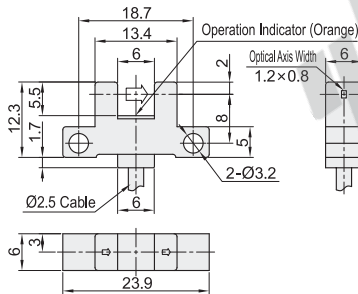
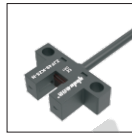


Slot Sensors

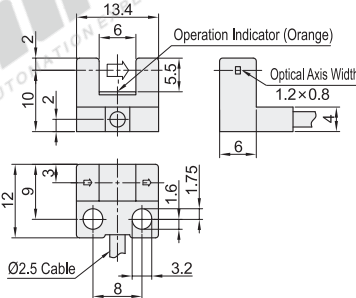
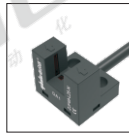
◀ Ultra Small • Integrated
Cost-Effective, Groove Width 6mm

Code	Type	Groove Width
ZJF49	Ultra Small Integrated	6mm

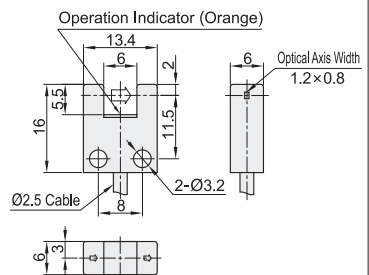
ZJF49-K25-N/P



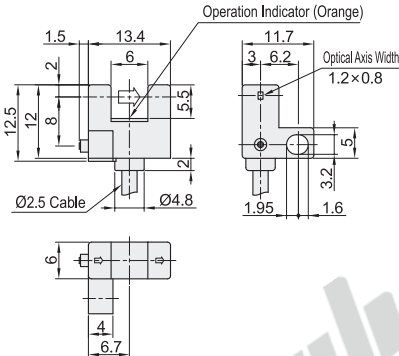
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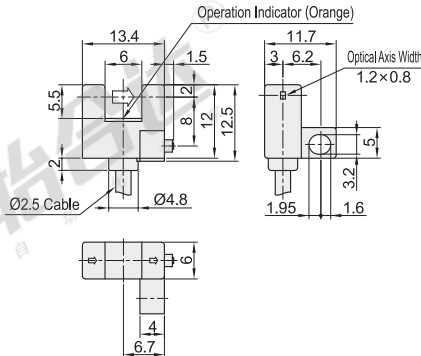
ZJF49-U25-N/P



ZJF49-F25-N/P

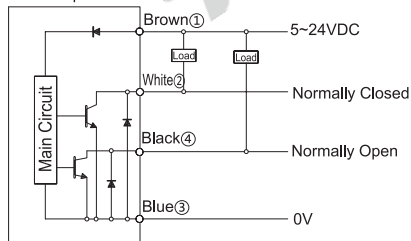


ZJF49-R25-N/P

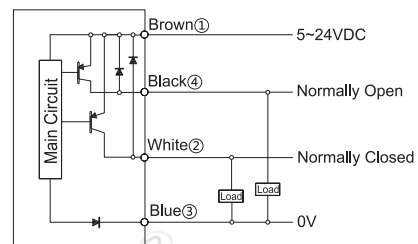


□ Circuit Diagram

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-P 10% below
Consumption Current	15mA below
Output	NPN/PNP Open collector transistor Maximum inflow current: 50mA; applied voltage: 30V DC below; voltage drop: < 2V
Output Operation	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 illuminance 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/s² (about 1500G), 3 times each in X, Y, Z direction
Light Emitting Element	Infrared LED (emission peak wavelength: 940nm, non-modulated)
Material	Case: PC+PBT, Display Shield: ABS
IP Rating	IP66
Wiring Method	Direct Wiring 2M/4 Core

Part Number		Output Mode
Code	Specifications	
ZJF49	K25	N (NPN)
	L25	
	U25	P (PNP)
	F25	
	R25	



Please order as shown

Part Number		Output Mode
Code	Specifications	
ZJF49	K25	N(NPN)
	L25	

ZJF49—K25—N