

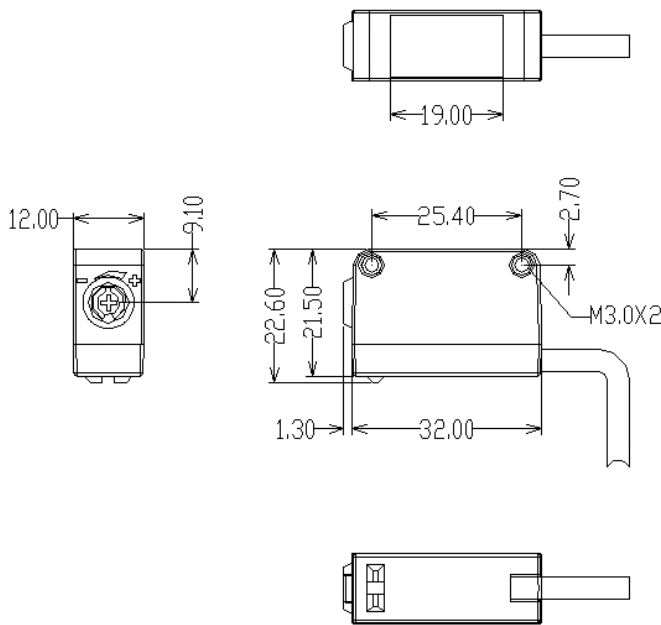
# Laser BGS type proximity sensor V5ZL-BG series



## Highlights

- Laser light source, small spot to achieve accurate detection of small objects;
- With BGS function, the detection is not affected by workpiece material and background color;
- Point spot or line spot can be selected according to application requirements;
- Strong anti-interference and high stability.

## Dimension

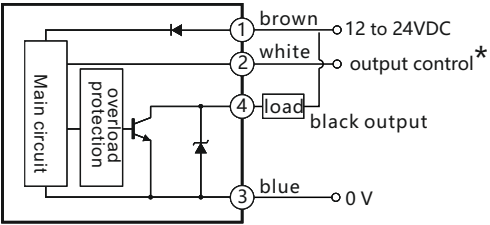


## Product parameters

Type		Diffuse	
Model	NPN	V5ZL-BG30N(point spot)	V5ZL-BGL30N(line spot)
	PNP	V5ZL-BG30P(point spot)	V5ZL-BGL30P(line spot)
Appearance			
Sensing range		40-300mm(white paper 100mm) 40-280mm(black paper 100mm)	
Black and white error		3%( distance 160mm)	
Hysisteresis		Less than 3% of rated detection distance	
Sensing range		30-300mm	
Current consumption		Max. 30mA	
Light source		Laser (655nm) JIS/IEC CLASS1,FDA CLASSI max. 4.5mW	
Control output		The load power supply voltage is max. DC26.4V, the load current is max. 100mA, the leakage current is less than 10 μ, and the collector is open circuit output	
Output residual voltage		Residual voltage below 1V (load current max. 10mA) residual voltage below 2V (load current max. 10 ~ 100mA)	
Power voltage		DC 12~24V±10% ripple (P-P) max.10%	
Response time		max. 0.5ms	
Ambient temperature		Working :-25~+55°C, storage : -40°C~+70°C	
Ambient humidity		Working:35~85%RH, storage : -35~95%RH	
Protection		Power reverse protection / load short circuit protection / mutual interference prevention function / output reverse connection protection	
Ip level		IEC60529 : IP6	
Material	shell	Polybutylene terephthalate	
	display unit	Polyester rubber	
	lens	Polyester rubber	

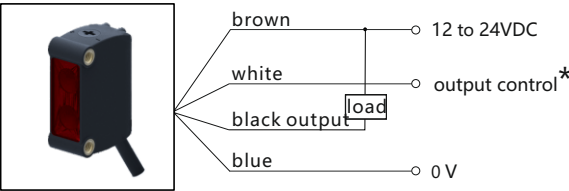
## Input/Output circuit

### NPN

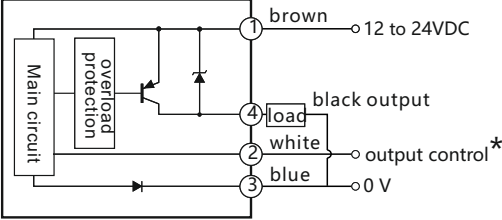


\*LIGHT-ON = NC  
DARK-ON = NO

### Connection diagram



### PNP



\*LIGHT-ON = NC  
DARK-ON = NO

### Connection diagram

