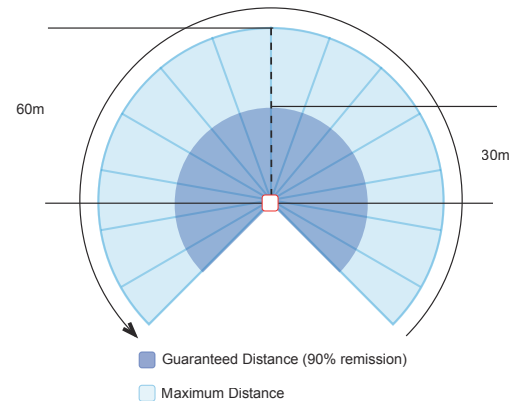


CE UTM-30LX



At a glance

- Max. range for data output : 60m
- Angular resolution : 0.25°
- Data output is available by USB2.0
- IP64 protection
- Size : W60xD60xH87mm
- Weight : 210g

Type	Model	Guaranteed distance	Interface	Multi echo
Data output	UTM-30LX	30m	USB	—
	UTM-30LX-EW	30m	Ethernet	○

Product description

- 2D laser scanner for data output
- Distance and intensity data is available via USB2.0 (full speed)
- Compatible with ROS1 and ROS2
- The software library is available online for free
- Ideal for AMRs and other applications
- Fast scanning speed (25msec) and high angular resolution (0.25°)

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Specification		UTM-30LX
Electronics	Supply voltage	12VDC $\pm$ 10%
	Supply current	1A or less
	Start-up time	Within 10sec
	Light source	Laser semiconductor (905nm), Laser class 1
Detection	Maximum distance (Data output)	0.1~60m
	Guaranteed distance (w/ white 90% remission)	30m
	Guaranteed distance (w/ black 10% remission)	—
	Distance accuracy	$\pm$ 30mm (0.1 to 10m w/ white 90% remission, 3,000lux or less)
	Standard deviation	σ <10mm (0.1 to 10m w/ white 90% remission, 3,000lux or less)
	Angle	270°
	Scanning speed	25msec
	Angular resolution	0.25°
Function	Multi echo	Not available
	LED indicator	Green : Power, Red : Blinks when malfunction
Interface / Driver	Interface	USB type A
	Driver	ROS1 / ROS 2
General	Ambient illuminance	100,000lx (Note : avoid direct sunlight)
	Ambient operating temperature and humidity	Temperature : -10~50°C Humidity : below 85%RH (without dew, frost)
	Storage temperature and humidity	Temperature : -25~75°C 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	10M Ω / 500VDC
	IP protection	IP64
	Weight	210g
	Size W x D x H (mm)	60 x 60 x 87
	Material	Optical window : Polycarbonate, Case : Aluminum
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 1000mm flying lead

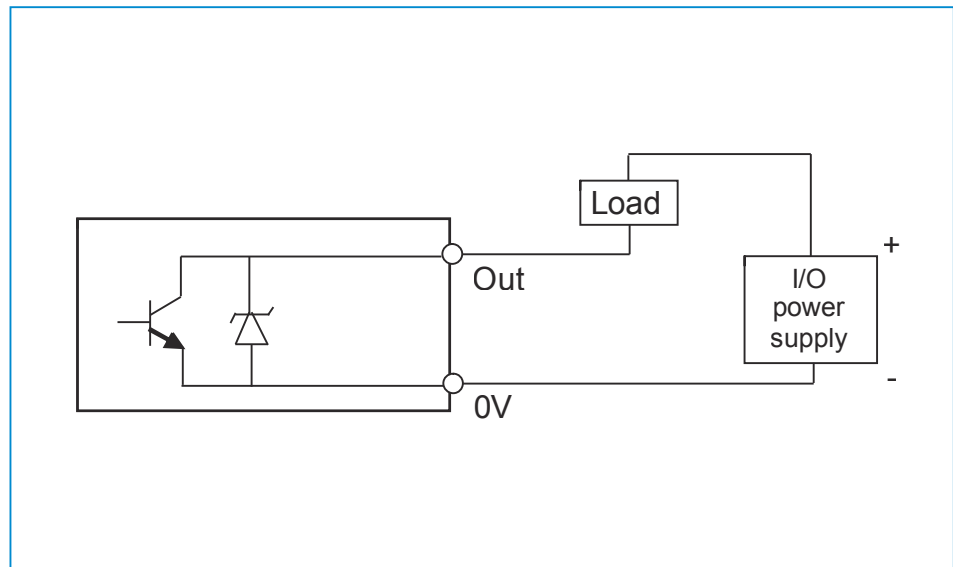
Color	Function
Brown	+VIN (12VDC)
Blue	-VIN
Green	Synchronous output
White	COM -

USB cable :

Connector : USB-TYPE-A (4 pin)

Cable length 300mm

I/O circuit



External dimension

