Photoelectric proximity sensor

V₅ Group

Proximity photoelectric sensor VL18 series







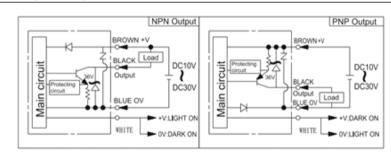
Highlights

- Economical solution for numerous applications;
- Sensing distance defuse type up to 800 mm, adjustable via potentiometer , retro reflective type up to 3m and trough beam type up to 10m $\,$;
- Red or infrared light source;
- Variants with angled light exit;
- Robust metal housings (IP 67);
- Simple adjustment via potentiometer;
- 2 through holes as additional mounting possibility

Product parameters

Туре		Diffuse	Retro re	eflective	Trough beam	
Model	NPN	See part number in detailed product brochure		See part r	ee part number in detailed product brochure	
	PNP	See part number in detailed product brochure		See part number in detailed product brochure		
Products shape				3		
Sensing range		Defuse type 2-800mm (white paper 100mm) Defuse type 2-280mm (black paper 100mm)	Retro reflective 2-3000mm (Regular type model) Retro reflective 2-1500mm (Regular and transperent type model)		Trough beam type 2-10000mm (Regular type model)	
Black and white error		3%(distance 160mm)				
Hysisteresis		Less than 3% of rated detection distance				
Output type switching		N.O./N.C. via control white wire to power				
Current consumption		Max. 100mA				
Light source		Red light sou	Red light source 630nm		Infrared light source 850nm	
		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: IP67				
Material	shell	Polybutylene terephthalate \ Brass Nickel Plated				
	display unit	Polyester rubber				
	lens	Polyester rubber				

■ Input/Output circuit



Dimension

