

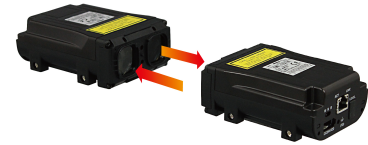
# HOKUYO AUTOMATIC CO., LTD.

## Optical repeater for MECHATROLINK-III

### Features

This device is an optical repeater with 100Mbps transmission speed. It can be directly connected to MECHATROLINK-III network. Its transmission distance is Max. 100m.

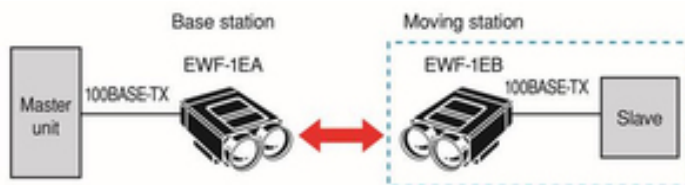
This wireless optical communication enables the non-contact communication between mobile machines. There will be no concerns about cable damages because cables will not be used for communication between the two repeaters.



EWF-0,1EA/B-N

### Specifications

Item	Specifications	
Model No.	EWF-0EA/B-N	EWF-1EA/B-N
Transmission distance	50m	100m
Directional angle	Full angle 1.4°	Full angle 1.0°
Power source	24VDC (±10%)	
Current consumption	120mA (24VDC)	
Laser safety standard	Class 1	
Transmission system	Full-duplex two-way transmission	
Transmission speed	100Mbps	
Interface	Ethernet	
Communication standard	IEEE802.3u 100BASE-TX Auto-negotiation compliant	
Modulation system	Direct modulation	
Connection	Mini clamp connector (Power/CD signal), Modular jack RJ-45 (Ethernet)	
Reception output (CD)	Photo-coupler open-collector (Withstand pressure 36V), ON when receiving light (Max.50mA, residual voltage 1.5V)	
Level voltage output (Analog output)	Approx.0 to 3V, connector S2B-PH-K-S (JST) This is available only when adjusting the optical axis. External wiring is forbidden.	
Ambient illuminance	10,000 lux or less to (Halogen/mercury lamp)	
Ambient temperature	-10°C to +50°C	
Ambient humidity	85%RH or less (non icing)	
Impact resistance	490m/s <sup>2</sup> , 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	
Protective structure	IP40	



### Contact Information

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