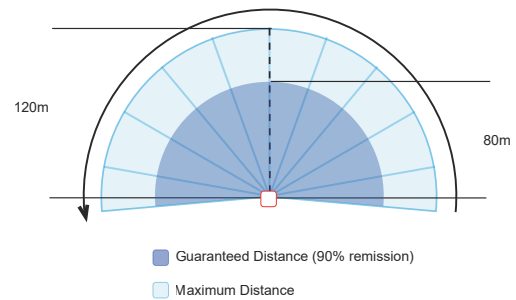


CE

UXM-30LXH-EHA



At a glance

- Max. range for data output : 120m
- Data output is available by Ethernet
- Multi-echo function is available
- Angular resolution 0.125°
- IP67 protection and hard-coated optical window
- Size : W124xD126xH150mm
- Weight : 1200g

Type	Model	Maximum distance	Highest resolution	Multi echo
Data output	UXM-30LXH-EHA	120m	0.125°	○
	UXM-30LXH-EWA	120m	0.125°	○
	UGM-50LXP / LXN	160m	0.08°	○

Product description

- 2D laser scanner for data output
- Distance and intensity data is available via Ethernet
- Thanks to the multi-echo function and its robust housing, it is ideal for outdoor applications such as ports and highways

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Specification		UXM-30LXH-EHA
Electronics	Supply voltage	10VDC to 30VDC
	Supply current	600mA or less (12VDC), 300mA or less (24VDC)
	Start-up time	Within 30sec
	Light source	Laser semiconductor (905nm), Laser class 1
Detection	Maximum distance (Data output)	0.1~120m
	Guaranteed distance (w/ white 90% remission)	80m
	Guaranteed distance (w/ black 10% remission)	30m
	Distance accuracy	± 30mm (0.1 to 30m w/ white 90% remission, 1,000lux or less)
	Standard deviation	$\sigma < 10\text{mm}$ (0.1 to 30m w/ white 90% remission, 1,000lux or less)
	Angle	190°
	Scanning speed	50msec
	Angular resolution	0.125°
Function	Multi echo	Available
	LED indicator	Green : Power, Orange : Communication
Interface / Driver	Interface	Ethernet
	Driver	ROS1 / ROS 2
General	Ambient illuminance	100,000lx (Note : avoid direct sunlight)
	Ambient operating temperature and humidity	Temperature : -30~50°C (heater in use) Humidity : below 85%RH (without dew, frost)
	Vibration resistance	10 to 55Hz double amplitude of 1.5mm 55 to 200Hz 98m/s ² sweep of 2min
	Shock resistance	196m/s ² (20G)
	Insulation resistance	10MΩ / 500VDC
	IP protection	IP67
	Weight	1200g
	Size W x D x H (mm)	124 x 126 x 150
	Material	Optical window : Polycarbonate, Case : Aluminum Front face of the case : AES
Standards	EMC	(EMI) EN61326-1:2013 EN55011:2009 + A1:2010 (EMS) EN61326-1:2013 EN61000-4-2:2009 EN61000-4-3:2006 + A1:2008 + A2:2010 EN61000-4-4:2012 EN61000-4-6:2009 EN61000-4-8:2010

Connection

Power source, I/O cable :

Cable length 2000mm flying lead

Color	Function
Brown	+VIN (10 to 30VDC)
Blue	-VIN
White / Red	Non connection
White / Blue	Non connection
White / Green	Non connection
White / Black	Non connection
White	Synchronous input
Orange	Malfunction output

Color	Function
Pink	Non connection
Violet	Non connection
Yellow / Black	Non connection
Green	Synchronous output
Yellow	Synchronous master output
Red	COM +
Black	COM -
Gray	Non connection

Ethernet connector :

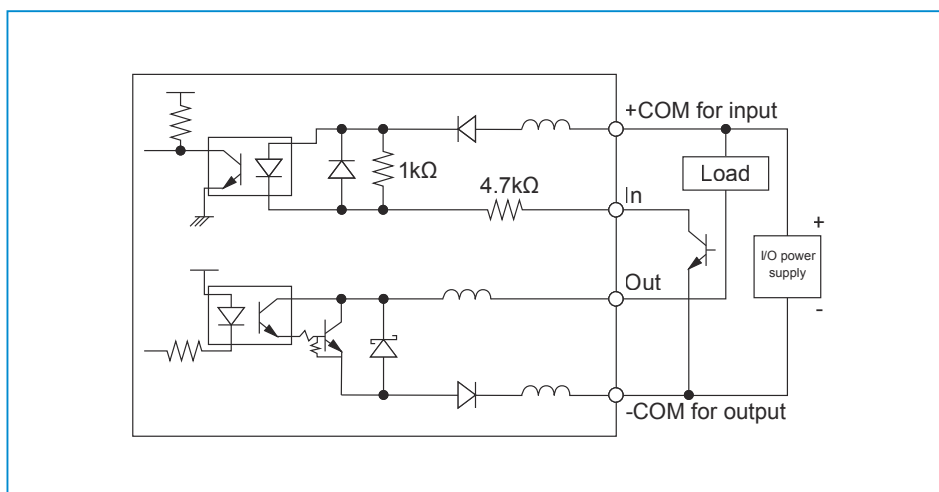
4 core connector socket (Binder / Model No. 09-0431-87-04)

[Option connector]

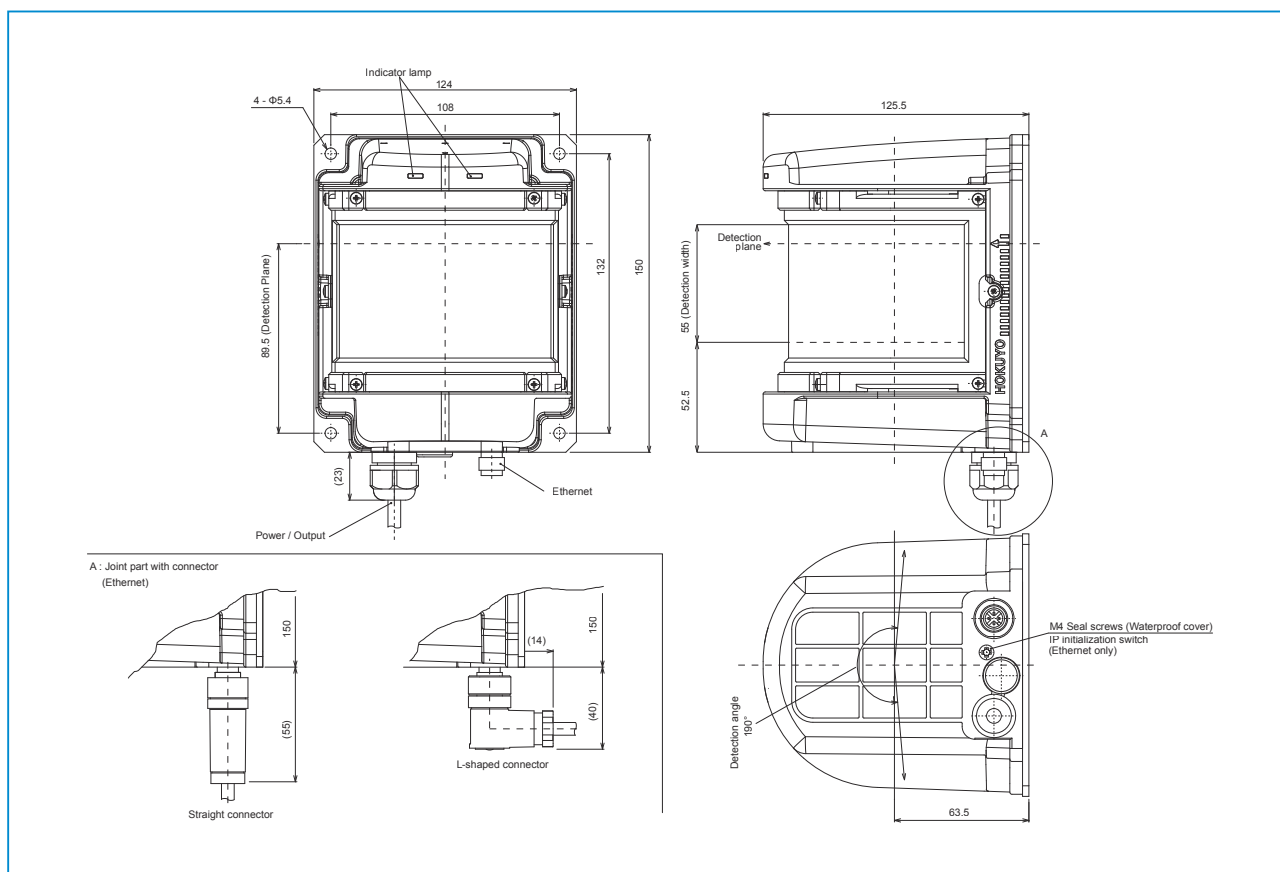
UXM-CN01 : Straight connector (Binder / Model No.99-0430-57-04)

UXM-CN02 : L-shaped connector (Binder / Model No.99-0430-69-04)

I/O Circuit



External dimension



Option

Ethernet connector

Model	Code	Ref.
UXM-CN01	UZ00024	Straight shaped connector
UXM-CN02	UZ00025	L-shaped connector