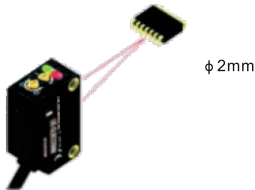


# Laser proximity sensor V5ZL-G/GT/GR series

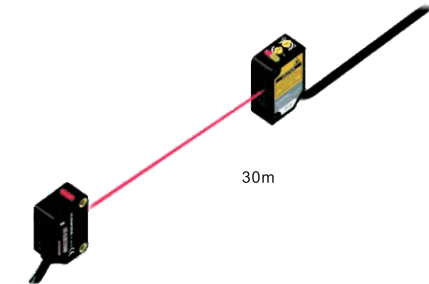
## Highlights

- Ultra small spot;  
The laser spot diameter is 2 mm, It can accurately detect small objects with high repetition accuracy;

V5ZL-G series diffuse sensors



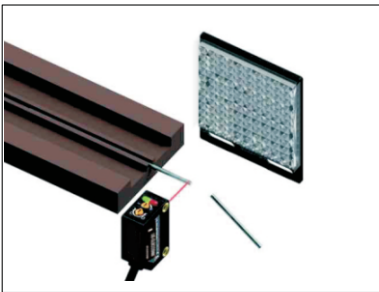
V5ZL-GT series through beam sensors



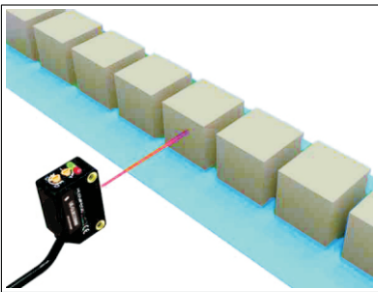
The maximum detection distance is 30m.

- 1 ms high speed response time;  
1 ms high speed response time, suitable for detecting fast passing objects;
- Simple and easy adjustment;

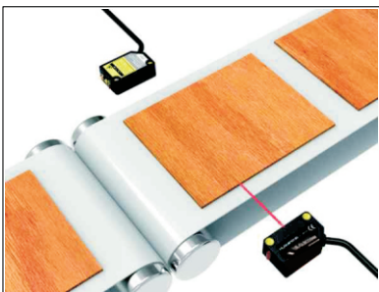
## Application



Detection of small metal parts



Detection of fast moving objects



Would plate detection

## Product parameters

Type		Diffuse	Retroreflective	Through beam
Model	NPN	V5ZL-BG30N	V5ZL-GR10MN	V5ZL-GT30MN
	PNP	V5ZL-BG30P	V5ZL-GR10MP	V5ZL-GT30MP
Apperance				
Sensing range		300mm	10m	30m
Current consumption		20mA max		30mA max
Spot size		about 1×2mm		
Hysteresis		20% Max.		
Light source		Laser (650nm)		
Supply voltage		DC 12~24V±10%		
Response time		1ms max.		2ms max.
Ambient temperature		-10~+50°C		
Ambient humidity		35~85%		
Storage Tem./Hum.		-20~+60°C/35%~95%		
Vibration Resistance		10-55Hz, amplitude 1.5mm X,Y,Z each 2hours		
Shock Resistance		500m/s² amplitude, X,Y,Z each 3 times		
Protection		IP65		
Laser stage		class II		
Output Indicator		Red LED		
Power indicator		Orange LED		
Sensitivity adjust		Single turn potentiometer		
No/Nc mode		NO (light on) / NC (dark on) can switch		
Connection type		Cable type (2m standard cable)		
Shell Material		PC		

## Input/Output circuit

