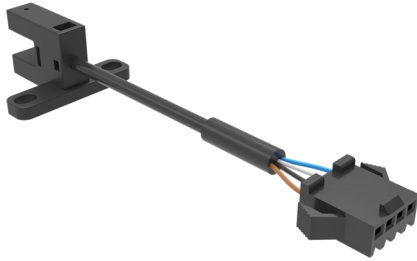


U shape photoelectric sensor PU05M series



Feature description

- The power supply voltage is 5...24VDC, and the voltage range is wide
- A variety of shapes, rich product categories
- The product has two modes: L/ON and D/ON
- Use flexible and bend-resistant conductors



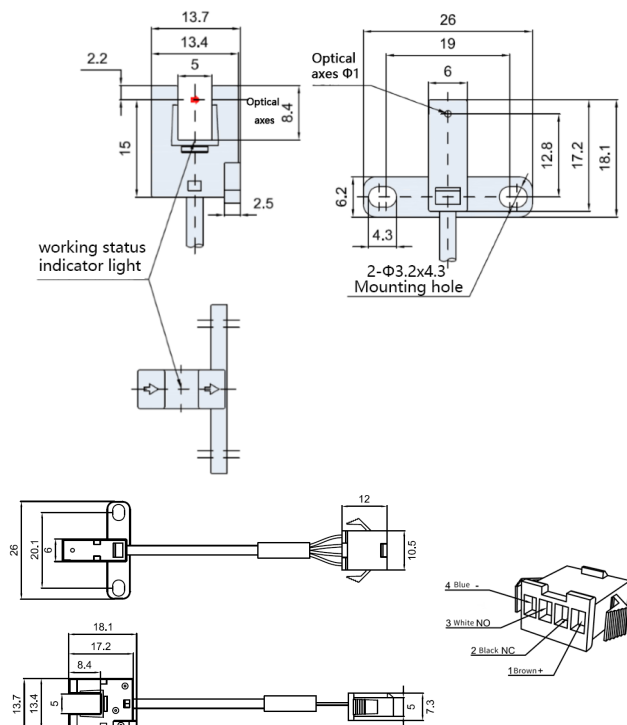
Model specification

NPN	PU05M-TGMR-T 1002	PNP	PU05M-TGPR-T 1002
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Specifications

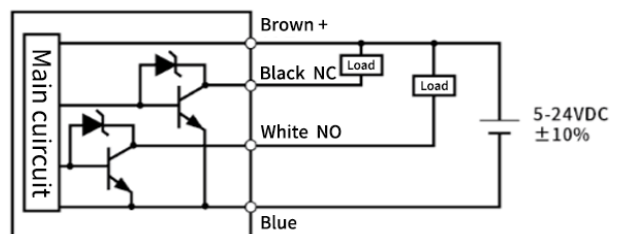
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp ≤1,000lux
Standard target	> 1.2*0.8mm	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude 1.5mm,
NO/NC Adjustment	NO/NC by specific wiring connection		2hrs each for X,Y,Z direction
Supply voltage	5...24 VDC (Ripple p-p: < 10%)	Protection degree	IP65
Load current	≤50mA	Housing material	PBT
Residual voltage	≤1V (When the load current is 50mA)	Connection	5cm Cable+ Connector
Consumption current	≤15mA	Weight	15g
Switching frequency	≥1KHZ (The maximum value is 3KHZ)		

Dimensions

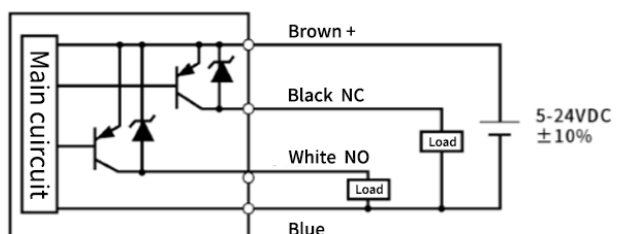


Wiring diagram

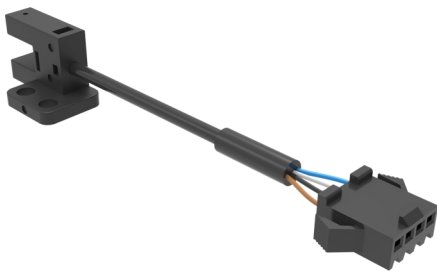
NPN



PNP



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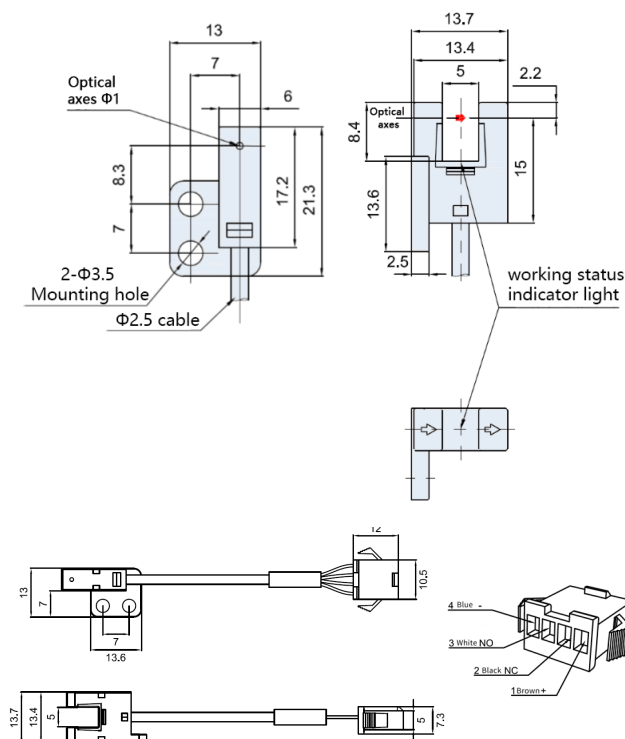
Model specification

NPN	PU05M-TGNR-F 1002	PNP	PU05M-TGPR-F 1002
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Specifications

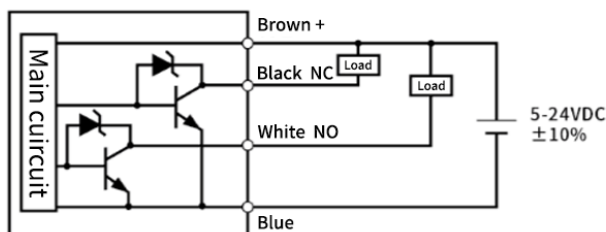
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp≤1,000lux
Standard target	> 1.2*0.8mm	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude1.5mm, 2hrs each for X,Y,Z direction
NO/NC Adjustment	NO/NC by specific wiring connection	Protection degree	IP65
Supply voltage	5...24 VDC (Ripple p-p: < 10%)	Housing material	PBT
Load current	≤50mA	Connection	5cm Cable+ Connector
Residual voltage	≤1V (When the load current is 50mA)	Weight	15g
Consumption current	≤15mA		
Switching frequency	≥1KHZ (The maximum value is 3KHZ)		

Dimensions

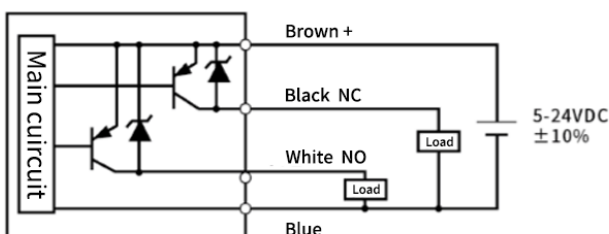


Wiring diagram

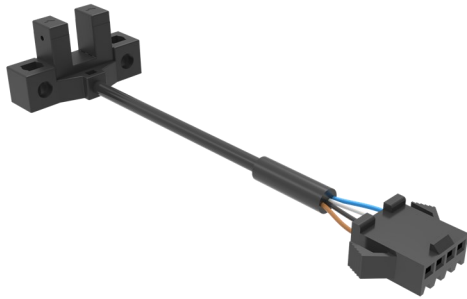
NPN



PNP



U shape photoelectric sensor PU05M series



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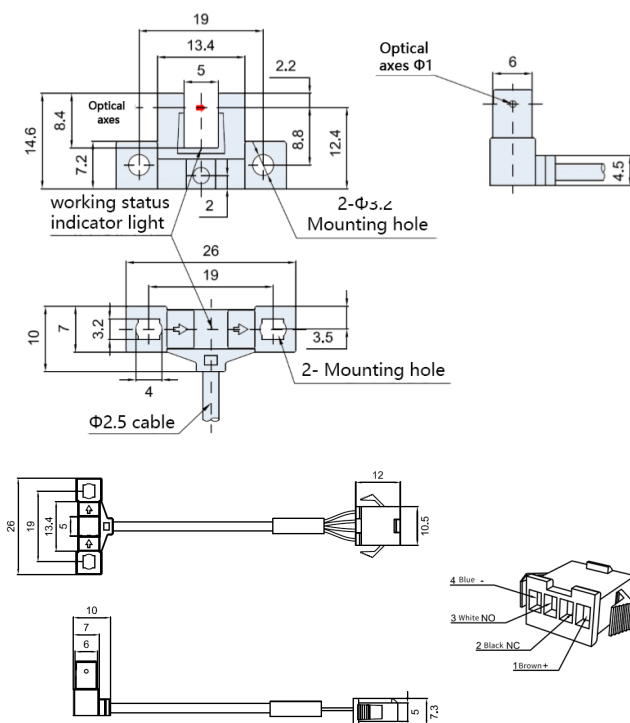
Model specification

NPN	PU05M-TGPR-L 1002	PNP	PU05M-TGPR-L 1002
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Specifications

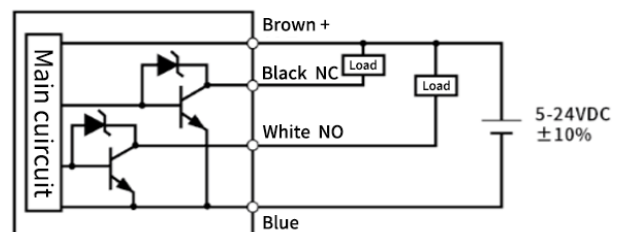
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp $\leq 1,000\text{lux}$
Standard target	$> 1.2 \times 0.8\text{mm}$	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	$-25^{\circ}\text{C} \dots 55^{\circ}\text{C}$
Hysteresis	$< 0.05\text{mm}$	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude 1.5mm, 2hrs each for X,Y,Z direction
NO/NC Adjustment	NO/NC by specific wiring connection	Protection degree	IP65
Supply voltage	5...24 VDC (Ripple p-p: $< 10\%$)	Housing material	PBT
Load current	$\leq 50\text{mA}$	Connection	5cm Cable+ Connector
Residual voltage	$\leq 1\text{V}$ (When the load current is 50mA)	Weight	15g
Consumption current	$\leq 15\text{mA}$		
Switching frequency	$\geq 1\text{KHZ}$ (The maximum value is 3KHZ)		

Dimensions

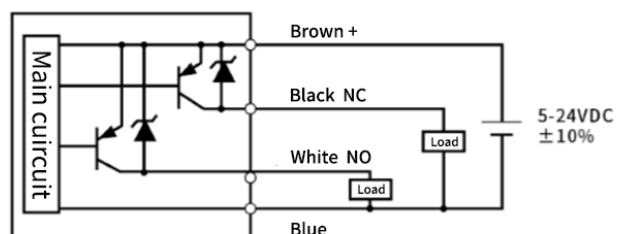


Wiring diagram

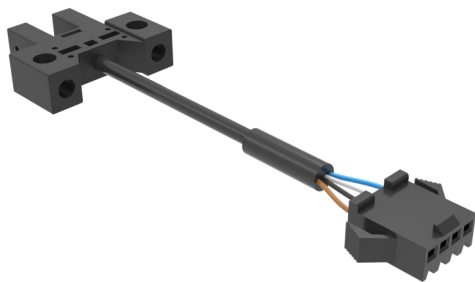
NPN



PNP



U shape photoelectric sensor PU05M series



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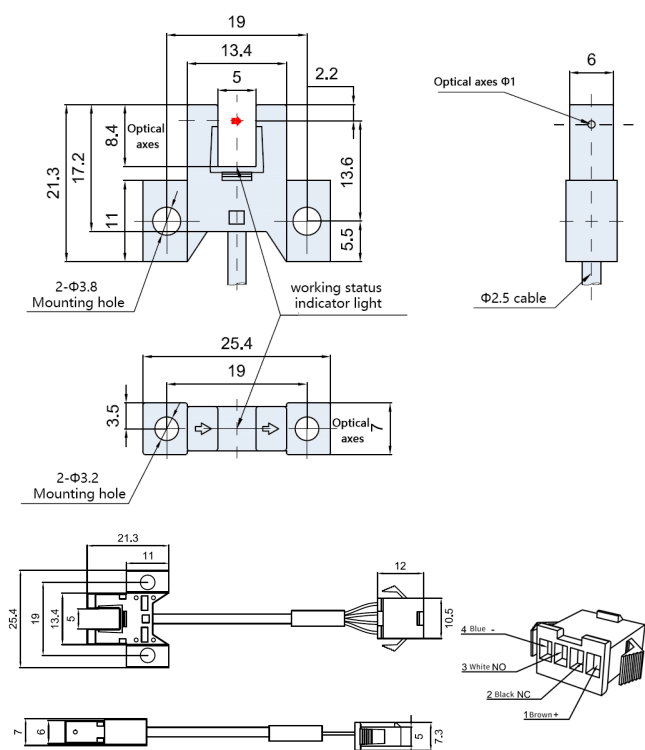
Model specification

NPN	PU05M-TGNR-K 1002	PNP	PU05M-TGPR-K 1002
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Specifications

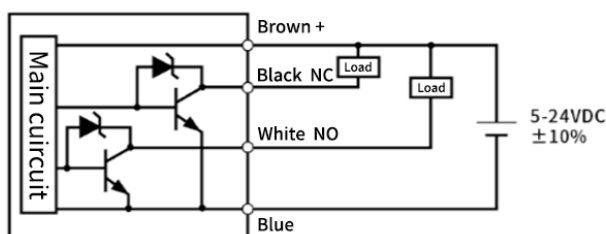
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp $\leq 1,000\text{lux}$
Standard target	$> 1.2 \times 0.8\text{mm}$	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	$-25^{\circ}\text{C} \dots 55^{\circ}\text{C}$
Hysteresis	$< 0.05\text{mm}$	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude 1.5mm, 2hrs each for X,Y,Z direction
NO/NC Adjustment	NO/NC by specific wiring connection	Protection degree	IP65
Supply voltage	5...24 VDC (Ripple p-p: $< 10\%$)	Housing material	PBT
Load current	$\leq 50\text{mA}$	Connection	5cm Cable+ Connector
Residual voltage	$\leq 1\text{V}$ (When the load current is 50mA)	Weight	15g
Consumption current	$\leq 15\text{mA}$		
Switching frequency	$\geq 1\text{KHZ}$ (The maximum value is 3KHZ)		

Dimensions

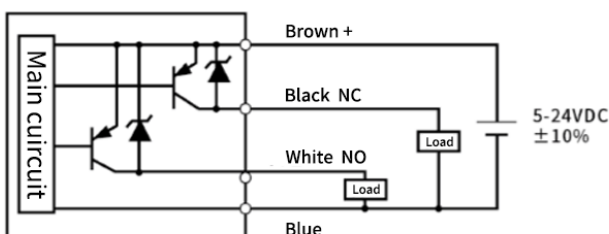


Wiring diagram

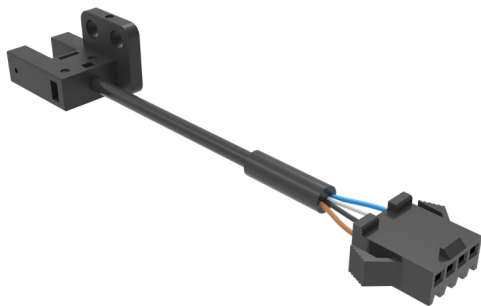
NPN



PNP



U shape photoelectric sensor PU05M series



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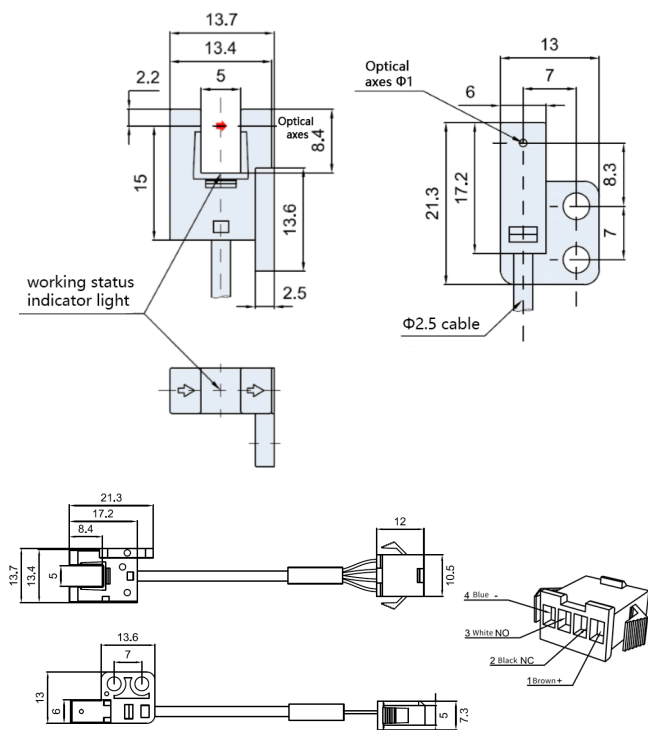
Model specification

NPN	PU05M-TGNR-R 1002	PNP	PU05M-TGPR-R 1002
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Specifications

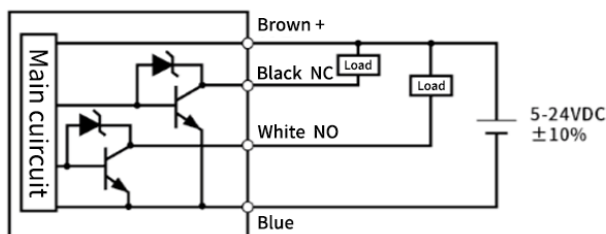
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp $\leq 1,000\text{lux}$
Standard target	$> 1.2 \times 0.8\text{mm}$	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	$-25^{\circ}\text{C} \dots 55^{\circ}\text{C}$
Hysteresis	$< 0.05\text{mm}$	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude 1.5mm, 2hrs each for X,Y,Z direction
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Load current	$\leq 50\text{mA}$	Connection	5cm Cable+ Connector
Residual voltage	$\leq 1\text{V}$ (When the load current is 50mA)	Weight	15g
Consumption current	$\leq 15\text{mA}$		
Switching frequency	$\geq 1\text{KHZ}$ (The maximum value is 3KHZ)		

Dimensions

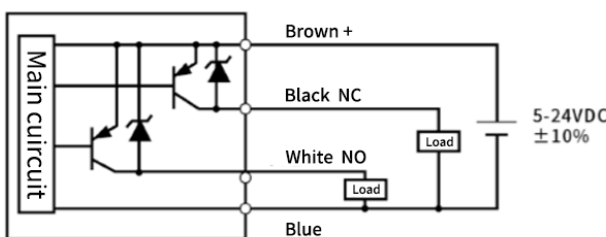


Wiring diagram

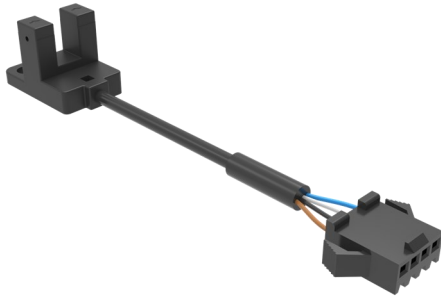
NPN



PNP



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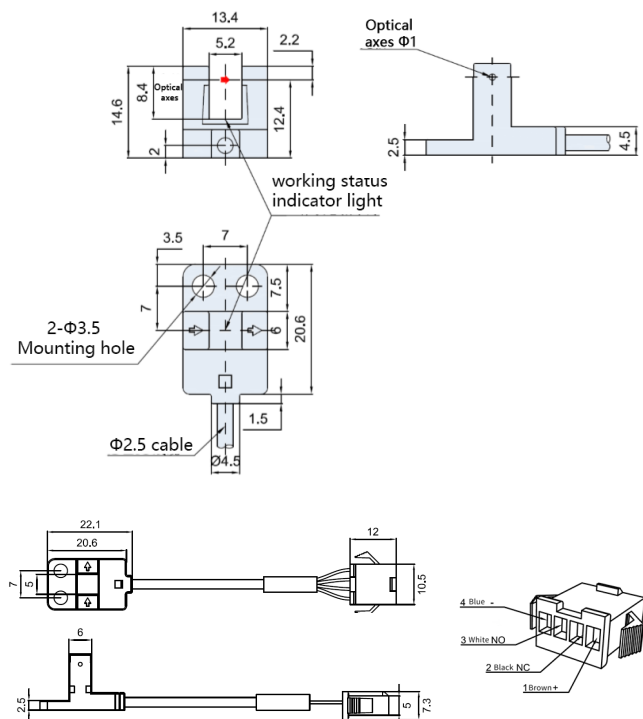
Model specification

NPN	PU05M-TGNR-Y 1002	PNP	PU05M-TGPR-Y 1002
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Specifications

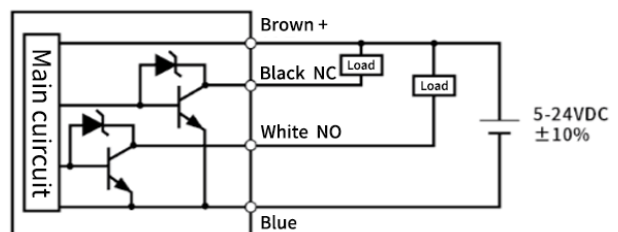
Detection method	Through beam	Circuit protection	Short circuit protection (NPN is equipped, PNP is not equipped)
Rated distance Sn	5mm	Anti ambient light	Fluorescent lamp≤1,000lux
Standard target	> 1.2*0.8mm	Output indication	Red: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)	Vibration resistant	10...2000Hz, Dual amplitude1.5mm,
NO/NC Adjustment	NO/NC by specific wiring connection		2hrs each for X,Y,Z direction
Supply voltage	5...24 VDC (Ripple p-p: < 10%)	Protection degree	IP65
Load current	≤50mA	Housing material	PBT
Residual voltage	≤1V (When the load current is 50mA)	Connection	5cm Cable+ Connector
Consumption current	≤15mA	Weight	15g
Switching frequency	≥1KHZ (The maximum value is 3KHZ)		

Dimensions



Wiring diagram

NPN



PNP

