-15AM12
- CD22-35AM12: CD22-35AM12
- CD22-100AM12: CD22-100AM12

**Center of measurement range**

- 15mm
- 35mm
- 100mm

**Measurement range**

- ±5mm
- ±15mm
- ±50mm

**Light source**

- Red laser Diode (wave length 650nm)

**Specifications**

- Max. output: 390 µW
- Max output: 1mW

**Applications**

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**Contact Information**

Ramco Innovations
www.Optex-Ramco.com
800-280-6933

- *Fastus is a registered trademark of Optex FA*

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1. Defined with center strength 1/e² (13.5%) at the center. There may be leak light other than the specified spot size. The sensor may be affected when there is a highly reflective object close to the detection area.

2. S12 averaging time

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*Specifications per output*

<table>
<thead>
<tr>
<th>Part number</th>
<th>CD22□-□□□V</th>
<th>CD22□-□□□A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Voltage output</td>
<td>Current output</td>
</tr>
<tr>
<td>Analog output range</td>
<td>0 – 10V</td>
<td>4 – 20 mA</td>
</tr>
<tr>
<td>Maximum load impedance</td>
<td>--</td>
<td>300Ω</td>
</tr>
<tr>
<td>Output impedance</td>
<td>100Ω</td>
<td>--</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC18-24V±10%</td>
<td>DC12-24V±10%</td>
</tr>
</tbody>
</table>

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- M12 type
- Requires M12 5 pin cable
- M8 connector option available
- Stainless steel housing option available
- Serial output type coming soon

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*The specifications are based on the condition unless otherwise designated: Ambient temperature: 23°C Supply voltage: 24VDC, Sampling period: 500 µs, Averaging: 64, Measuring distance: Center of the range, Testing object: White ceramic.*

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