

Subminiature laser Photoelectric sensor V5UF-GD/GT series



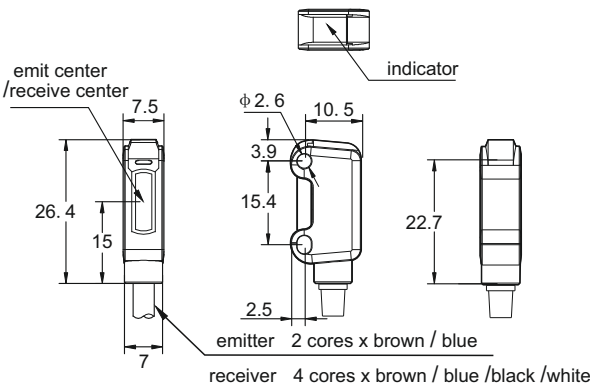
Product characteristics

- Ultra small spot;
The laser spot diameter is 1.5mm,
It can accurately detect small objects with high repetition
accuracy.
- 1 ms high speed response time;
1 ms high speed response time, suitable for detecting fast passing
objects.
- Simple and easy adjustment;
The laser is visible, so it can be easily adjusted while observing
the light spot.
- Small size, save space;
- Easy to install, using standard m3 screws;
- A unique stable detection algorithm is adopted;
- Waterproof characteristics of stainless steel
SUS316L shell;
- With metal shell, it can be used in high humidity
environment of water or other liquids.
- Protection level.
IP67

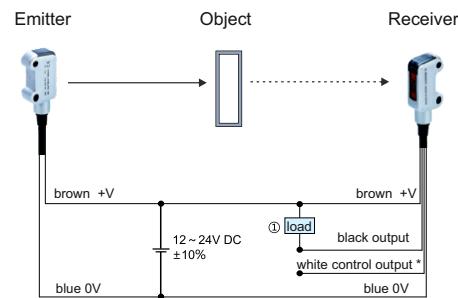
Product specifications

Product specifications

Type	Diffuse		Through beam
Model	NPN	V5UF-GD51N	V5UF-GT51N
	PNP	V5UF-GD51P	V5UF-GT51P
Apperance			
Sensing range	400mm		10m
Current consumption	20mA max		30mA max
Spot size	1.5mm		
Hysteresis	20% Max.		
Light source	laser 650nm		
Power voltage	DC 12~24V ± 10%		
Response time	1ms max.		
Ambient temperature	-10~+50°C		
Ambient humidity	35~85%		
Storage. Temp. / humidity	-20~+60°C/35%~95%		
Vibration (durability)	10 to 55Hz, Composite amplitude 1.5mm, X, Y, Z axis direction each 2 hours		
Impact (durability)	500m/s ² X, Y, Z each axis direction 3 times		
Protection level	IP67		
Laser grade	classII		
Output indicator	Red LED		
Power indicator	Green LED		
Sensitivity modulation	Single turn potentiometer		
No/Nc mode	No/ Nc can be switched		
Connection mode	Cable 2M		
Shell material	SUS316L		



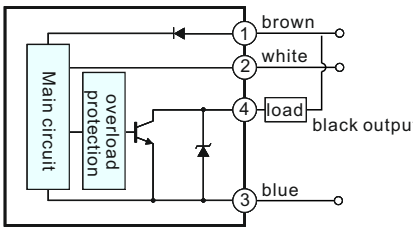
Through beam type



I / O circuit diagram

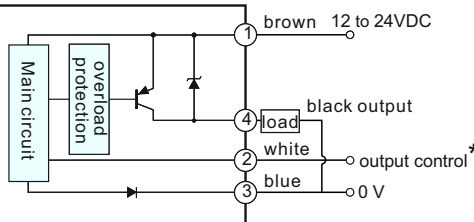
Diffuse type

NPN



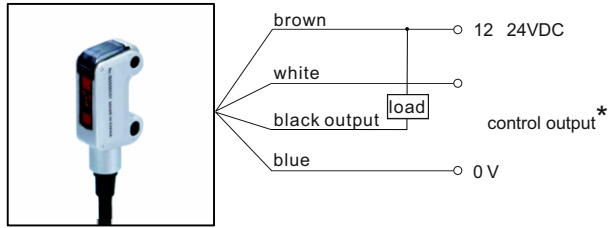
*LIGHT-ON mode
DARK-ON mode
white—NC (not connect)
white—0V

PNP



*LIGHT-ON mode
DARK-ON mode
white —Nc (not connect)
white —0V

Wiring diagram



Wiring diagram

