

NEW PRODUCT SCANNING LASER RANGE FINDER

UST-05LN UST-05LA

Features

- Wide detection range
- Fast response
- More flexible settings
- The smallest and the lightest of its kind

Applications

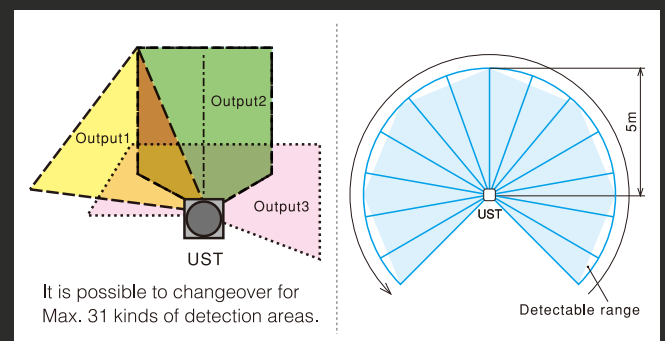
- Obstacle detection
- Presence detection



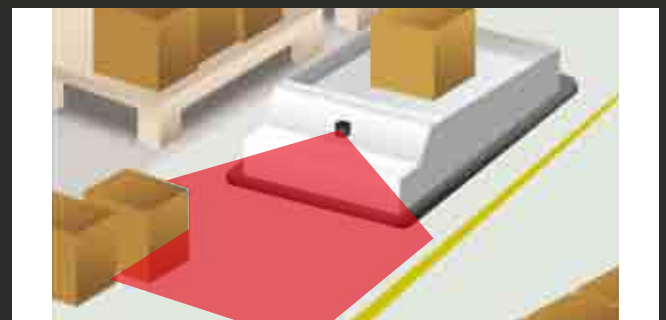
Specifications

Part No.	UST-05LN / UST-05LA
Power supply	12VDC / 24VDC (10-30VDC ripple: 10% or less)
Consumption current	150mA or less (300mA when switching on)
Light source	Semiconductor laser (905nm), class 1 eye safe
Distance	60-5,000mm (White sheet) 60-2,000mm (Black sheet with 10% reflectivity)
Distance accuracy	40mm
Repeatability	$\sigma < 30\text{mm}$
Scanning angle	270°
Scanning time	25ms per scan
Angular resolution	0.5°
Start-up time	10ms or less
Area pattern	31 patterns
Output	Photo coupler / Open collector Output 1, 2 & 3 : area detection Output 4 : malfunction (Normally ON) Output 5 : Sync. Output
Response time	66ms or less Extra 1 scan time is needed during area switching
Interface	USB / RS422 (only for UST-05LA)
Indicator LED	Power (blue): Blinking during start-up and malfunction Output 1 (orange): ON when obstacle detected in area Output 2 (orange): ON when obstacle detected in area Output 3 (orange): ON when obstacle detected in area
Ambient temperature	-10 to 50 °C
Protective structure	IP65
Weight	130g (excluding cable)

System structure



Applications



- Obstacle detection of AGVs



- Load shifting detection