

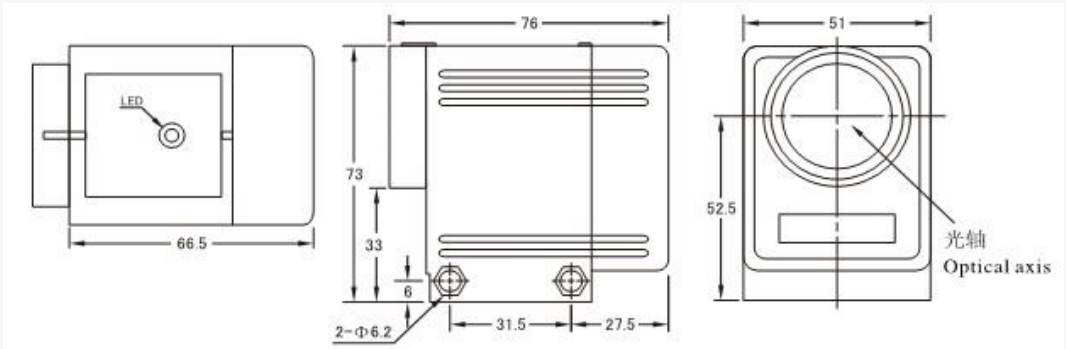
5 Wire NO + NC DC 5m Trough Beam Photoelectric Sensor GDK-5



Features:

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that's it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Vountermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure
- Read the "Matters needing attention" of the Product Instruction before use

Specifications:

model	GDK- □		
Size			
Detection Method	On the radio		
model	Following the	Liang Tong DC DC	GDK-5

	electrical device outputs	Alternating light-on AC	GDK-5
		Liang Tong DC DC	
		Alternating light-on AC	
Detection Range		5m ± 10%	
Target Detection		Opaque objects	
Detection Range Adjustment		Fixed Fixed	
Response Time		30ms	
On Delay		1.5ms	
light Source		Infrared light 660nm	
Voltage		DC type: DC12-24V (6-36V) Ripple (PP) 10% or less, the exchange type: AC110-220V (90-250V) 50 / 60Hz	
Withstanding Voltage		Room AC1000V 50 / 60Hz 1min charge portion of the housing	
Influence of voltage		Within the rated supply voltage range of ± 15% rated supply voltage value, ± 10% detection distance	
Current Consumption		NP type: 20mA or less, A Type: 1.7mA or less	
Control Output		NP type: 300mA or less, A Type: 400mA or less, J type: 2A or less (contact life: 100,000 times)	
Circuit Protection		NPD type: reverse connection protection, surge absorber, load short-circuit protection, A Type: Surge absorption	
Ambient Temperature and Humidity		When the operation Storage: -30- + 65 °C (with no icing or condensation), when the operation Storage: 35-95% RH	
The effects of Temperature		Temperature range -30- + 65 °C, + 23 °C when, ± 15% detection distance within a temperature range of -25- + 60 °C, + 23 °C when, ± 10% detection distance within	
Insulation Resistance		50MΩ or more between (DC500 megger) charging section of the housing	
Material		Housing: die-cast aluminum ABS detection surface (lens): PMMA	
Protective Structure		IP67 (IEC standard)	

Applications Legend:

1. Thick carton detection

Use photoelectric switch with diffuse reflection when the sensor can't be mounted on one side

Built-in power type photoelectric switch

Photoelectric switch with diffuse reflection

2. Alarm device of the crane

The direction judgment of the crane and the detection of the approach into the dangerous zone

Slot type photoelectric switch

Dangerous zone

Crane

Output

Slot type photoelectric shape

3. Tag detection of the beer bottle

Check the beer bottle with the reflection type photoelectric switch, and check whether there is a tag with the correlation type photoelectric switch.

Tagging device

Reset

Button

Reflection type photoelectric switch, correlation type photoelectric switch

4. Steady detection of mirror surface object

It's available for mirror surface object to undertake steady detection without any misoperation in terms of function MSR.

反射器 Reflector

Reflection type photoelectric switch

5. Water level detection inside glass tube

Mount the light projector and the light receptor at a slightly staggered angle and the lens on the light projector is the key point. The water level drops, it turns into lightproof state, and the precision of water level detection is up to 1mm.

Light receptor 受光器

装透镜 Mounting the lens

上限 Upper limit

下限 Lower limit

Light projector 投光器

A slightly staggered angle 稍有错开的角度

Correlation type optical fiber sensor

6. Gas tight detection

When the substrate is translucent, undertake detection with correlation type.

Air proof

Optical fiber correlation type photoelectric switch

7. Mark detection

色标 Color mark

Mark sensor

8. Inclination detection

Photoelectric switch with diffuse reflection

9. Safety detection in robot work area

Safety optical veiling sensor