



Scanning Laser Range Finder

UXM-30LX-EW for Outdoor applications

- Ethernet Interface
- Multi-Echo Detection for Outdoor Applications
- IP67

Detectable in Snowy, Rainy, Foggy and Dusty conditions.



Provisional Specification

Products	Laser Range Finder
Model number	UXM-30LX-EW
Supply voltage	10 to 30VDC
Consumption current	During operation : 500mA or less at 10/12VDC, 250mA or less at 24VDC Start-up : 2A or less at 10VDC, 1.5A or less at 12VDC, 0.75A or less at 24VDC
Light source	Laser diode $\lambda=905\text{nm}$, Laser class 1
Principle	Direct Time of Flight
Detection range	0.1 to 30m *1 Black(diffuse reflectance 10%, 500mm X 500mm), 190°
Multi-Echo function	Max. 3-output of distance data per step
Accuracy	Under 3,000lux or less : 0.1 to 10m $\pm 50\text{mm}^{*2}$ (Black: diffuse reflectance 10%, 500mm X 500mm) Under 100,000lux or less : 0.1 to 30m $\pm 100\text{mm}^{*2}$ (Black: diffuse reflectance 10%, 500mm X 500mm)*2
Angular Resolution	0.25°
Scanning Speed	50msec/scan (Motor speed : 1200rpm)
Interface	Ethernet 100BASE-TX (Auto-negotiation), TCP/IP Synchronous output , Trouble output (Nch Open drain output 30VDC 100mA or less)
Indication lamp	Power(Green), Operating/Trouble (Orange) Operating : light-up Trouble : blink
Communication protocol	SCIP2.2 (Exclusive command)
Connection	Power source / output (cable 2m length), Ethernet (Connector model 09-0431-87-04 Binder products *3)
Ambient temperature and humidity	10 to +50°C (-25 to +75°C when stored), 85%RH or less (without condensing and icing)
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz for each 2 hours in X, Y and Z directions
Impact resistance	196m/s ² , each 10 times in X, Y and Z directions
Protective structure	IP67 (IEC standard)
Weight	Approx. 800g (not including the cable weight)

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

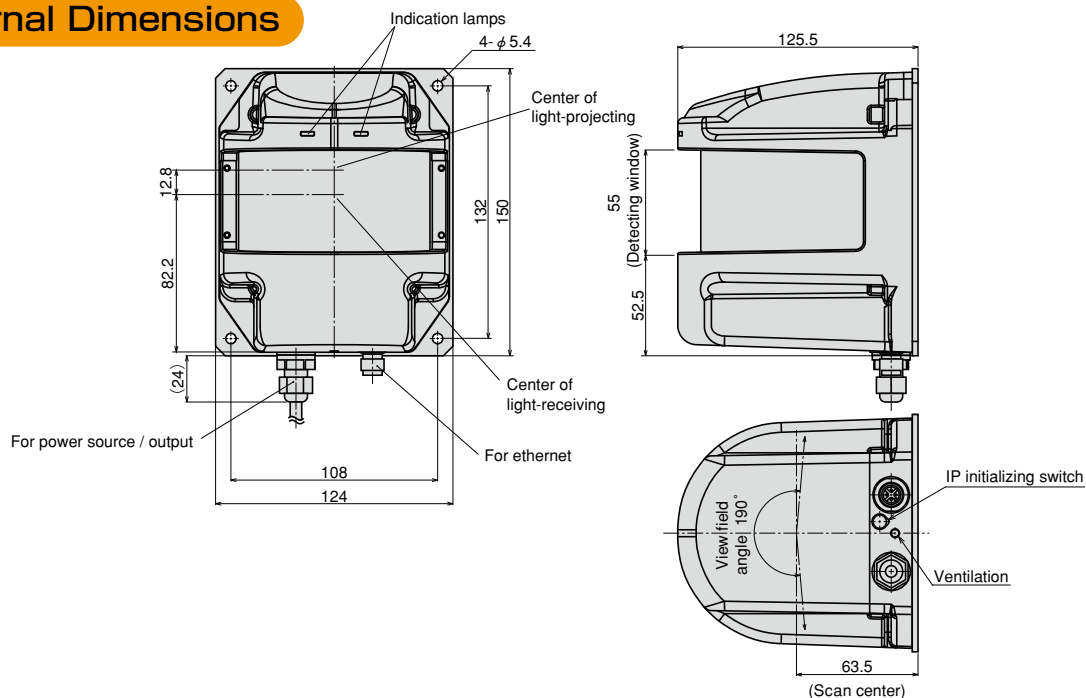
*2 Measurement under direct interference light is not assured (Sunlight, etc.).

*3 The other side : Binder products 99-0430-57-04 (Option).

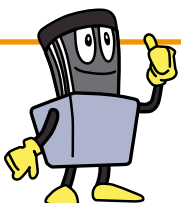
Note) This model is not a safety rated product.

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External Dimensions



★All information in this catalog is subject to change without notice.



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