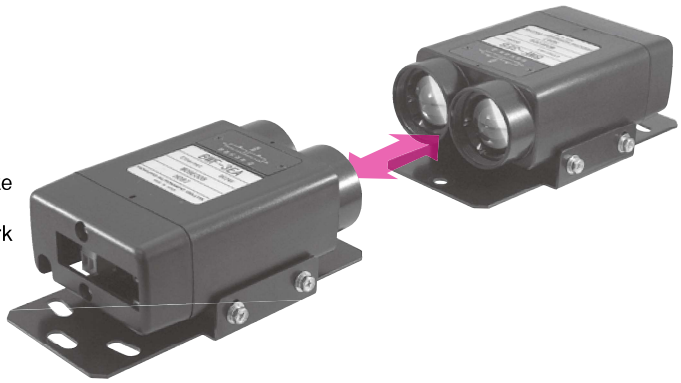
BWF-3E/4E

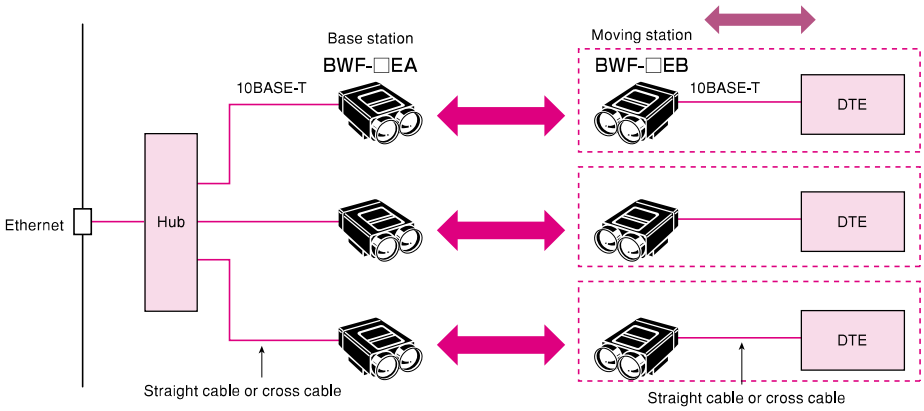
for Ethernet

Long distance wireless LAN with infrared ray
Communication speed 10Mbps!!

- This is a data transmission device for Ethernet that can make wireless LAN with infrared high-speed transmission.
- It is possible to transmit a picture image data of network camera.
- Long distance transmission, 100m and 200m!



System composition

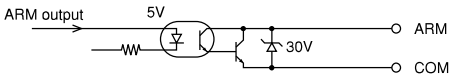


Specifications

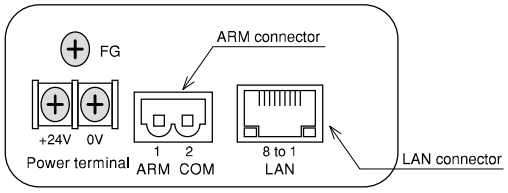
Type		Serial type			
Model No.		BWF-3EA	BWF-3EB	BWF-4EA	BWF-4EB
Power source		24VDC (±15%)			
Current consumption		160mA or less (when 24VDC)			
Optical transmission part	Transmission distance	100m		200m	
	Directional angle	±2°		±1°	
	Transmission method	Full duplex two-way transmission			
	Modulation method	FSK modulation			
	Modulation frequency	Type A (transmission 25MHz, reception 37.5MHz), Type B (transmission 37.5MHz, reception 25MHz)			
	Wavelength (LED)	820nm			
	Transmission speed	DC to 10Mbps			
Network part	Connecting system	10BASE-T			
	Transmission speed	10Mbps or less			
	Connection	Modular jack (Automatic discrimination for straight/ cross cable when automatic negotiation available)			
Indication lamps		PW: Power lamp JM: Optical axis adjusting mode. Lights up during this mode FD: Full-duplex communication. Lights up during communicating LK: Link state. Lights up during link-up state SD: Reception data lamp RD: Transmission data lamp S C: Main station carrier detection lamp 1: Main station light-receiving level margin 1.5 times 2: Main station light-receiving level margin 2.0 times 3: Main station light-receiving level margin 2.5 times R C: Sub station carrier detection lamp 1: Sub station light-receiving level margin 1.5 times 2: Sub station light-receiving level margin 2.0 times 3: Sub station light-receiving level margin 2.5 times			
ARM output (ARM)		Photo-coupler NPN open-collector output (30V, 50mA or less), ON when detecting (Light-reception amount margin 1.5 times or more)			
Ambient illuminance		10,000lux or less (Both sun light and incandescent lamp)			
Ambient temperature/humidity		-10 to +50℃(-20 to +75℃ at stored), 10 to 85%RH or less (not icing, not condensing)			

Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions
Impact resistance	490m/s^2, each 10 time in X, Y and Z directions
Protective structure	IP40 (IEC Standard)
Case material	ABS resin
Weight	Approx. 500g

Output circuit



Connection



Connector for CD (2P): 2p connector socket attached

Pin No.	Functions
1	ARM
2	COM

Connector for LAN (8P): RJ-45 8 pins modular jack

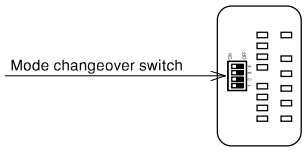
Pin No.	MDI signals	Functions
1	TD+	Transmission data (+)
2	TD-	Transmission data (-)
3	RD+	Reception data (+)
4		Unused
5		Unused
6	RD-	Reception data (-)
7		Unused
8		Unused

Note) Make sure to insert the connector correctly.

Setting

Operating mode changeover

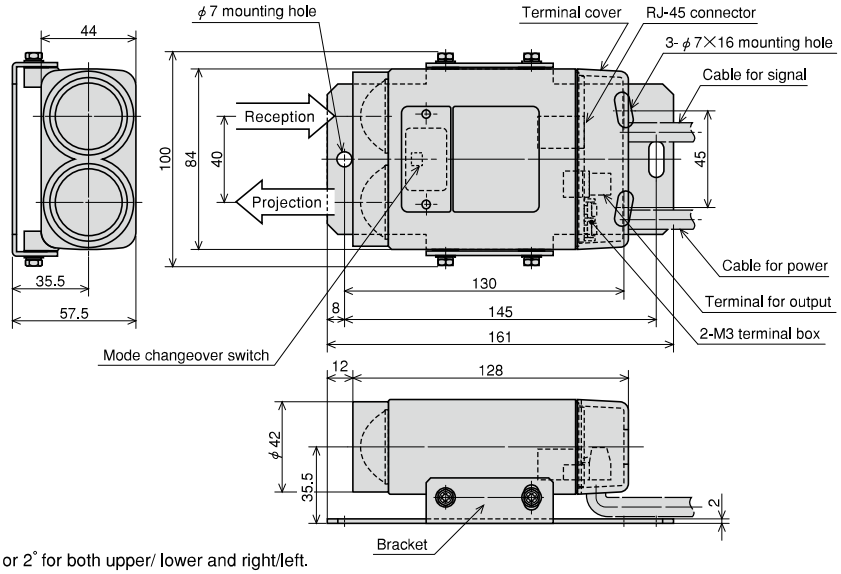
Normal operation mode or optical axis adjustment mode can be set by mode changeover switch. (set by dip switch after removing window)



SW	ON	OFF
1	Optical axis adjustment mode	RUN
2	Half-duplex	Full-duplex
3	——	——
4	Manual setting (SW2 is available)	Automatic negotiating available

Note) Make sure to re-start when mode was changed.

External dimensions



Note) Adjustable angle:1˚ or 2˚ for both upper/ lower and right/left.