

Photoelectric Sensor
V series



- Universal voltage photoelectric sensor 12~240 VDC / 24~240 VAC. M12 QD types are available.
- Relay contact (AC/DC models) and Transistor output (DC models).
- Rugged duty sensor housing.
- BGS-V2000, long sensing distance (2m) with BGS operation.

Applications



Rubber / plastic industry



Transportation industry



Material handling

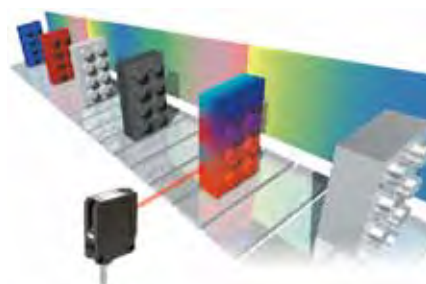
High power light source

The strong LED light source assures stable sensing even in misty or dirty conditions.



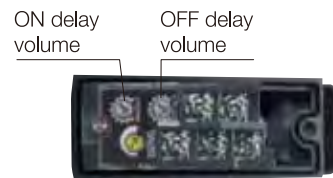
Long sensing BGS-V2000 (2m) BGS type

BGS-V2000 , 2m sensing BGS sensor.



Timer Function

Adjustable ON delay, OFF delay and ON+OFF delay time by individual delay trimmer.
From 0.1 to 10 sec.



Applicable for use world-wide

24 to 240V AC
12 to 240V DC.



C

C2

E

J

J2

J3

V

V2

V3
V4

SR-Q

S

Z
BGS-Z

Z2

ZM

K

BGS-2S

Y

DM-18T

Accessory

Specifications

Model	Thru-beam	Retro-Reflection	Diffused-Reflection Red LED	Diffused-Reflection IR LED	BGS type
Relay output type	VT-4000	VR-1000	VD-130	VD-300	BGS-V2000
	VT-4000T	VR-1000T	VD-130T	VD-300T	BGS-V2000T
Transistor output type	VT-3000N / 3000P	VR-800N / 800P	VD-100N / 100P	VD-250N / 250P	BGS-V2000N / 2000P
	VT-3000CN / 3000CP	VR-800CN / 800CP	VD-100CN / 100CP	VD-250CN / 250CP	BGS-V2000CN / 2000CP
Sensing distance	40 meter	10 meter	1.3 meter	3 meter	2 meter
	30 meter	8 meter	1 meter	2.5 meter	2 meter
Response time	20msec				
	1.5msec			5msec	
Operating mode	Relay type = Light On fixed, NPN / PNP type = Light On / Dark On switchover				
Hysteresis	NIL			20% Max	15% Max
Light source	Red			Infrared	
Control output	NO / NC AV240V / DC30V,3A				Relay 1C, AC250V, DC30V, 3A
	NPN or PNP Open collector, 100mA Max / 30V DC				
Supply voltage	AC24-240V, DC12-240V +/-10% ripple				
	DC10-30V incl. 10% ripple				
Conformity	JIS / C4525, CE, UL				
Power consumption	8.5VA	5VA			
	35mA		5mA		
Cable connection	Terminal chamber, applicable cable $\phi 6$ to $\phi 10$				
Test input	Available in Transistor output types				
Operating temp	-25~+55°C				
Operating humidity	35~85% RH				
Sensitivity adjustment	Single turn trimmer				TEACH-IN
Protection	IEC 144, IP67				
Shock resistance	50G, XYZ 3-ways				
Materials	Glassfiber reinforced ABS (Case), PMMA (Lens)				ABS (Case), PC (Lens), PMMA (Cover)

Options

Standard reflector V-61



Small reflector V-42



Connector cable DOL-1204-G02M

