

discontinued without notice. Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

Sensing target

	Specif	ication
l ge	NPN outpu	it BA2M-DDT BA2M-DDTD
ž	PNP outpu	t BA2M-DDT-P BA2M-DDTD-P
Sens	sing type	Diffuse Reflective
Sens	sing distand	2m (non-glossy white paper 200×200mm)
Sensing target		Translucent, opaque materials
		Max. 20% at sensing distance
Power supply		12-24/DC= +10% (rinnle P-P: max 10%)
Curr	ent	Max 15m4 (max 20m4 when the output in ONI)
ons	sumption	
.ignt source Sensitivity		Infrared LED (850nm)
djustment		Sensitivity adjuster
Operation mode		le Light ON Dark ON
Control output		 NPN or PNP open collector output Load voltage: max.26.4VDC → Load current: max.100mA Residual voltage - NPN: max.1VDC →, PNP: max. 2.5VDC
Protection Fircuit		Reverse polarity protection circuit, output short overcurrent protection circuit
Receiver		Photo IC
ndicator		Operation: red, stability: orange (Light On), green (Dark On)
Isulation		Over 20MΩ (at 500VDC megger)
		, ±240V the square wave noise (pulse width:1us)
loise immunity		by the noise simulator
ielectric trength		1,000VAC 50/60Hz for 1minute
/ibration		1.5mm amplitude at frequency of 10 to 55Hz
esistance		
esis	stance	100m/s ² in X, Y, Z directions for 3 times
i	Ambient illuminatior	Sunlight: max.11,000lx, incandescent lamp: max.3,000lx (receiver illumination)
ť	temperature	-25 to 55°C, storage: -25 to 70°C
5 {	Ambient	35 to 85%RH, storage: 35 to 85%RH
Prote	ection	IP64 (IEC standards)
Vaterial		Case: ABS, Sensing part: PC, Indicator: PC, VR: IXEF
Cable		ø3mm, 3-wire, Length: 2m(AWG24, Core diameter: 0.08mm, Number of cores: 40, Insulator diameter: ø1mm)
Acce	essory	Adjuster screwdriver
	roval	
The	temnerati	re or humidity mentioned in Environment indicates a non-freezing or condensation
env	vironment.	
	Contro	ol Output Circuit Diagram
	Pho	otoelectric sensor circuit Connection
		(brown)+V
		Load
IPN pen		tig (black)Output +
olle	ctor	
utpu	ut	Tere I Output short ↓ ▲ Max. 100mA →
		protection circuit
	Ph	otoelectric sensor circuit Connection
		(brown)+V
NP		Output short
pen	.	g protection circuit ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
olleo utpu	ctor ut	- Max. 100mA + 12-24VDC
		≤ / (black)Output
		(blue)0V
lfs) nor	hort-circui	the control output terminal or supply current over the rated specification,
		or organa to not output due to the output short over current protection offCult.
1	Conne	ection
ŧ		(brown)
	\sim	/+
Ť.		

(black)Output



When using photoelectric sensors closely over two units, it may result in malfunction

Mount this unit at center position where operation LED turns on as moving the unit

1. When sensing the object, set the sensitivity adjustment in stable Light ON area (orange:

3. Set the target at a position to be detected by the beam, then turn the adjuster until position

1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected

2. When connecting a DC relay or other inductive load to the output, remove surge by

5. Wire as short as possible and keep away from high voltage lines or power lines, to

(Control output according to amount of receiving light)

- Laser Marking System(Fiber, CO₂, Nd:YAG)
- Laser Welding/Cutting System

- South Korea 48002 TEL: 82-51-519-3232
- E-mail: sales@autonics.cor

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