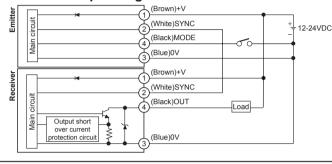


Specifications						
Model		BWC40-	BWC40- HD	BWC80-14H	BWC80-14HD	
Sensing method		Through-beam				
Sensing distance		1 0 to 7.0m				
Sensing target		Opaque material	of min Ø50mm	Opaque material	Opaque material of min Ø90mm	
Optical axis pitch		40mm 80mm				
Number of optical axes		4/10/12/16/18/20pcs		14pcs		
Sensing height		120 to 760mm 1,040mm				
Beam pattern		3-point cross beam netting type				
Power supply		12-24VDC±10% (ripple P-P: max. 10%)				
Protection circuit		Reverse polarity protection circuit, output short over current protection circuit				
Current consumption		Max. 100mA				
Operation mode		Light ON	Dark ON	Light ON	Dark ON	
Response time		Within 50ms				
Control output		NPN open collector output • Load voltage: max. 30VDC=- • Residual voltage: max. 1VDC=-				
Light source		Infrared LED (850nm modulated light type)				
Synchronization type		Timing method by synchronous cable				
Self-diagnosis		Transmitted-received light monitoring, direct light monitoring, output circuit monitoring				
Interference protection		Interference protection by frequency changing setting				
Noise immunity		±240V the square wave noise (pulse width 1µs) by the noise simulator				
Dielectric strength		1,000VAC 50/60Hz for 1minute				
Insulation resistance		Over 20MΩ (at 500VDC megger)				
Vibration		1 5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours				
Shock		500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times				
Environ -ment	Ambient illumination	Ambient light: max. 100,000lx				
	Ambient temperature	-10 to 55°C, storage: -20 to 60°C				
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH				
Material		Case: aluminum, sensing part and indicator: acrylic				
Cable		Ø5mm, 4-wire, length: 300mm, M12 connector				
Accessory		Bracket A: 4, bracket B: 4, fixing bolt: 8				
Protection		P65 (IEC standard)				
Approval		CE				
Weight ^{×1}		Approx. 2.1kg (approx. 1.7kg) (based on BWC80-14H)				
	nment resistance is rate weight includes packa			t only.		

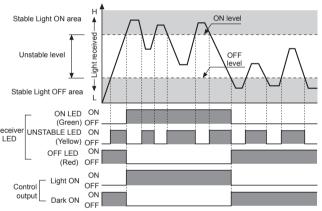
Control Output Diagram



Operating Mode

	Light ON	Dark ON					
Receiver	Received light	Received light					
Operation Indicator (Red LED)	ON OFF	ON OFF					
Transistor output	ON OFF	ON OFF					

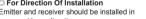
Operation Timing Diagram

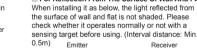


Installations

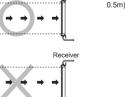
For the first installation, enter installation mode ③Entry method for installation mode: Supply power with inputting 0V to 4th terminal (Black) MODE.
③After entering installation mode, install the unit at the position where green LED of receiver operation indicator turns ON.
③After installation, re-supply power to the unit.

For Direction Of Installation



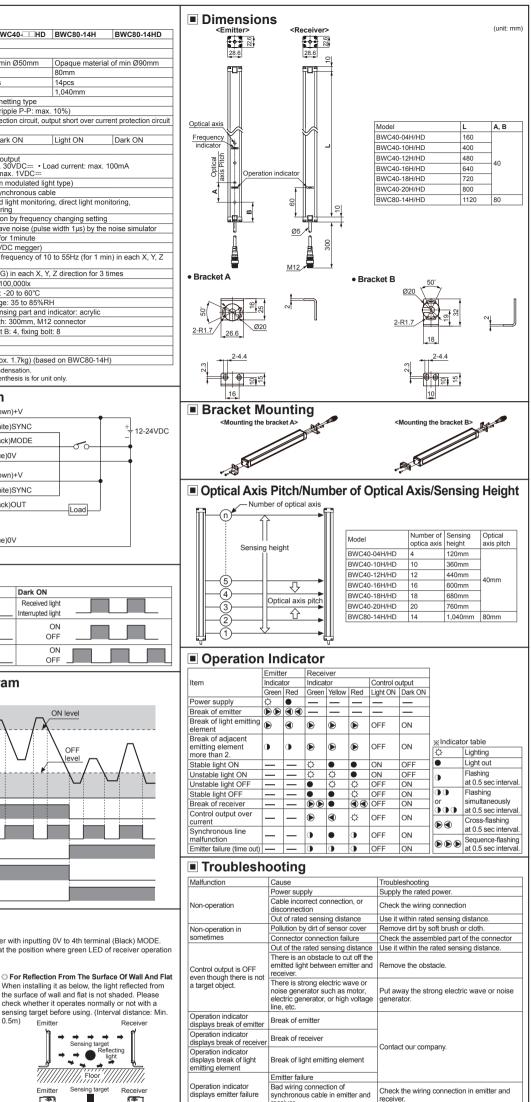


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For Protection Of Int

For Protection Of Interference t may cause interference when installing more than 2 sets of the sensor. In order to avoid the interference of the sensor, please install as following figures and use the transmitted light frequency changing function



Cautions during Use

Check the wiring

and receiver.

connection in emitter

eceive

Over load

Control output line is shorted out.

Check the wiring connection in emitter and

Check the wiring connection

Check the rated load capacity

