Inductive Proximity Sensor/Switch Datasheet

CF-SU-07X Slot Type Color Identity Photoelectric Switch Sensor

Introduction

- Photoelectric sensor is a piece of equipment used to discover the distance, absence, or presence of an object by using a light transmitter, often <u>infrared</u>, and a photoelectric receiver. There are three different useful types: through beam, diffused and retro-reflective.

- Through-beam type photoelectric switch is designed that via the light beam between opposite-mounted transmitter and receiver, the object passing through these two devices will interrupt the light beam and start the receiver. The detection range of this type is up to 50M from 5M.

- Diffuse reflection type photoelectric switch integrates the transmitter and the receiver. Light reflected by the photoelectric switch is reflected back to the receiver by the detected object. Normally the detection range of this type is from 10cm to 1M.

- Retro-reflective type photoelectric switch also integrates the transmitter and the receiver. Its difference from other models is that reflector is used to reflect light to the photoelectric switch. The detection range of this type is up to 2M.
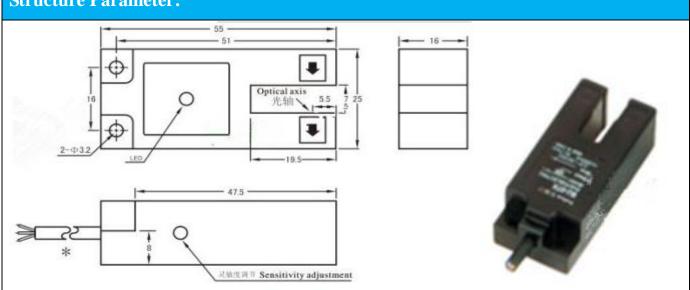
Features:

- All-purpose type ,which can directly substitute the same type of P+F and OMRON
- Power supply reversal connection protection ;can directly connect with PLC
- For slot type ,there is no need to adjust the optical axis
- Long service life ,high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure (IEC specification)

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Structure Parameter:

Technical Parameter:

Dimension				16×25×55
Type	DC type	NPN	NO	CF-SU-07X
			NC	CF-SU07XB
		PNP	NO	CF-SU07XP
			NC	CF-SU07XPB
Supply voltage				DC6-36V
Detection method				Slot type
Detection range				7mm
Detection target				Opaque object
Detection range regulation				Sensitivity adjuster
Response frequency				300 Hz
Working current				300mA below
Insulation impedance				50 MΩ
environment temperature				-20℃~70℃(248-343K)
Connection form				2m, PVC
Protection grade				IP65