



K Type



L Type



T Type



U Type



Y Type



J Type



F Type



R Type



■ Features

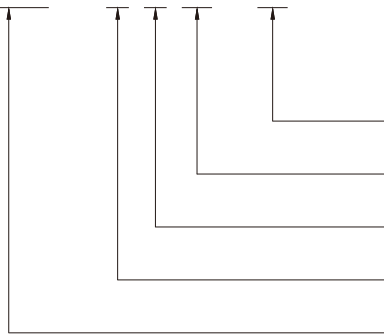
- The equipment has two independent outputs
- Cable lead-out: Standard configuration includes 2M flexible conductor
- Wide voltage range: 5~24VDC
- High-speed response: Response frequency 3kHz

■ Applications

- Industrial Automation
- PLC Control Systems

■ Model Encoding

MUS - 5 2 K - N



Circuit type (N: NPN, P: PNP)

Type (K, L, T, U, Y, J, F, R)

2-meter cable

5mm wide slot

Series name

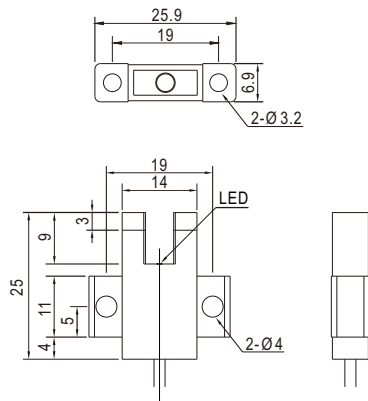


SPECIFICATION	
PERFORMANCE	
DETECTION DISTANCE	5mm (wide slot)
STANDARD TEST OBJECT	Opaque objects larger than 0.8*1.2mm
REPEATABILITY	Below 0.03mm
OUTPUT MODE	NPN or PNP open collector
SWITCH MODE	L.on (light-inducing action) / D.on (light-blocking action) can be switched
INDICATOR LIGHTS	The light turns off when an object is detected and turns on when no object is detected
RESPONSE FREQUENCY	3KHZ
LIGHT SOURCE	Infrared light
OPERATING VOLTAGE	5~24V DC
RESIDUAL VOLTAGE	Below 1.3V (when the load current is 100mA)
CONSUME CURRENT	No load $\leq 8\text{mA}$
PROTECTION CIRCUIT	Surge protection, reverse polarity protection
AMBIENT LIGHT	Illuminance of the illuminated surface: Incandescent lamp: below 1000 lux
AMBIENT TEMPERATURE	Operating temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$; Storage temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$, no freezing
AMBIENT HUMIDITY	Working environment: 5%~85%RH; Storage environment: 5%~95%RH, non-condensing
WITHSTAND VOLTAGE	AC, 1000V for 1 minute, all power connection terminals and housing
VIBRATION	Frequency 10Hz~2,000Hz, double amplitude 1.5mm (maximum acceleration 196m/s^2), 2 hours in each of the XYZ axes
INSULATION RESISTANCE	Between all power connection terminals and the enclosure: $20\text{M}\Omega$ or higher (based on DC250V)
PROTECTION LEVEL	IP50
MATERIAL	PC
QUALIFYING METHOD	2M4-core cable
NOTE	
1.All the performance data listed in the datasheet are the initial values tested under standard test conditions. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx	

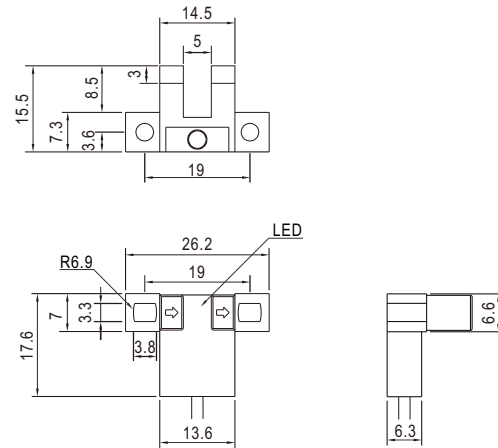
■ OUTLINE DIMENSIONS

- All dimensions in mm
- In case of no tolerance shown in outline dimension:
outline dimension $\leq 10\text{mm}$, tolerance should be $\pm 0.03\text{mm}$
outline dimension $> 11\text{mm}$ and $\leq 50\text{mm}$, tolerance should be $\pm 0.05\text{mm}$
outline dimension $> 50\text{mm}$, tolerance should be $\pm 0.15\text{mm}$

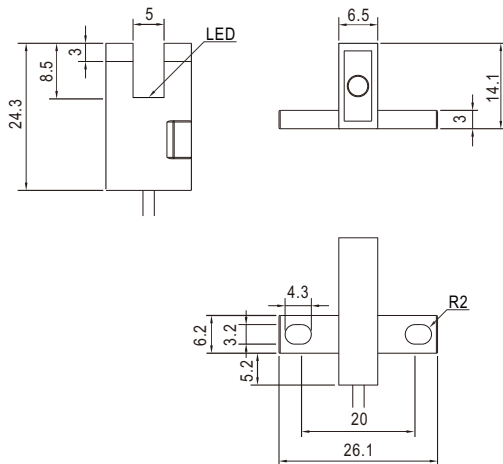
• K Type



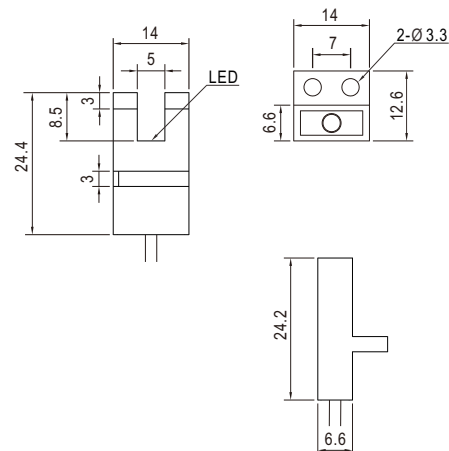
• L Type



• T Type

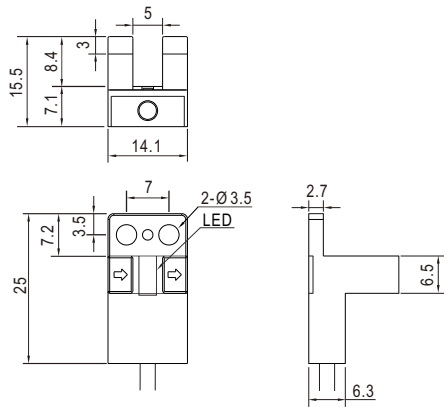


• U Type

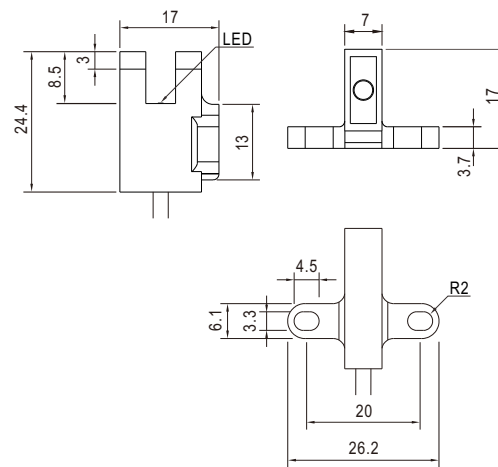


■ OUTLINE DIMENSIONS

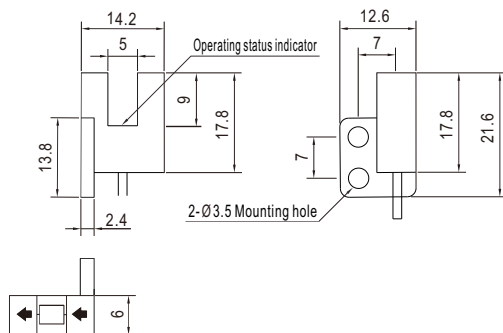
• Y Type



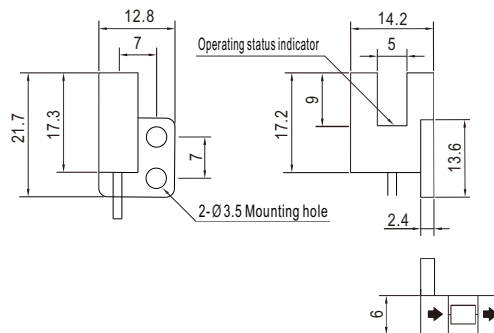
• J Type



• F Type

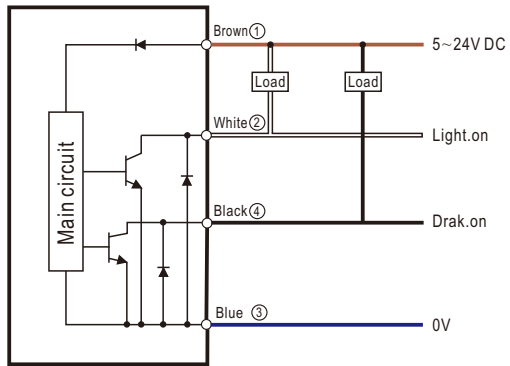


• R Type

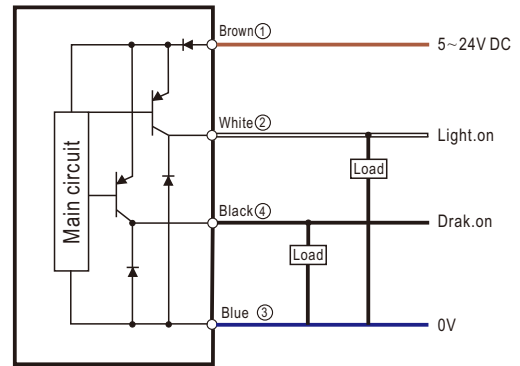


■ WIRING DIAGRAM AND PC BOARD LAYOUT

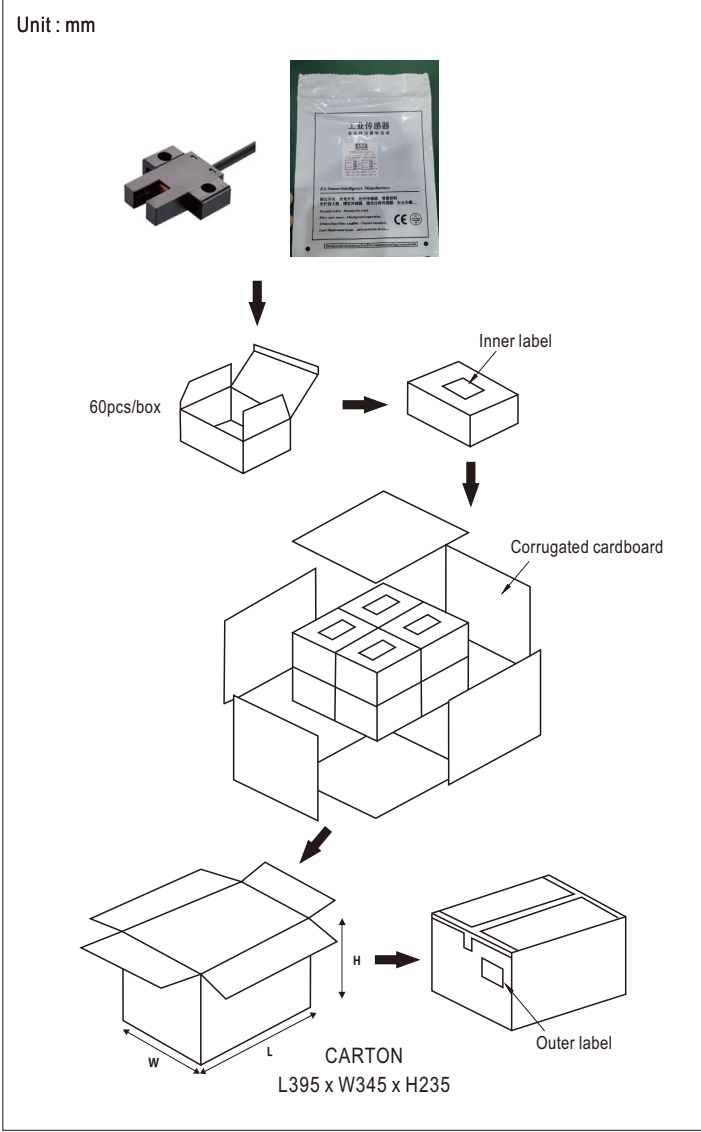
• NPN



• PNP



■ Packing

Standard Tube Packing	Per Box (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  60pcs/box Inner label Corrugated cardboard CARTON L395 x W345 x H235 Outer label	60	1.8Kg	240	7.25Kg