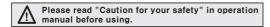
Small size, long distance diffuse reflective type

■Features

- •Capability of detecting long distance (2m) by special optical design.
- •Stable received light indicator built in.
- •Sensitivity adjustment function built in.
- •2 color LED display.





■Specifications

Model	BA2M-DDT
Туре	Diffuse reflective
Detecting distance(*)	2m
Detecting target	Transparent, Translucent, Opaque material
Hysteresis	Max. 20% at rated setting distance
Response time	Approx. 1ms
Power supply	12-24VDC ±10% (Ripple P-P : Max. 10%)
Current consumption	Max. 15mA(Max. 30mA when the output is ON)
Light source	Infrared LED(850nm modulated)□
Sensitivity adjustment	Adjustable VR
Operation mode	Light ON(Dark ON mode is optional)
Control output	NPN open collector output P Load voltage: Max. 30VDC, Load current: Max. 100mA, Residual voltage: Max. 1V
Protection circuit	Reverse polarity protection, Output short-circuit protection
Receiver	Photo diode(Built−in IC)□
Indication	2 color LED [Operation : Red, Stability : Yellow(Red+Green)]
Insulation resistance	Min. 20MΩ (at 500VDC)
Noise strength	$\pm 240 \mathrm{V}$ the square wave noise (pulse width: 1 μ s) by the noise simulator
Dielectric strength	1000VAC 50/60Hz for 1minute
Vibration	1.5mm amplitude at frequency of 10 \sim 55Hz in each of X, Y, Z directions for 2 hours
Shock	100m/s ² (10G) in X, Y, Z directions for 3 times
Ambient illumination	Sunlight: Max. 10,000 <i>l</i> x, Incandescent lamp: Max. 3,000 <i>l</i> x
Ambient temperature	-20 ~ +55 °C (at non-freezing status), Storage : -25 ~ +70 °C
Ambient humidity	35 ~ 85%RH
Protection	IP50 (IEC specification)
Material	Case: PBT, Lens: PMMA
Cable	3P, ∅3mm, Length: 2m
Accessory	Sensitivity adjustment tool
Approval	C€
Weight	Approx. 50g

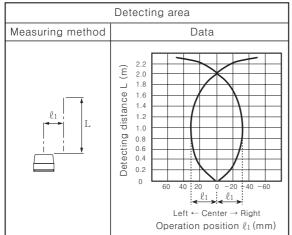
CE

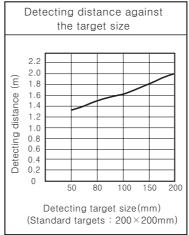
(*) It is for Non-glossy white paper ($200 \times 200 \, \text{mm}$).

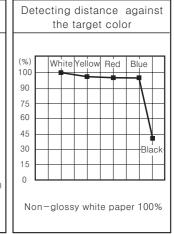
J-9 Autonics

DC Long Distance Diffuse Type

■ Characteristic







(A) Counter

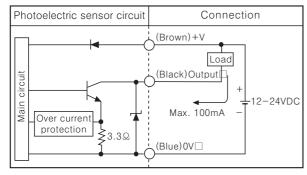
(B) Timer

(C) Temp.

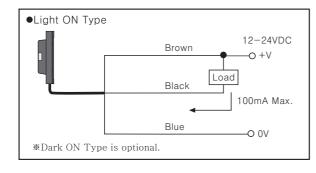
Power controller

(E) Panel meter

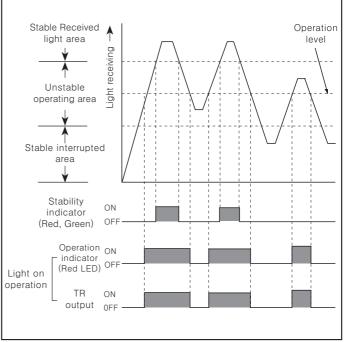
■Control output diagram



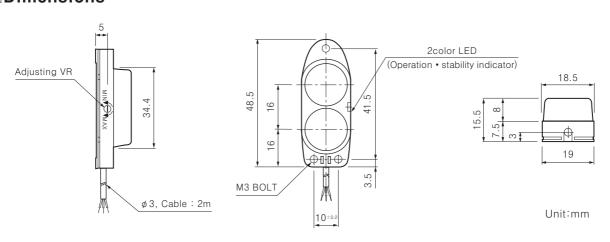
Connections



Operation mode



Dimensions



Tacho/ Pulse meter

Display unit

Sensor controller

Proximity

(J) Photo

electric sensor

Pressure sensor

Rotary encoder

(M) 5-Phase stepping motor & Driver & Controlle

Autonics J - 10