LASER TYPE LEVEL INDICATOR LASER SERIES



Non-contacting type of long span/pinpoint measurement.

Best suitable for places where it is highly difficult or dangerous to measure!!



■ Features

- Non-contacting measurement up to 30m at the maximum can be possible.
- It is possible to measure by pinpoint at the places where there are many obstructions.
- You can visually observe the measuring spot as it is dotted in red.
- It is possible to measure from outside through an observation window or hole on a tank and so on if any.
- Variously optional products to meet customers' needs.

■ Applications

- Collision avoidance of an overhead traveling crane.
- •To measure the stuff thickness of extruder/winder.
- •To measure level of garbage, ash and others in a waste disposal plant.
- •Level measurement at crushing and grinding plant.
- •To measure food, processed stuffs and others in a non-contact manner.

Standard Specification

Type: LASER RANG-L

Range: 0.2-30m (varied by conditions)

Output: 4-20mA DC Load Resistance

below 300Ω

Temperature: -10°C to +45°C

(No freezing, No condensation)

Housing Rating: IP54 equivalent

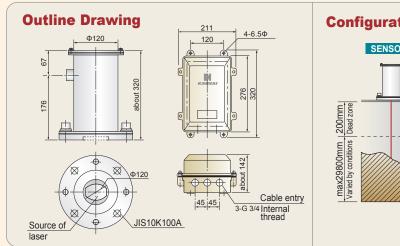
Hounsing Material: Flange: 304SS Sensor: 304SS

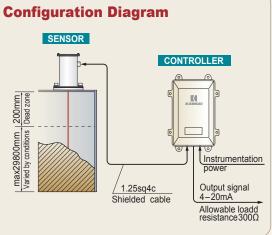
Controller: Aluminum mold

Laser Specification : Class 2 Semiconductor laser

radiation, 620-690nm 0.95mW max

Power Voltage: 90–240VAC or 24VDC Power Consumption: 0.34A (at 100VAC)







■ Features

- •Non-contacting measurement up to 10m at the maximum can be possible.
- Besides the advantages of Laser Rang-L, it is compact, light and budget-priced.
- It is possible to measure from outside through an observation window or hole on a tank and so on if any.
- •The measuring range is adjusted before shipment, and no other adjustment is needed after wiring/installation.

■Applications

- •To measure the distance to the face of chromatic object in a tank.
- ■To measure level in an open vessel with the unit fixed on ceiling.
- •Level measurement at crushing and grinding plant.
- To measure food, processed stuffs and others in a non-contacting manner.

Standard Specification

Type: LASER RANG-S

Range: 0.2-10m (varied by conditions)

Output: 4-20mA DC Load Resistance

below 300Ω

Cable: with cable in 5m

Temperature : -10°C to +45°C

(No freezing, No condensation)

Housing Rating: IP43 equivalent

Hounsing Material: PVC

Laser Specification: Class 2 Semiconductor laser

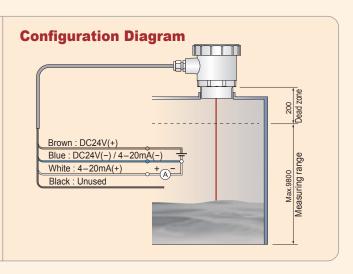
radiation, 620-690nm

0.95mW max

Power Voltage : 24VDC ±10%

Power Consumption: 150mA

Outline Drawing Case PVC Cable 5m Mounting screw G2 Lens Mounting screw Laser Radiation Acceptance surface





■ Features

- •A pair of facing units can be separated by 20m at the maximum.
- Built-in interlock circuit.
- Built-in delay circuit preventing any glitch.
- Built-in alarm lamp while laser is emitting.

■ Applications

 Control the filter cloth position of sludge processor.

vapor and dust, whose detection was not easy with conventional photoelectric switches.

- Detecting falling objects from a conveyor belt.
- Control level of crushed papers.

Standard Specification

Type: TK-LASER-TN/RN

Measuring Range: Distance of two facing units within 20m

Output: 1 SPDT 250VAC 10A ON Delay 0.1–10sec variable

Temperature: -10°C to +50°C

(No freezing, No condensation)

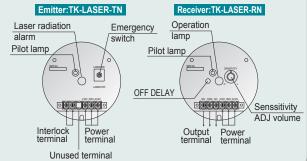
Housing Rating: IP54 equivalent Hounsing Material: Case: ADC

Flange : AC Boss, Lightproof pipe:304SS Laser: Class 3A Semiconductor laser

Specification: radiation, below 635nm 5mW Power Volyage: 105/210VAC ±10%

Power Consumption: TN: 20VA, RN: 10VA

Outline Drawing Protect. Cover about 180 (Chilled glass) 9 Boss Material:304SS JIS5K65A Wire entry Material:ADC Flange **Configuration Diagram** Emitter:TK-LASER-TN Receiver:TK-LASER-RN Laser radiation Operation Emergency alarm switch Pilot lamr Pilot lamp



*Make sure of the notes on the right in order to safely use LASER RANG -L LASER RANG -S & TK- LASER TN/RN.



- The power density of laser beam is high and may pose a danger to public health Take adequate safety measures.
- Never peer into the lens. Taking a long look at laser beam may seriously harm your

■ Class	of Vis	sible-light	Laser	(400 – 700nm)
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	Class 1	Class 2	Class 3A	Class 3B
Opticer	below 6.8 μ W	below 1mW	below 5mW	below 0.5W
Danger	Intrinsically safe in design			Visual observation into the beam is dangerous.
Class label	Required	"Caution" label		"Danger"label

Line of business

- Rotary Paddle Type Level Switch
- Vibration Type Level Switch
- · Swing Type Level Switch
- · Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
- Capacitance Type Level Indicator
- · Diaphragm Type Level Switch
- · Tilt Switch
- · Leak Type Level Switch
- · Microwave Type Switch
- · Sounding Bob Type Level Indicator · Ultrasonic Flow meter

- · Conductance Type Level Switch
- · Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- · Zirconia Oxvgen Analyzer
- · Laser Type Level Indicator
- RADAR Type Level Indicator
- · On-line Sensors for Accurate Liquid Analysis
- · Flow Switch

*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument.

*The specifications herein may be subject to change without advance notice.

Nuclear Power Generation to Rice Milling All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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