Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Response speed	Reference
BTF Series	Through-beam type	(Red LED)	BTF1M-TDTL BTF1M-TDTD BTF1M-TDTL-P BTF1M-TDTD-P	- 	Max.1ms	NPN open collector output PNP open collector output	_
ļļ	Diffuse reflective type BGS reflective type (Convergent reflective type)+	■ 5 to 30mm (Red LED)	BTF30-DDTL BTF30-DDTD BTF30-DDTL-P BTF30-DDTD-P			NPN open collector output PNP open collector output	A-8 to 11
		■ 1 to 15mm (Red LED)	BTF15-BDTL BTF15-BDTD BTF15-BDTL-P	-		NPN open collector output PNP open	-
BJ Series	(Narrow spót týpe)	15m	BTF15-BDTD-P BJ15M-TDT BJ15M-TDT-C			NPN open collector output	
CE		(Infrared LED)	BJ15M-TDT-P BJ15M-TDT-C-P			PNP open collector output	-
	Through-beam type	(Pad L ED)	BJ10M-TDT BJ10M-TDT-C BJ10M-TDT-P	_		NPN open collector output PNP open	-
	type	(Red LED)	BJ10M-TDT-C-P	_		collector output	-
		(Red LED)	BJ7M-TDT BJ7M-TDT-P	_	Max.1ms Max.1.5ms Max.1ms	collector output PNP open	_
Line-up Connector type	Retroreflective	Polarizing filter built-in	BJ3M-PDT BJ3M-PDT-C	-		collector output NPN open collector output	-
	type	(Red LED)	BJ3M-PDT-P BJ3M-PDT-C-P			PNP open collector output	
	Diffuse reflective type	(Infrared LED)	BJ1M-DDT BJ1M-DDT-C BJ1M-DDT-P	-		NPN open collector output PNP open	-
		300mm	BJ1M-DDT-C-P BJ300-DDT BJ300-DDT-C	-		collector output NPN open collector output	-
		(Red LED)	BJ300-DDT-P BJ300-DDT-C-P			PNP open collector output	-
		(Infrared LED)	BJ100-DDT BJ100-DDT-C			NPN open collector output	A-12 to 18
			BJ100-DDT-P BJ100-DDT-C-P			PNP open collector output NPN open	-
		30mm (Infrared LED)	BJG30-DDT BJ30-BDT			collector output NPN open	_
		 10 to 30mm (Red LED) 10 to 50mm (Red LED) 10 to 100mm (Red LED) 30 to 70mm (Red LED) 	BJ30-BDT-P			Collector output PNP open collector output	-
			BJ50-BDT			NPN open collector output	
			BJ50-BDT-P			PNP open collector output	-
			BJ100-BDT			NPN open collector output PNP open	-
			BJ100-BDT-P BJN50-NDT			collector output NPN open	-
			BJN50-NDT-P			Collector output PNP open collector output	-
		■ 70 to 130mm (Red LED)	BJN100-NDT			NPN open collector output	
			BJN100-NDT-P			PNP open collector output	
ES5 Series Line-up	Through-beam type (not modulated)		BS5-L2M BS5-K2M BS5-T2M BS5-Y2M BS5-V2M		Received light : Max. 20µs Interrupted light : Max.100µs	NPN open collector output	
			BS5-L2M-P BS5-K2M-P BS5-T2M-P BS5-Y2M-P BS5-V2M-P			PNP open collector output	- A-19 to 21

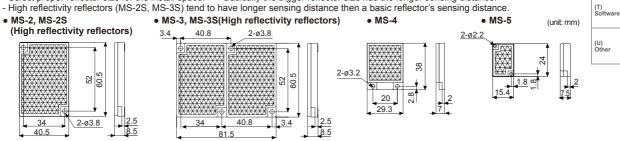
		Sensing distance (Light source)	Model	Power sup-	Response speed	Control	Reference	(A) Photo
BA Series	type	(Light source)	BA2M-DDT	ply	speeu	output		electric sensor
C€				-		NPN open collector output		(B) Fiber
	Diffuse	(Infrare d L ED)	BA2M-DDTD	12-24VDC	Max.1ms		A-22 to 24	optic sensor
alle	reflective type	(Infrared LED)	BA2M-DDT-P			PNP open collector output		(C) Door/Area
			BA2M-DDTD-P					sensor
BY Series Standard			BY500-TDT		Max. 1ms	NPN open collector output	A-25 to 27	(D) Proximity sensor
	Through-beam	500mm	B1200-101	12-24VDC				(E) Pressure sensor
	type	(Infrared LED)	BYS500-TDT	12-24VDC				(F) Rotary encoder
Side sensing type								(G) Connector/
BYD Series						NPN open		Socket
	Through-beam type	3m	BYD3M-TDT		Max. 1ms	collector output		(H) Temp. controller
		(Infrared LED)	BYD3M-TDT-P			PNP open collector output		(I) SSR/ Power controller
Operation indicator		■ 10 to 30mm (Infrared LED)	BYD30-DDT	_				(J) Counter
	Convergent reflective type		BYD30-DDT-U		Max. 3ms	NPN open collector output	- A-34 to 35	
Concession of the local division of the loca			Timer built-in BYD30-DDT-T	_				(K) Timer
		10 to 50mm (Infrared LED)	BYD50-DDT	-				(L) Panel
BYD30-DDT-U BYD50-DDT-U			BYD50-DDT-U					meter
			Timer built-in BYD50-DDT-T					(M) Tacho/ Speed/ Pulse meter
	Diffuse reflective type	100mm (Infrared LED)	BYD100-DDT					(N)
BPS Series		· · ·	BPS3M-TDT					Display unit
C E	Through-beam type	(Infrared LED)	BPS3M-TDTL		Max. 1ms			(O) Sensor
			BPS3M-TDT-P	12-24VDC				controller
			BPS3M-TDTL-P					(P) Switching mode power supply
CE	Through-beam type	(Infrared LED)	BM3M-TDT			NPN open collector output	A-36 to 39	(Q) Stepper motor&
and a second second	Retroeflective type	(Infrared LED)	BM1M-MDT	12-24VDC	Max. 3ms			Driver&Controller (R)
	Diffuse reflective type	200mm (Infrared LED)	BM200-DDT					Graphic/ Logic panel
BMS Series	Through-beam	5m	BMS5M-TDT			NPN open collector output		(S) Field network device
-	type	(Infrared LED)	BMS5M-TDT-P		Max. 1ms	PNP open collector output NPN open collector output PNP open collector output NPN open collector output PNP open collector output	t A-40 to 43	(T) Software
00-1	Retroreflective type Diffuse reflective type	0.1 to 2m (Infrared LED) 300mm (Infrared LED)	BMS2M-MDT	- 12-24VDC				Software
			BMS2M-MDT-P					(U) Other
			BMS300-DDT					
			BMS300-DDT-P					

Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference
BEN Series	Through-beam	10m	BEN10M-TFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
(DC only)	type	(Infrared LED)	BEN10M-TDT	12-24VDC	Max. 1ms	NPN/PNP open collector output	
	Retro- reflective	Standard type	BEN5M-MFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	type (Standard type)	(Infrared LED)	BEN5M-MDT	12-24VDC	Max. 1ms	NPN/PNP open collector output	A-44 to 49
Laninkal .	Retro- reflective	Polarizing filter built-in	BEN3M-PFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	A-44 10 49
	type(Built-in polarzing filter)	(Infrared LED)	BEN3M-PDT	12-24VDC	Max. 1ms	NPN/PNP open collector output	-
	Diffuse	200mm	BEN300-DFR	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	reflective type	300mm (Infrared LED)	BEN300-DDT	12-24VDC	Max. 1ms	NPN/PNP open collector output	
BX Series	Through-beam	15m	BX15M-TFR Timer built-in BX15M-TFR-T	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	type	(Infrared LED)	BX15M-TDT Timer built-in BX15M-TDT-T	12-24VDC	Max. 1ms	NPN/PNP open collector output	
	Retro- reflective type (Standard type)	Standard type	Timer built-in BX5M-MFR Timer built-in BX5M-MFR-T	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	Retro- reflective type(Built-in polarzing filter)	(Infrared LED)	BX5M-MDT Timer built-in BX5M-MDT-T	12-24VDC	Max. 1ms	NPN/PNP open collector output	A-50 to 56
	Retro- reflective type (Standard type)	Polarizing filter built-in	BX3M-PFR Timer built-in BX3M-PFR-T	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	Retro- reflective type(Built-in polarzing filter)	(Red LED)	BX3M-PDT Timer built-in BX3M-PDT-T	12-24VDC	Max. 1ms	NPN/PNP open collector output	
	Diffuse reflective	700mm	BX700-DFR Timer built-in BX700-DFR-T	24-240VAC/ 24-240VDC	Max. 20ms	Relay output	
	type	(Infrared LED)	BX700-DDT Timer built-in BX700-DDT-T	12-24VDC	Max. 1ms	NPN/PNP open collector output	
BR Series			BR4M-TDTL BR4M-TDTL-C			NPN open collector out- put	
BR4M (Metal case)	Through-beam type	-beam20m	BR4M-TDTD BR4M-TDTD-C	-			-
			BR4M-TDTL-P BR4M-TDTL-C-P			PNP open collector out- put NPN open collector out- put	
			BR4M-TDTD-P BR4M-TDTD-C-P				
Connector type BR20M (Metal case)			BR20M-TDTL BR20M-TDTL-C	12-24VDC	Max. 1ms		A-57 to 62
			BR20M-TDTD BR20M-TDTD-C	_			
		(Infrared LED)	BR20M-TDTL-P BR20M-TDTL-C-P	-		PNP open collector out-	
Connector type			BR20M-TDTD-P BR20M-TDTD-C-P			put	

Appearances	Sensing type	Sensing distance (Light source)	Model	Power supply	Response speed	Control output	Reference	(A) Photo electric
BR Series C E			BR3M-MDT BR3M-MDT-C		Max. 1ms	NPN open collector output		sensor (B)
	Retro-	0.1 to 3m	BR3M-MDT-P BR3M-MDT-C-P			PNP open collector output		Fiber optic sensor
BR (Metal case)	reflective type	(Infrared LED)	BRP3M-MDT BRP3M-MDT-C			NPN open collector output		(C) Door/Area
			BRP3M-MDT-P BRP3M-MDT-C-P			PNP open collector output		sensor
		100mm	BR100-DDT BR100-DDT-C			NPN open collector outpu		(D) Proximity sensor
Connector type			BR100-DDT-P BR100-DDT-C-P			PNP open collector output		(E) Pressure
		(Infrared LED)	BRP100-DDT BRP100-DDT-C		Max. 1ms	NPN open collector output		sensor (F)
BRP (Plastic case))	Diffuse		BRP100-DDT-P BRP100-DDT-C-P			PNP open collector output		(F) Rotary encoder
	reflective type	400mm (Infrared LED)	BR400-DDT BR400-DDT-C	12-24VDC		NPN open collector output	A-57 to 62	(G) Connector/ Socket
			BR400-DDT-P BR400-DDT-C-P			PNP open collector output		(H)
			BRP400-DDT BRP400-DDT-C			NPN open collector output		Temp. controller
Connector type			BRP400-DDT-P BRP400-DDT-C-P			PNP open collector output		(I) SSR/ Power controller
b	Narrow beam reflective type	200mm (Infrared LED)	BR200-DDTN BR200-DDTN -C			NPN open collector output		(J)
			BR200-DDTN-P BR200-DDTN-C-P			PNP open collector output		Counter
			BRP200-DDTN BRP200-DDTN-C			NPN open collector output		(K) Timer
			BRP200-DDTN-P BRP200-DDTN-C-P			PNP open collector output		(L) Panel
BRE Series	Through- beam type	(Infrared LED)	BRE5M-TDTL BRE5M-TDTD	-12-24VDC Max. 1ms		NPN open collector output	A-63 to 64	meter
		(Infrared LED)	BRE10M-TDTL BRE10M-TDTD		Max. 1ms			(M) Tacho/ Speed/ Puls meter
BUP Series			BUP-30 BUP-30S Adjuster built-in			NPN open collector output		(N) Display
	Through- beam type	30mm (Infrared LED) 50mm (Infrared LED)	BUP-30S Adjuster built-in BUP-30-P	12-24VDC	Max. 1ms	PNP open		unit
			BUP-30S-P Adjuster built-in BUP-50			collector output	A-65 to 66	(O) Sensor controller
			BUP-50S Adjuster built-in			NPN open collector output		(P) Switching mode powe
			BUP-50-P BUP-50S-P Adjuster built-in			PNP open collector output		(Q) Stepper
								Stepper
	Through		BL13-TDT			NPN open collector output		
BL Series NEW	Through- beam type			12-24VDC	Max. 2ms	NPN open collector output PNP open collector output	A-67 to 69	(R) Graphic/ Logic panel

OREFLECTOR

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 reflector size has the longer sensing distance.
 High reflectivity reflectors (MS-2S, MS-3S) tend to have longer sensing distance then a basic reflector's sensing distance.



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