

E3S-GS50xx infrared u type photoelectric sensor

Introduction

Photoelectric switch is a photoelectric proximity switch for short, it is the use of the object to be detected on the beam occlusion or reflected by the gating circuit, synchronous circuit, so as to detect objects without. Can be a photoelectric switch objects are not limited to metal, all reflect light objects can be detected. Photoelectric switch input current conversion injection into optical signals on the transmitter, receiver, and then according to the received light intensity and with or without detection of target objects.

Detection method			Trough / U type	
Model	DC type	NPN	NO	E3S-GS50E4
			NC	E3S-GS50E2
			NO+NC	E3S-GS50E42
	PNP	NO	E3S-GS50F4	
		NC	E3S-GS50F2	
		NO+NC	E3S-GS50F42	
Examination range			50mm	
Detection range adjustment			Sensitivity adjuster	
Detection target			Opaque object	
Response time			1ms	
On delay			1.5ms	
Light source			Infrared light 660nm	
Voltage			DC type: DC12-24V (6-36V) pulsation (P-P) below 10%, AC type: AC110-220V (90-250V) 50/60Hz	
Withstand voltage			AC1000V 50/60Hz 1min between the charging part and the outer casing	
Voltage effect			Rated power supply voltage range within $\pm 15\%$, rated power supply voltage value, $\pm 10\%$ detection distance	
Current consumption			N.P type: 13mA or less, type A: 1.7mA or less	
Control output			N.P type: 300 mA or less, A type: 400 mA or less, J type: 2 A or less (contact life: 100,000 times)	
Loop protection			N.P.D type: reverse connection protection, surge absorption, load short circuit protection, type A: surge absorption	
Ambient temperature and humidity			During operation and storage: each -30 - $+65$ °C (no ice, no condensation) During operation and storage: 35-95% RH each	
Temperature effect			Temperature range -30 - $+65$ °C, $+23$ °C, $\pm 15\%$ detection distance Temperature range -25 - $+60$ ° C, $+23$ ° C, $\pm 10\%$ detection distance	
Insulation resistance			50M Ω or more (DC500 megohmmeter) between the charging part and the outer casing	
Material			Housing: ABS detection surface (lens): PMMA	
Protective structure			IP67 (IEC specification)	