

Cable type

Line-up

Photomicro Sensor

Features

- Ultra compact, Built-in amplifier, NPN/PNP open collector output
- Various selection by installation position (Appearance: K, T, L, Y, V type)
- Light ON / Dark ON selectable by control terminal
- High speed response frequency: 2kHz
- Wide range of power source: 5-24VDC (Easy to connect with various IC, relay, programmable controller etc)
- Dust resistance structure
- : Protecting by window of emitter/receiver
- Re



d LED status indication	_								
Please read "Caution for your safety" in operation manual before using.									
	_								

Ordering Information

BS∐ ∜	5 -	K 2	2 N	1 -	P						
\top			ΓΈ		Т	Control output	No mark	NPN open collector	r output		
				0:			Р	PNP open collector	output		
				Size			М	Middle			
			Conr	nnection type 1 Cable type							
							2	Connector type			
		Appe	earand	rance			K	K-Type	Υ	Y-Type	
		, , , , ,					T	T-Type	V	V-Type	
	Canain	a diatan					L	L-Type			
	Sensii	ig uistan	distance					Unit: mm (fixed)			
Item							BS	Photo electronic sensor			

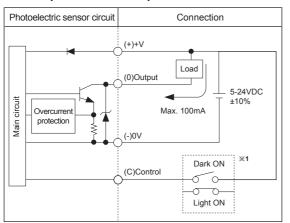
Specifications

_			BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	
iviouei	collector output	K1M	T1M	L1M	Y1M	V1M	K2M	T2M	L2M	Y2M	V2M	
			BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	BS5-	
	collector output	K1M-P	T1M-P	L1M-P	Y1M-P	V1M-P	K2M-P	T2M-P	L2M-P	Y2M-P	V2M-P	
Sensing type Through-beam (Not modulated)												
Sensing distance 5mm fixed												
	sing target Ø0.8×2mm Opaque materials											
Hysteresis 0.05mm												
Response time Light ON: Max. 20µs, Dark ON: Max. 100µs												
Response frequency*1 2kHz (refer to the measuring range of response frequency)												
Power	supply	5-24VDC	±10% (Ripp	ole P-P : Ma	x. 10%)							
Curren	t consumption		A (at 26.4V									
Light s	ource	Infrared L	ED (940nm)								
Operat	ion mode				y control wir	e	Light ON /	Dark ON se	electable by	control term	inal	
Contro	I output	NPN or PNP open collector output										
Contro	ι ουιραί	◆Load voltage : Max. 30VDC ◆Load current : Max. 100mA ◆Residual voltage : Max. 1.2V										
Protect	tion circuit	Reverse p	ower polar	ity protectio	n, Overcurre	ent protectio	n					
Indicat	or	Operation	Indicator: r	ed LED								
Conne		Cable typ					Connector	type				
	ion resistance			OC megger)								
	resistance				ulse width:1	μs) by the n	oise simulat	or				
	ric strength		50/60Hz fo									
Vibration	on	1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours										
Shock		500m/s² (approx. 50G) in each X, Y, Z direction for 3 times										
	Ambient illumination	Fluoresce	ent lamp : M	ax. 10001x	(Receiver ill	umination)						
Environ-	Ambient											
ment	temperature	-20 to 55°C, storage : -25 to 85°C										
Protect	tion structure		1P50 (IEC standard)									
Materia		PBT PBT										
Cable		Ø3mm, 4-wire, 1m(AWG28, Core diameter: 0.08mm,										
		Number of cores: 19, Insulator out diameter: Ø0.88mm)										
Approv		CE										
Weight	×2	Approx. 5	0g (approx.	30g)								
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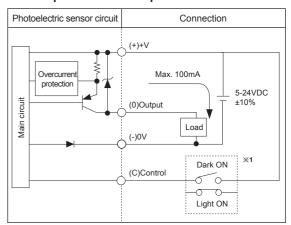
X1: The value from revolving the circle panel which duty ratio is 1:1. X2: The weight includes packaging. The weight in parentheses in for unit only. **The temperature or humidity mentioned in Environment indicates a non freezing or condensation environment.

■ Control Output Diagram

NPN open collector output

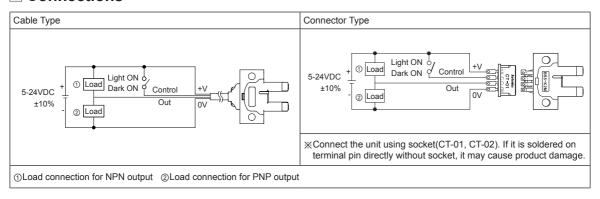


• PNP open collector output

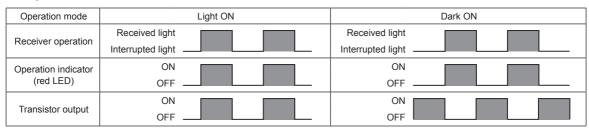


X1: Operation mode selection: Connect Control (C) terminal into terminal +V (+) to operate Light ON mode. Dark ON mode is available with disconnection status.

Connections



Operation Mode



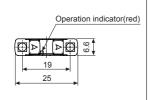
[※]If the control output terminal is short-circuited or overcurrent condition exists, the control output turns OFF due to
protection circuit.

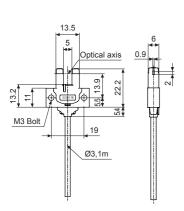
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Dimensions

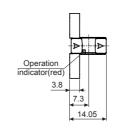
(unit: mm)

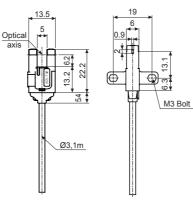
• BS5-K1M / BS5-K1M-P



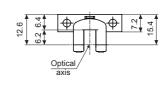


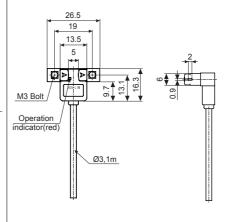
• BS5-T1M / BS5-T1M-P



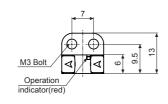


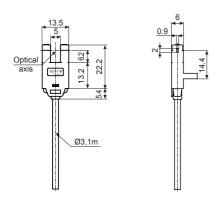
• BS5-L1M / BS5-L1M-P



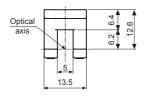


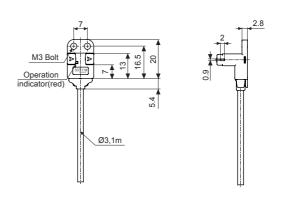
• BS5-V1M / BS5-V1M-P





• BS5-Y1M / BS5-Y1M-P





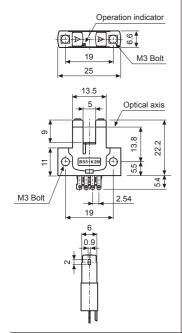
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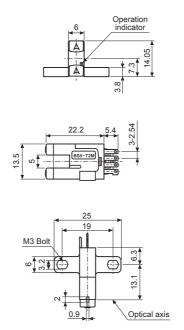
Dimensions

(unit: mm)

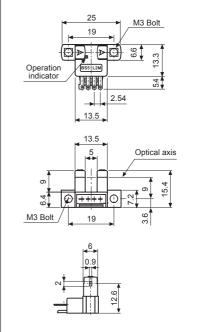
• BS5-K2M / BS5-K2M-P



• BS5-T2M / BS5-T2M-P



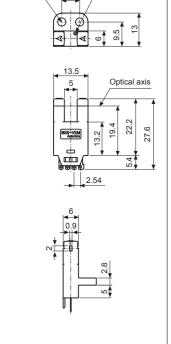
• BS5-L2M / BS5-L2M-P



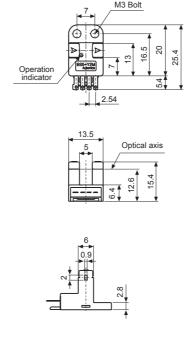
BS5-V2M / BS5-V2M-P

M3 Bolt

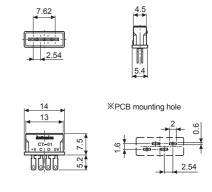
Operation indicator



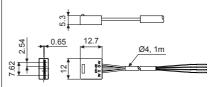
BS5-Y2M / BS5-Y2M-P



Socket: CT-01 (sold separately)



• Socket: CT-02 (sold separately)



- XCable: ø4, 4-wire, Length: 1m (AWG22, Core wire diameter: 0.08mm, No. of core wire: 60, Insulator out diameter: ø1.2mm)
- XCable length is available to option.

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