



Feature

- Supply voltage 10~30V
- Measurement distance 30m
- Field of view 190°
- Interface Ethernet
- Multi-echo
- IP67

Specifications

Model No.	UXM-30LX-EW
Power source	DC10 to 30V
Light source	Laser diode ($\lambda = 905\text{nm}$) Class 1 (FDA)
Supply Current	Regular current: DC10V(<600mA), DC12V(<600mA), DC24V(<250mA) Start-up current: DC10V(<2A), DC12V(<1.5A), DC24V(<0.75A)
Power consumption	<6W (regular)
Detection range & Detectable width	Assured detection: 0.1 to 30m ^{*2} , Max. detectable distance: 100m (limitation of data output) Black(diffuse reflectance 10%), 500 mm × 500 mm Min. detectable width: $\phi 65\text{mm}$ (5m), $\phi 130\text{mm}$ (10m), $\phi 400\text{mm}$ (30m)
Accuracy	Under 3,000lx : $\pm 50\text{mm}^{*1}$ (Black diffuse reflectance 10% at 10m, White Kent Sheet at 30m) Under 100,000lx : $\pm 100\text{mm}^{*1}$ (Black diffuse reflectance 10% at 10m, White Kent Sheet at 30m)
Measurement resolution & Repeated accuracy	1mm Under 3,000lx : $\sigma < 50\text{mm}$ (Black diffuse reflectance 10% up to 10m, White Kent Sheet up to 30m) Under 100,000lx : $\sigma < 100\text{mm}$ (Black diffuse reflectance 10% up to 10m, White Kent Sheet up to 30m)
Scanning angle	190°
Angular resolution	0.25°(360°/1440)
Scanning speed	50ms (Motor speed : 1200rpm)
Interface	Ethernet 100BASE-TX (Auto-negotiation)
Output signal	2 Output signal: Error output, Synchronous output

Indication light	Power (Green), Operation/Error (Orange) : Operating (ON), Error (blink)
Ambient condition (Temperature, Humidity)	Operating: -10 to +50 degrees C 85%RH (Without condensation and frost)
Environmental resistance	Measured distance will be shorter than actual distance under rain, snow and direct sunlight working environment *2
Vibration resistance	10 to 55Hz double amplitude of 1.5mm in X,Y,Z direction for 2 hrs. 55 to 200Hz, 19.6 m/s ² sweep 2 min, in X, Y, Z direction , 1hr for each direction
Shock resistance	196m/s ² 10 times each in X, Y, Z directions
Protection structure	IP67
Insulation resistance	10MΩ
Weight	800g
Casing material	Front casing & optical window: Polycarbonate Rear casing: Aluminum
Dimensions(W×D×H)	124mm×126mm×150mm (excluding connector)

*1 Measurement under direct interference light is not assured (Sunlight etc.).

*2 Please verify the actual performance of the sensor under the intended working environment conditions

External dimension

