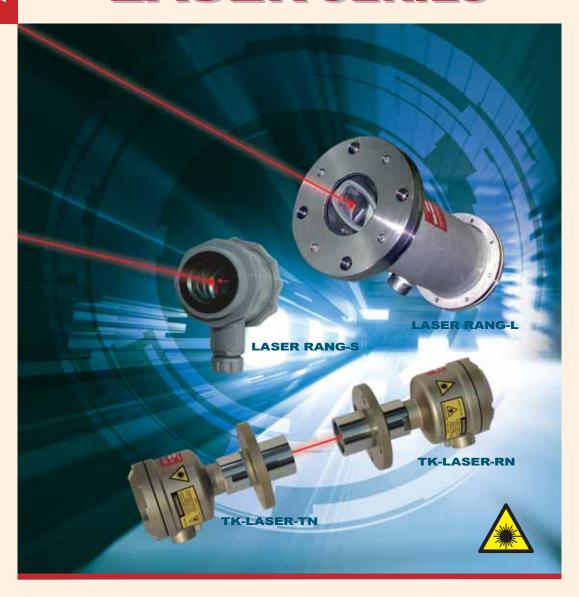


LASER TYPE LEVEL INDICATOR LASER SERIES



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 level of sorbage, sob and others in
- *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-contacting

STANDARD SPECIFICATION

TYPE: LASER RANG-L

RANGE: 0.2~30m (varied by conditions)

OUTPUT: DC4~20mA Load Resistance

below 300Ω

TEMPERATURE: -10~+45°C (No freezing,

(No freezing,no condensation)

HOUSING RATING: IP54 equivalent

HOUNSING MATERIAL: Flange: 304SS Sensor: 304SS

Controller: Aluminum mold LASER SPECIFICATION: Class 2 Semiconductor laser

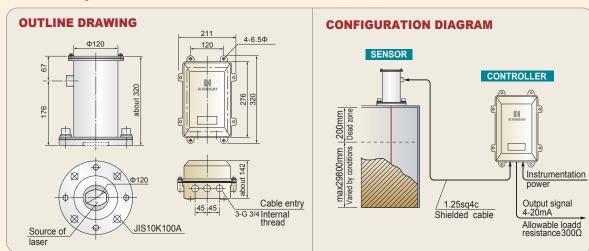
radiation, 620-690nm

radiation, 620-690n

POWER VOLTAGE: 0.95mWmax

POWER CONSUMPTION: 90~240VAC or 24VDC

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: DC4~20mA Load Resistance

below $300\Omega\,$

CABLE: with cable in 5m

TEMPERATURE: -10~+45°C (No freezing,

no condensation)

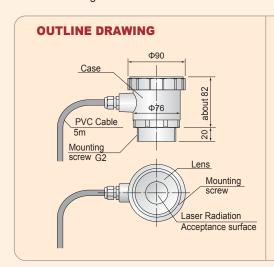
HOUSING RATING: IP43 equivalent

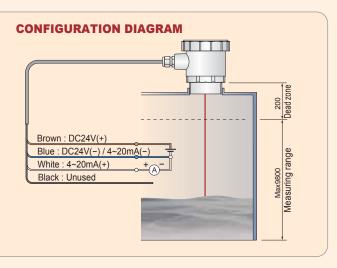
HOUNSING MATERIAL: PVC

LASER SPECIFICATION: Class 2 Semiconductor laser

radiation, 620-690nm 0.95mWmax

POWER VOLTAGE: 24VDC ±10% POWER CONSUMPTION: 150mA







■ 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

APPLICATIONS

- Control the filter-cloth position of sludge processor.
- 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: 1SPDT 250VAC 10A

ON Delay 0.1~10sec variable

TEMPERATURE: -10~+50°C

(No freezing,no condensation)

HOUSING RATING: IP54 equivalent HOUNSING MATERIAL: Case: ADC

Flange: AC

Boss, Lightproof pipe: SUS304 LASER: Class 3A Semiconductor laser SPECIFICATION: radiation, below 635nm5mW

POWER VOLYAGE: 105 / 210VAC ±10% POWER CONSUMPTION: TN: 20VA RN: 10VA

OUTLINE DRAWING Protect. Cover about 180 (Chilled glass) Boss Mater:304SS JIS5K65A Wire entry Material:ADC Flange **CONFIGURATION DIAGRAM** Emitter:TK-LASER-TN Receiver:TK-LASER-RN Operation Laser radiation Emergency lamp switch Pilot lamp Pilot lamp OFF DELAY Senssitivity ADJ volume Power Output Power terminal terminal Unused terminal

*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 1	Class 2	Class3A	Class3B		
Opticer	below 6.8É W	below 1mW	below 5mW	below o.5W		
Danger	Intrinsically safe in design			Visual observation into the beam is dangerous.		
Class Jahal	Peguired	"Coution" lobal		"Dongor"lohol		

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 Switch

- · Float Type Level Indicator

· Conductance Type Level Switch

- 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
- Sounding Bob Type Level Indicator Ultrasonic Flow meter
- · 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.

■ CLASS OF VISIBLE-LIGHT LASER (400-700nm)

	Class 1	Class 2	Class3A	Class3B
Opticer	below 6.8É W	below 1mW	below 5mW	below o.5W
Danger	Intrinsically safe in design			Visual observation into the beam is dangerous.
Class label	Required	"Caution" label		"Danger"label

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