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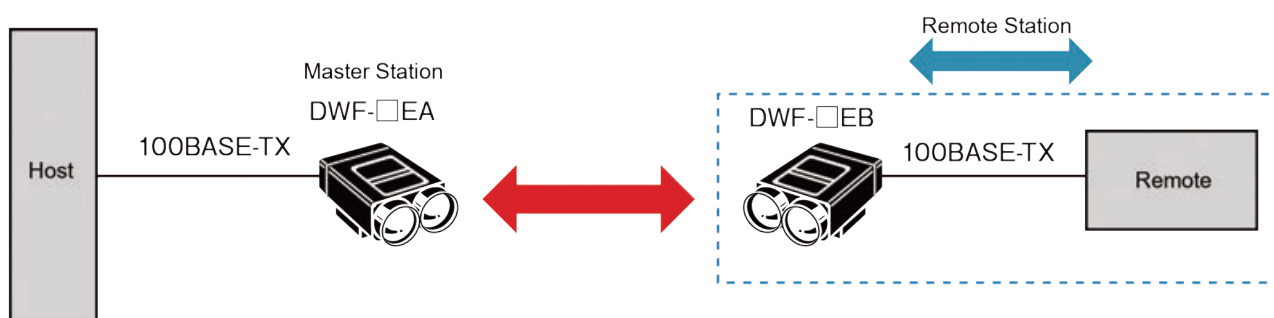
Open Network Type (Ethernet)

DWF-15LE-L01/ DWF-20LE



At a glance

- Supported Interface : Ethernet (100BASE-TX)
- Transmission distance : 150m or 200m
- Easy alignment of the optical axis
- Compact (weight : 800g)
- Wireless communication possible even in cold storage (DWF-15LE-L01 model only)



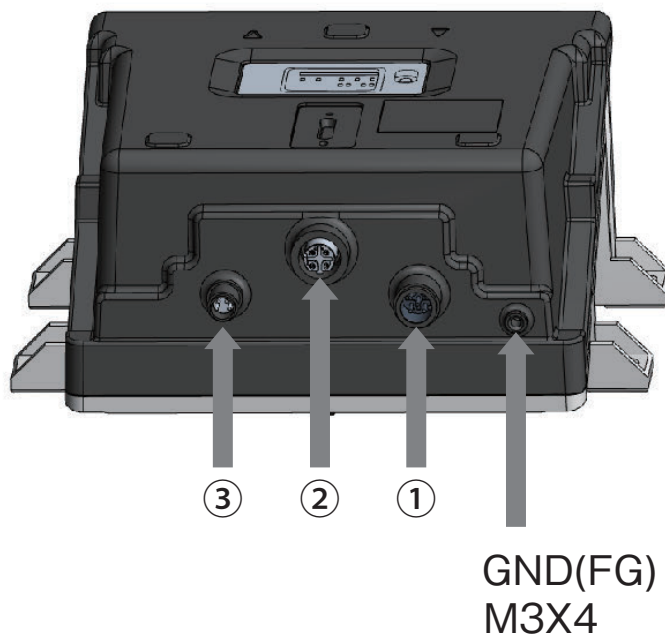
Product description

- A device that uses laser to transmit data wirelessly, enabling wireless communication.
- With Ethernet compatibility and high-speed 100 Mbps optical transmission, it enables smooth and reliable communication.
- Ideal for data communication between mobile and static equipments such as stacker cranes (automated storage systems), automated cranes, and traversers.
- With DWF-15LE-L01, wireless communication remains possible even in refrigerated or cold storage facilities, making it suitable for logistics and warehouse applications.

Specification

		DWF-15LEA-L01 / 15LEB-L01	DWF-20LEA / 20LEB
Electronics	Supply voltage	24VDC (± 10%)	
	Current consumption	150mA (24VDC)	
	Light source	A type : Laser semiconductor (658nm), Laser class 1 B type : Laser semiconductor (830nm), Laser class 1	
Communication	Transmission distance	150m	200m
	Directional angle	Full angle 1°	
	Transmission speed	100Mbps	
	Interface	Ethernet (100BASE-TX)	
	Connection	M12 connector for Ethernet communication, 4-pin, D-coded, female M12 connector for power and alarm, 5-pin, A-coded, male	
Function	Reception output (ARM)	Photo-coupler open-collector (Withstand voltage 36V), ON when receiving light (Max. 50mA, residual voltage 1.5V)	
	Level voltage output (Analog output)	Approx. 0.0 to 3.0V, M8 connector This is available only for adjusting the optical axis. External wiring is forbidden.	
General	Ambient temprature and humidity	-30 to +50°C, 85%RH or less (without dew, frost)	-10 to +50°C, 85%RH or less (without dew, frost)
	Ambient illuminance	10,000lx or less	
	Impact resistance	490m/s ² , Each 10 times in X, Y and Z directions	
	Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hours in X, Y and Z direction	
	IP protection	IP65	
	Weight	800g	
	Size W x D x H (mm)	165 x 144 x 70	

Connection



① Power source : M12 5 core A-code plug (Male)

Pin No.	Symbols	Functions
1	+VIN (24VDC)	DC power
3	-VIN (0V)	
2	ARM	Warning output
4	ERR	Error output
5	COM	—

② Ethernet connector : M12 4 core D-code socket (Female)

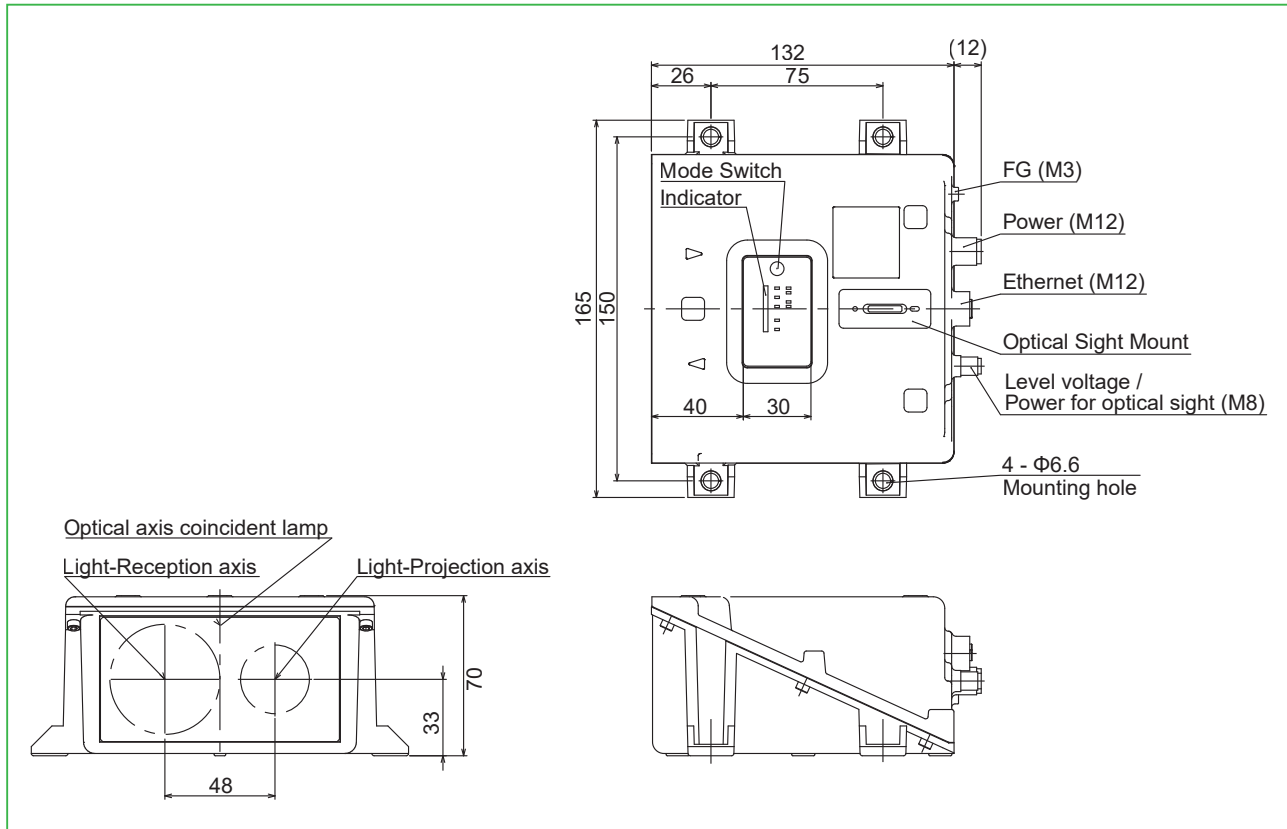
Pin No.	Symbols	Functions
1	TD+	Transmission data (+)
2	RD+	Reception data (+)
3	TD-	Transmission data (-)
4	RD-	Reception data (-)

③ Level voltage output connector : M8 4 core A-code plug (Male)

Pin No.	Symbols
1	LEVEL
2	GND
3 *	Power supply for optical sight (5VDC)
4 *	Power supply for optical sight (GND)

* : Used only for option device of TES-300.

External dimension



Option

Optical sight

Model	Code	Ref.
TES-300	RTES006	Laser marker for optical axis adjustment