ZL

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**Safety Standard.**

- The emitters of through beam 'yk are rated as Class ‡U by the FDA.

**Meanings of Safety Symbol**

- Spot size ƒÓ12mm/10m ƒÓ2mm/400mm

**Precautions for using laser**

- Operating Precautions
  - Please read this manual before using the sensor, and retain it for future reference.
  - Thank you for purchasing the ZL series.
  - Supply voltage
  - Carefully read and understand the safety precautions before operation.
  - Sensing range: 0.08–10m 400mm

**WARNING**

- For Devices and Radiological Health.

- For details, contact our Customer Service.

**Certification**

- When exporting laser devices to the US, the US laser control, FDA (Food and Drug Administration) is applied. This product has been already reported to CDRH (Center for Devices and Radiological Health).

**Others**

- ZT-DL/DLC ZT-DL/DLC

**Specifications**

- Model Retro ref. type
- Diffuse ref. type
- Laser Photoelectric Sensor

**Laser Photoelectric Sensor**

- Laser label

**Operating Mode**

- Hysteresis
- Response time
- Sensitivity adjustment
- Control output
- Indicator light
- Output indicator light

**Specifications**

- Peak power
- Light source
- CLASS
- IEC/JIS CLASS
- Absorption
- Peak absorption

**Dimensions**

- M8 Connector
- ZR-L1000CN/CP
- ZD-L40CN/CP
- Cable
- ZR-L1000N/P
- ZD-L40N/P

**Operating temp./humidity**

- -25–+70℃/35–95%RH  No condensation or freezing
- -10–+50℃/35–85%RH  No condensation or freezing

**Storage temp./humidity**

- 20% max. /400mm

**Input type**

- NPN/PNP open collector

**Input power**

- 100mA max. /30V DC

**Current consumption**

- 15mA max.

**Input voltage**

- 10–30VDC Including 10% ripple

**Resistance**

- 3,000 lx (Incandescent light) 10,000 lx (Sunlight)

**Electrical Characteristics**

- Laser radiation indicator light (Receiver of Through beam type) Green
- Stable indicator (green)

**Other**

- Class ‡U
- IP67

**Material**

- ABS (Case)
- PMMA (front window)

**Website**

- www.Optex-Ramco.com

**Got Questions?** 1-800-280-6933

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