

Color Sensor CPES series

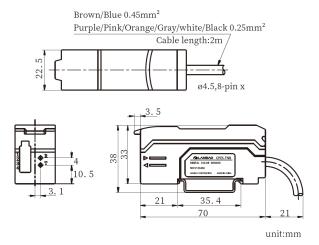


Features

- Micro-color recognition
- Simple sensitivity adjustment, intelligent and digital setting
- Small size and high power dedicated detection head
- 8-channels or 4-channels detection, when multiple colors are detected, the functions can be changed from one generation to eight, reducing production costs
- Can detect nearly 3000 colors
- A variety of detection modes are suitable for a variety of different application requirements

Model specification				
NPN	CPES-TNB	PNP	CPES-TPB	
Specifications				
Response time	200µS(HIGH SPEED)/1ms(FINE)/4ms(TURBO)/8ms(SUPER)			
Control output	NPN(PNP)Open collector X4 channel, max 40VDC(30VDC),1 output reaches 100mA,			
	A total of 4 outputs reach 200mA, residu	al voltage:1V max		
Protection circuit	Reverse protection, Overcurrent protection, Overvoltage protection			
External calibration input	Input time: ≤20ms			
External switching input (C/C+I mode)	Input time: ≤20ms			
External offset input (Super Imode)	Input time: ≤20ms			
Timer function	Timer OFF/OFF-delay/ON-delay/single trigger, timer time is adjustable from 1 to 1,000ms (for each domain separately)			
Power supply	24VDC, Ripple(P-P): <10%			
Consumption current	Normal mode: 1.5W(≤62.5mA),Eco mode: 1W(≤42mA)			
Ambient temperature	-1055°C(No condensation)			
Vibration resistance	1055Hz, dual amplitude 1.5mm(2 hours each in X, Y, Z directions)			
Material	Housing、Cover: PC			
Weight	About 150g (with 2m cable)			

Dimensions

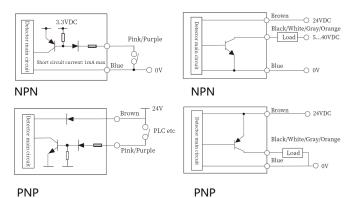


Wiring diagram

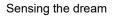
Input circuit

Output circuit

External regulation(Pink)/External database selection/external shift(purple)



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Detection head **CPES** series

(LANBAO



Model specification		
NPN	CPES-C09	
Specifications		
Examination range	2852mm	
Min spot diameter	4.5mm@40mm	
Light source	Composite LED:Red/Green/Blue(Lightsource wave length:665nm/520nm/465nm)	
Minimum bending radius	R25mm	
Ambient luminosity	Incandescent: maximum 1,000lux; Daylight: maximum 20,000lux	
Ambient temperature	-1055°C(No condensation)	
Vibration resistance	1055Hz, dual amplitude 1.5mm(2 hours each in X, Y, Z directions)	

Material	Body: PC; Lens cover: Polyarylate
Weight	About 40g (with 2m cable)

IP40

Dimensions

Protection degree

