





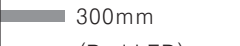
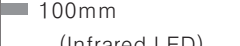

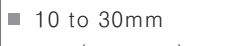
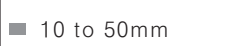
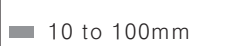



























Product Overview











Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference											
BJ Series CE  Connector type	Through-beam type	 15m (Infrared LED)	BJ15M-TDT BJ15M-TDT-C BJ15M-TDT-P BJ15M-TDT-C-P	12-24VDC	Max. 1ms	NPN open collector output	A-6 to 12											
		 10m (Red LED)	BJ10M-TDT BJ10M-TDT-C BJ10M-TDT-P BJ10M-TDT-C-P			NPN open collector output												
			 7m (Red LED)			BJ7M-TDT BJ7M-TDT-P		NPN open collector output										
		Retro-reflective type				Polarizing filter built-in  0.1 to 3m (Red LED)		BJ3M-PDT BJ3M-PDT-C BJ3M-PDT-P BJ3M-PDT-C-P	NPN open collector output									
			Diffuse reflective type			 1m (Infrared LED)		BJ1M-DDT BJ1M-DDT-C BJ1M-DDT-P BJ1M-DDT-C-P	NPN open collector output									
		 300mm (Red LED)				BJ300-DDT BJ300-DDT-C BJ300-DDT-P BJ300-DDT-C-P		NPN open collector output										
	 100mm (Infrared LED)					BJ100-DDT BJ100-DDT-C BJ100-DDT-P BJ100-DDT-C-P		NPN open collector output										
		 30mm (Infrared LED)				BJG30-DDT		NPN open collector output										
	NEW BGS reflective type (Limited distance reflective type) + (Narrow spot type)	 10 to 30mm (Red LED)				BJ30-BDT BJ30-BDT-P		NPN open collector output										
		 10 to 50mm (Red LED)				BJ50-BDT BJ50-BDT-P		NPN open collector output										
			 10 to 100mm (Red LED)			BJ100-BDT BJ100-BDT-P		NPN open collector output										
	Narrow beam reflective type (Micro spot type)	 30 to 70mm (Red LED)	BJN50-NDT BJN50-NDT-P			NPN open collector output												
			BJN100-NDT BJN100-NDT-P			NPN open collector output												
		 70 to 130mm (Red LED)	BJN50-NDT BJN50-NDT-P			NPN open collector output												
			BJN100-NDT BJN100-NDT-P			NPN open collector output												
	BS5 Series CE 	Through-beam type (Not modulated)	 5mm (Red LED)			BS5-L2M BS5-K2M BS5-T2M BS5-Y2M BS5-V2M		5-24VDC	Received light : Max. 20 μ s Interrupted light : Max. 100 μ s	NPN open collector output	A-13 to 15							
						BA Series CE Upgrade 						Diffuse reflective type	 2m (Infrared LED)	BA2M-DDT BA2M-DDTD BA2M-DDT-P BA2M-DDTD-P	12-24VDC	Max. 1ms	NPN open collector output	A-16 to 18
														NPN open collector output				
														NPN open collector output				
														PNP open collector output				

- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller
- (I) SSR/Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/Speed/Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement

Product Overview


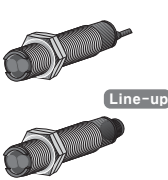
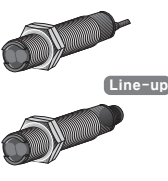

Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference
BY Series Standard  Side sensing type 	Through-beam type	 500mm (Infrared LED)	BY500-TDT	12-24VDC	Max. 1ms	NPN open collector output	A-19 to 21
			BYS500-TDT				
BYD Series CE  Operation indicator  BYD30-DDT-U BYD50-DDT-U	Through-beam type	 3m (Infrared LED)	BYD3M-TDT	12-24VDC	Max. 1ms	NPN open collector output	A-22 to 26
			BYD3M-TDT-P			PNP open collector output	
	Limited distance reflective type	 30mm (Infrared LED)	BYD30-DDT		Max. 3ms	NPN open collector output	
			BYD30-DDT-U				
			BYD30-DDT-T <small>Timer built-in</small>				
			BYD50-DDT				
	 50mm (Infrared LED)	BYD50-DDT-U					
	BYD50-DDT-T <small>Timer built-in</small>						
Diffuse reflective type	 100mm (Infrared LED)	BYD100-DDT					
BPS Series CE 	Through-beam type	 2m (Infrared LED)	BPS3M-TDT	12-24VDC	Max. 1ms	NPN open collector output	A-27 to 28
			BPS3M-TDTL			PNP open collector output	
			BPS3M-TDT-P				
			BPS3M-TDTL-P				
BM Series CE 	Through-beam type	 3m (Infrared LED)	BM3M-TDT	12-24VDC	Max. 3ms	NPN open collector output	A-29 to 32
	Retro-reflective type	 0.1 to 1m (Infrared LED)	BM1M-MDT				
	Diffuse reflective type	 200mm (Infrared LED)	BM200-DDT				
BMS SERIES CE 	Through-beam type	 5m (Infrared LED)	BMS5M-TDT	12-24VDC	Max. 1ms	NPN open collector output	A-33 to 36
						BMS5M-TDT-P	
	Retro-reflective type	 0.1 to 2m (Infrared LED)	BMS2M-MDT			NPN open collector output	
			BMS2M-MDT-P				
	Diffuse reflective type	 300mm (Infrared LED)	BMS300-DDT			NPN open collector output	
			BMS300-DDT-P				

Product Overview

Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference		
BEN Series CE (DC only) 	Through-beam type	 10m (Infrared LED)	BEN10M-TFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	A-37 to 42		
			BEN10M-TDT	12-24VDC	Max. 1ms	NPN/PNP open collector output			
	Retro-reflective type	Standard type  0.1 to 5m (Infrared LED)	BEN5M-MFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BEN5M-MDT	12-24VDC	Max. 1ms	NPN/PNP open collector output			
		Polarizing filter built-in  0.1 to 3m (Red LED)	BEN3M-PFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BEN3M-PDT	12-24VDC	Max. 1ms	NPN/PNP open collector output			
	Diffuse reflective type	 300mm (Infrared LED)	BEN300-DFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BEN300-DDT	12-24VDC	Max. 1ms	NPN/PNP open collector output			
	BX Series CE 	Through-beam type	 15m (Infrared LED)	BX15M-TFR	24-240VAC/ 24-240VDC	Max. 20ms		Relay output	A-43 to 49
				BX15M-TFR-T					
BX15M-TDT				12-24VDC	Max. 1ms	NPN/PNP open collector output			
BX15M-TDT-T							Timer built-in		
Retro-reflective type		Standard type  0.1 to 5m (Infrared LED)	BX5M-MFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BX5M-MFR-T				Timer built-in		
			BX5M-MDT	12-24VDC	Max. 1ms	NPN/PNP open collector output			
		BX5M-MDT-T	Timer built-in						
		Polarizing filter built-in  0.1 to 3m (Red LED)	BX3M-PFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BX3M-PFR-T				Timer built-in		
BX3M-PDT			12-24VDC	Max. 1ms	NPN/PNP open collector output				
BX3M-PDT-T		Timer built-in							
Diffuse reflective type		 700mm (Infrared LED)	BX700-DFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output			
			BX700-DFR-T				Timer built-in		
	BX700-DDT	12-24VDC	Max. 1ms	NPN/PNP open collector output					
	BX700-DDT-T				Timer built-in				

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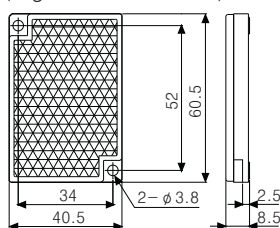
Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference		
BR SERIES CE  BR4M (Metal case)  BR (Metal case) 	Through-beam type	4m (Infrared LED)	BR4M-TDTL	12-24VDC	Max. 3ms	NPN open collector output	A-50 to 55		
			BR4M-TDTL-C						
			BR4M-TDTD						
			BR4M-TDTD-C						
			BR4M-TDTL-P						
		BR4M-TDTL-C-P							
		BR4M-TDTD-P							
		BR4M-TDTD-C-P							
		20m (Infrared LED)	BR20M-TDTL						
			BR20M-TDTL-C						
	BR20M-TDTD								
	BR20M-TDTD-C								
	BR20M-TDTL-P								
	Retro-reflective type	0.1~3m (Infrared LED)	BR3M-MDT		Max. 1ms	NPN open collector output			
			BR3M-MDT-C						
			BR3M-MDT-P						
			BR3M-MDT-C-P						
			BRP3M-MDT						
		BRP3M-MDT-C							
		BRP3M-MDT-P							
BRP3M-MDT-C-P									
Diffuse reflective type		100mm (Infrared LED)	BR100-DDT	Max. 1ms		NPN open collector output			
			BR100-DDT-C						
	BR100-DDT-P								
	BR100-DDT-C-P								
	BRP100-DDT								
	BRP100-DDT-C								
	BRP100-DDT-P								
	BRP100-DDT-C-P								
	400mm (Infrared LED)	BR400-DDT							
		BR400-DDT-C							
BR400-DDT-P									
BR400-DDT-C-P									
BRP400-DDT									
Narrow beam reflective type	200mm (Infrared LED)	BR200-DDTN	Max. 1ms	NPN open collector output					
		BR200-DDTN-C							
		BR200-DDTN-P							
		BR200-DDTN-C-P							
		BRP200-DDTN							
	BRP200-DDTN-C								
	BRP200-DDTN-P								
	BRP200-DDTN-C-P								
	BUP SERIES CE 	Through-beam type		30mm	BUP-30	12-24VDC	Max. 1ms	NPN open collector output	A-56 to 57
					Adjuster built-in BUP-30S				
BUP-30-P									
Adjuster built-in BUP-30S-P									
50mm			BUP-50						
			Adjuster built-in BUP-50S						
			BUP-50-P						
Adjuster built-in BUP-50S-P									

○ Reflector

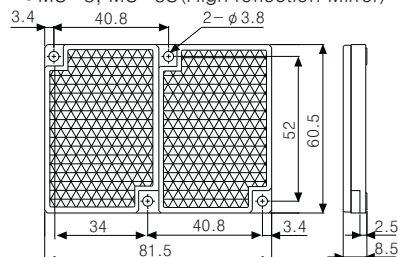
Retroreflective photo sensor is sold with a basic reflector. You can select other reflectors for the proper install environment.

- Select proper reflector size for the install space.
- Basically the bigger mirror size has the longer sensing distance.
- High reflective mirrors (MS-2S, MS-3S) tend to have longer sensing distance than a basic reflector's sensing distance.

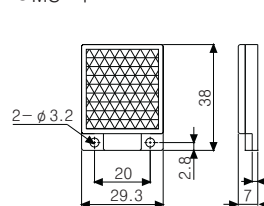
●MS-2, MS-2S
(High reflection Mirror)



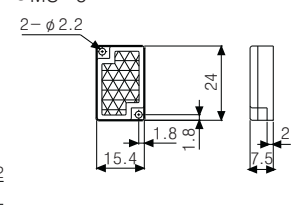
●MS-3, MS-3S(High reflection Mirror)



●MS-4



●MS-5



(Unit:mm)