

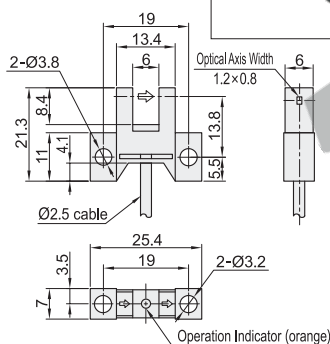
Standard Type • Integrated

Cost-Effective, Groove Width 6mm

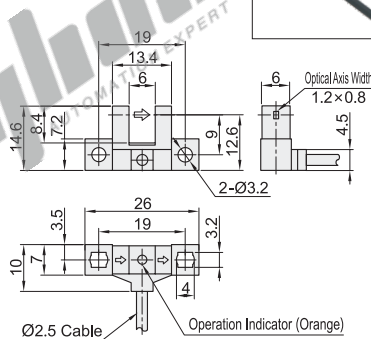
Slot Sensors

Code	Type	Groove Width
ZJF46	Standard Type Integrated	6mm

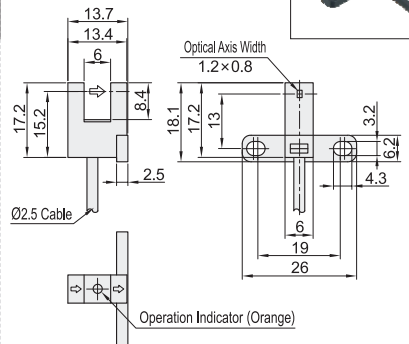
ZJF46-K45-N/P



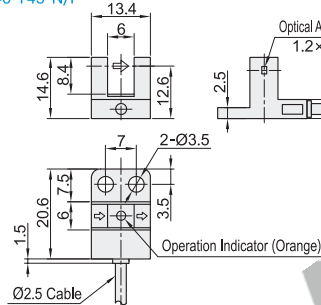
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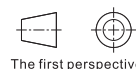
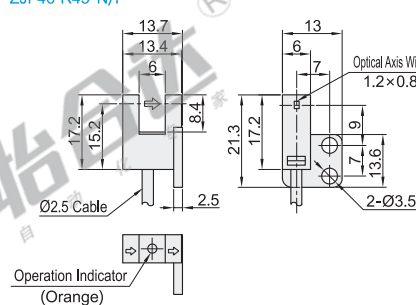
ZJF46-T45-N/P



ZJF46-Y45-N/P

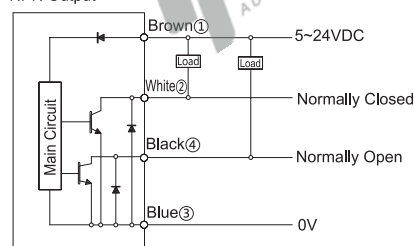


ZJF46-R45-N/P

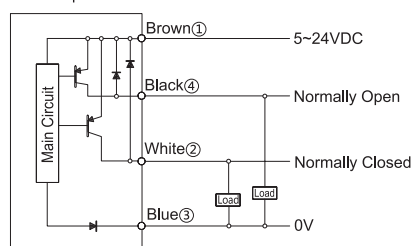


Circuit Diagram

NPN Output



PNP Output



Technical Parameters

Detection Distance	6mm
Minimum Detectable Object	0.8×1.2mm, Opaque Objects
Movement Differential	0.05mm below
Repeatability	0.01mm below
Supply Voltage	5~24V DC±10%, pulsation P-P10% below
Consumption Current	15mA below
Output	NPN/PNP open collector transistor Maximum inflow current: 50mA, applied voltage: 30V DC below, voltage drop: <2V
Output Action	Light ON/Dark ON, 2 Outputs
Response Time	Light on: 20μs below dark on: 80μs below (maximum response frequency 3KHz)
Indicator Light	Red LED (Light On)
Ambient Temperature	Operating: -25°C~+55°C, storage: -30°C~+80°C, with no icing or condensation
Ambient Humidity	Operating: 5%~85%RH storage: 5%~95%RH, with no condensation
Ambient Illumination	Fluorescent light: light-receiving surface luminance 1000Lx
Voltage Resistance	AC1000V 1 minute, between current carry parts and case
Insulation Resistance	Between current-carry parts and case, 20MΩ above (at DC250V)
Vibration Resistance	Frequency 10~2000Hz, double amplitude 1.5mm, 2 hours each in X, Y, Z direction
Shock Resistance	Acceleration 15000m/s ² (about 1500G), 3 times each in X, Y, Z direction
Light Emitting Element	Infrared LED (emission peak wavelength: 940nm, non-modulated)
Material	Case: PC+ABS, Display Shield: ABS
IP Rating	IP66
Wiring Method	Direct Wiring 1M/4 Core

Part Number		Output Mode
Code	Specifications	
ZJF46	K45	N (NPN)
	L45	
	T45	P (PNP)
	Y45	
	R45	



Part Number		Output Mode
code	Specifications	
ZJF46	K45	N(NPN)
	L45	

ZJF46—K45—N