

Ultra-thin miniature proximity photoelectric sensor V5UE-03 series

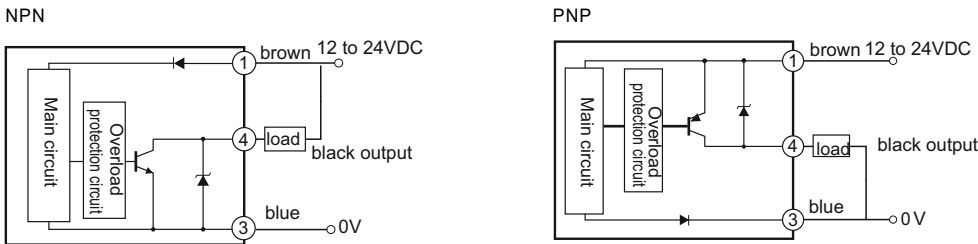
■ Highlights

- Simple settings with only one key usage
- Small size, ultra-thin detector head, small volume, flexible and bending cable, good vibration resistance, impact resistance and strong anti-interference ability
- Simple intuitive Installation, debug free technology, low failure rate, greatly improving the stability of the feeding system detection, convenient maintenance;

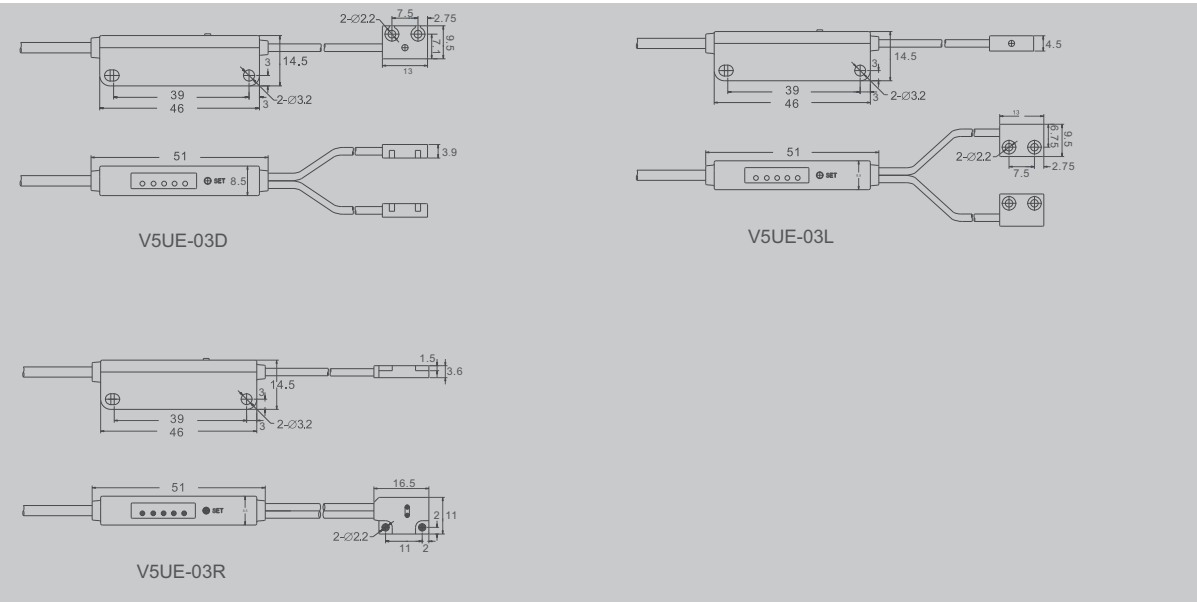
■ Product parameters

Model	NPN	V5UE-03DN	V5UE-03LN	V5UE-03RN
	PNP	V5UE-03DP	V5UE-03LP	V5UE-03RP
Type		Front through beam	Side through beam	Diffuse
Sensing range		80cm	70cm	3cm
Light source		Infrared		
Response time		500μs		
Control output	NPN	NPN collector open circuit 24V; maximum output value: 50mA, residual voltage: 1.5V		
	PNP	PNP collector open circuit 24V; maximum output value: 50mA, residual voltage: 1.5V		
Protection circuit		Reverse electrode protection, over-current protection, over-voltage protection		
Power voltage		12 to 24 V DC ± 10%, ripple voltage P-P: 10% maximum		
NPN		Normal: maximum 360mW (15mA at 24V; 30mA at 12V)		
PNP		Normal: maximum 360mW (15mA at 24V; 30mA at 12V)		
Ambient luminosity		Incandescent lamp: 20000 lux; daylight: 30000 lux		
Ambient temperature		-20 to + 55 ° C (no freezing)		
Ambient humidity		35 to 85% RH (no condensation)		
Vibration resistance		10 to 55Hz, composite amplitude of 1.5mm, 2 hours in X, y and Z directions		
Impact resistance		500m / S ² 3 times in X, y and Z axis directions		
Shell material		polycarbonate		
Dimensions		51mm(H)x8.5mm(W)x15mm(D)		
Weight		about 45g (with 2M cable)		

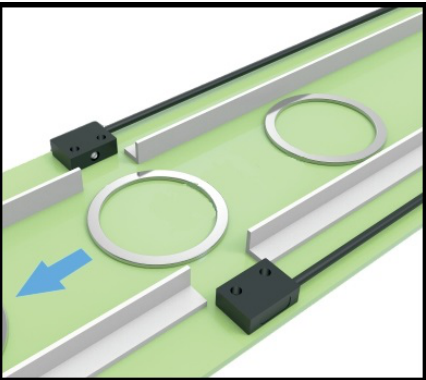
■ Input/Output circuit



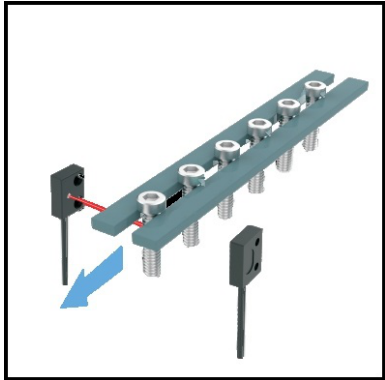
■ Dimension



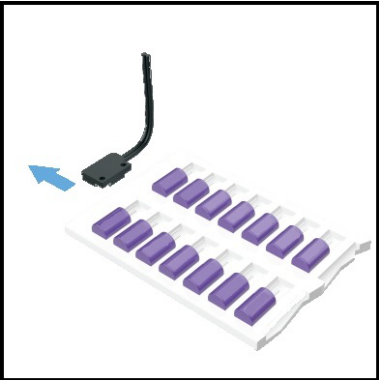
■ Application



Check whether there is thin workpiece on the conveyor belt



Inspection of small parts on conveyor belt



Detection of missing capacitors on the tray