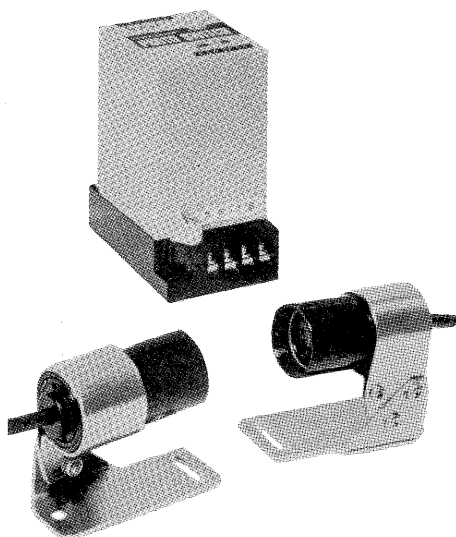


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FUJI PHOTO SWITCHES



The photo switch is employed as the sensor in counting, position control, annunciator systems, etc., to detect various opaque bodies without coming in contact with the objects.

The photo switch consists of a transmitter, receiver and control box. Each of the components is of solid state construction.

A pulse modulated voltage generated in the control box is applied to the Ga-As light emitting diode emitting the pulse light. This light, located in the infrared zone of the spectrum, is an invisible light.

Thus, the photo switch is not affected by any external light. The switch is protected against electrical noise and maintains extremely stable operation.

The maximum detecting distance of this photo switch is 3 meters. However, FUJI Electric manufactures photo switches with longer detecting distances of 5 and 30 meters and switches with short detecting distances of 30 cm.

Specifications

Basic type	Transmitter: AEA 33 A Receiver: AEA 33 B Control box: AEE 33 A	
Maximum setting distance	3m	
Diameter of light beam	Approximately 50φ at the 3m position	
Wiring distance	Less than 10m between the receiver and control box (shield cable is used)	
Ambient temperature	Transmitter and receiver: -20°C ~ +65°C Control box: -30°C ~ +50°C	
Voltage range	AC	100/110 V AC, 200/220 V, 50/60 Hz, 85~110%
	DC	24 V DC, 80~120%
Power consumption	2 W	
Minimum diameter of detected material	23 φ	
Maximum switching frequency	50 switchings/sec	
Operating method	Output on when the high beam is cut off	
Specifications of output	AC load	110V AC or 220V 0.5A Triac output
	DC load	24 V DC 0.1A Transistor output
Dielectric strength	2000 V AC for one minute	
Insulation resistance	Over 100 MΩ (tested with 500V megger)	
Product weight	Transmitter and receiver: 270 g AC control box: 420 g DC control box: 200 g	