

# U shape photoelectric sensor PU05S 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 wire with good flexibility



## Model specification

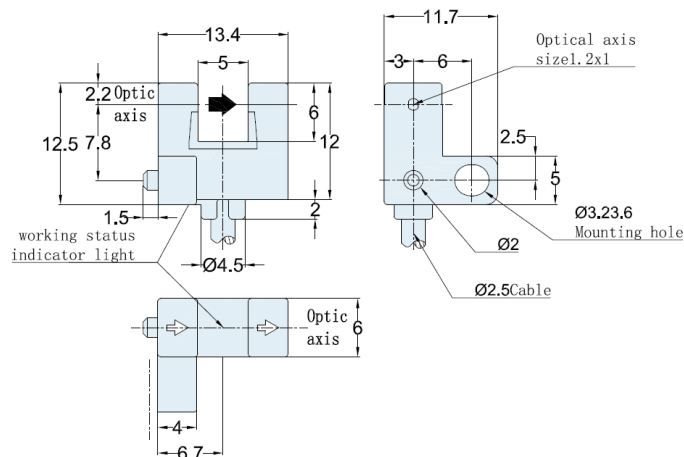
NPN	PU05S-TGNR-F	PNP	PU05S-TGPR-F
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## Specifications

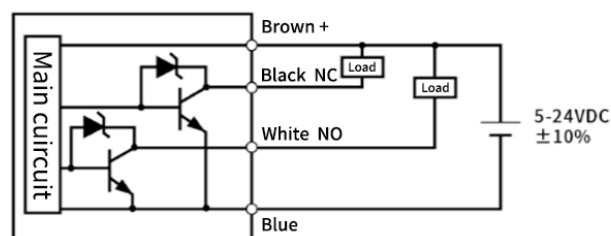
Detection method	Through beam	Circuit protection	Short circuit protection
Rated distance Sn	5mm		(power supply reverse polarity protection)
Standard target	> 1.2*0.8mm	Output indication	Yellow: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment 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, 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	1m Cable
Residual voltage	≤1V (When the load current is 50mA)	Weight	15g
Consumption current	≤15mA		
Switching frequency	≥1KHZ (The maximum value is 3KHZ)		
Anti ambient light	Fluorescent lamp ≤1,000lux		

## Dimensions

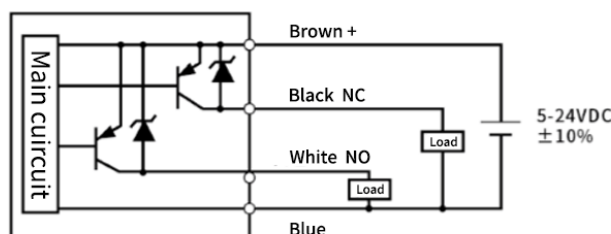
## Wiring diagram



### NPN



### PNP



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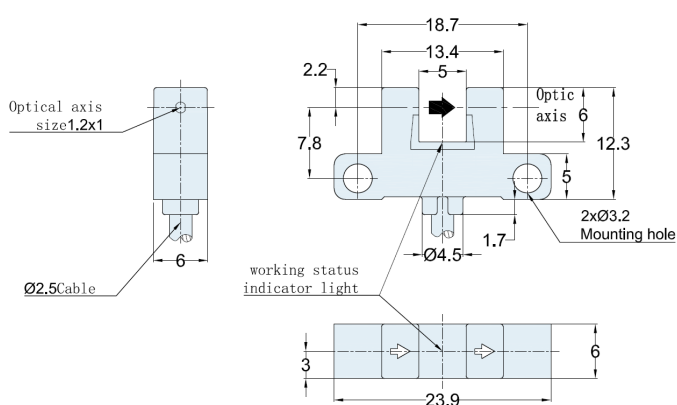
## Model specification

NPN	PU05S-TGNR-K	PNP	PU05S-TGPR-K
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## Specifications

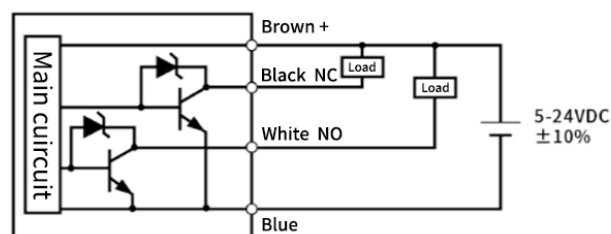
Detection method	Through beam	Circuit protection	Short circuit protection
Rated distance Sn	5mm		(power supply reverse polarity protection)
Standard target	> 1.2*0.8mm	Output indication	Yellow: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment humidity	When working: 5...85%RH (No condensation); when storing: 5...95%RH (No condensation)
Output type	NPN/PNP (Depends on part number)		
NO/NC Adjustment	NO/NC by specific wiring connection	Vibration resistant	10...2000Hz, Dual amplitude 1.5mm,
Supply voltage	5...24 VDC (Ripple p-p: < 10%)		2hrs each for X,Y,Z direction
Load current	≤ 50mA	Protection degree	IP65
Residual voltage	≤ 1V (When the load current is 50mA)	Housing material	PBT
Consumption current	≤ 15mA	Connection	1m Cable
Switching frequency	≥ 1KHZ (The maximum value is 3KHZ)	Weight	15g
Anti ambient light	Fluorescent lamp ≤ 1,000lux		

## Dimensions

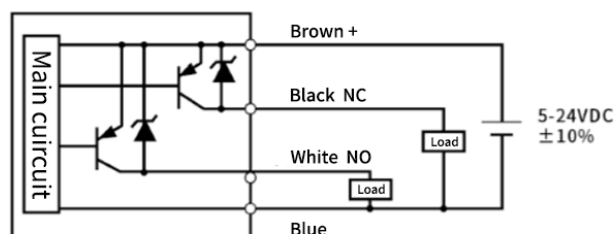


## Wiring diagram

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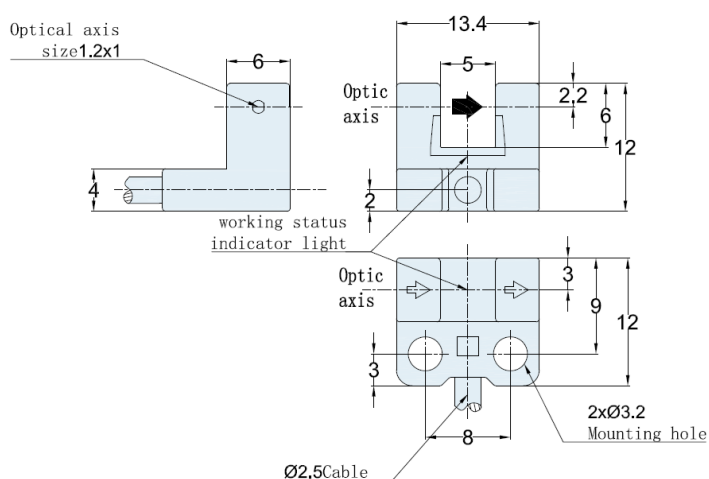
## Model specification

NPN	PU05S-TGMR-L	PNP	PU05S-TGPR-L
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## Specifications

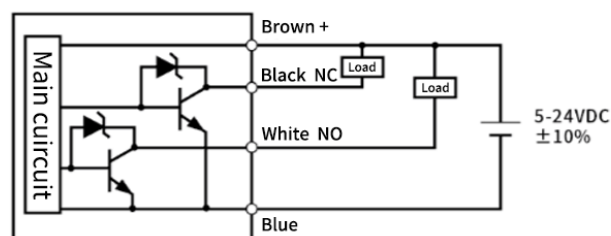
Detection method	Through beam	Circuit protection	Short circuit protection
Rated distance Sn	5mm		(power supply reverse polarity protection)
Standard target	> 1.2*0.8mm	Output indication	Yellow: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25℃...55℃
Hysteresis	< 0.05mm	Environment humidity	When working: 5...85%RH (No condensation);
Output type	NPN/PNP (Depends on part number)		when storing: 5...95%RH (No condensation)
NO/NC Adjustment	NO/NC by specific wiring connection	Vibration resistant	10...2000Hz, Dual amplitude1.5mm,
Supply voltage	5...24 VDC (Ripple p-p: < 10%)		2hrs each for X,Y,Z direction
Load current	≤50mA	Protection degree	IP65
Residual voltage	≤1V (When the load current is 50mA)	Housing material	PBT
Consumption current	≤15mA	Connection	1m Cable
Switching frequency	≥1KHZ (The maximum value is 3KHZ)	Weight	15g
Anti ambient light	Fluorescent lamp≤1,000lux		

## Dimensions

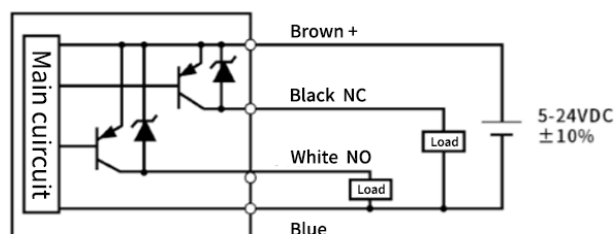


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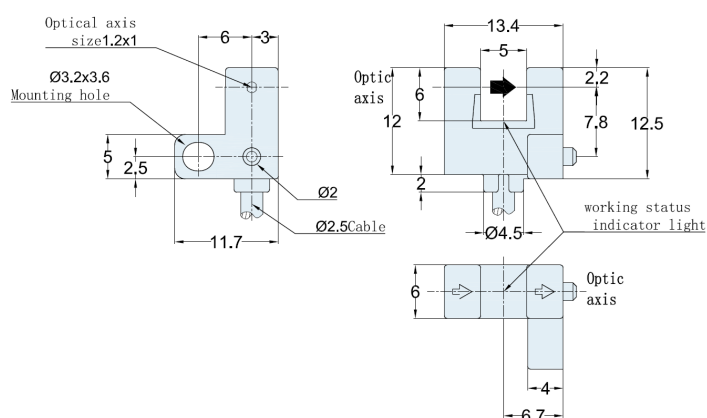
## Model specification

NPN	PU05S-TGNR-R	PNP	PU05S-TGPR-R
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## Specifications

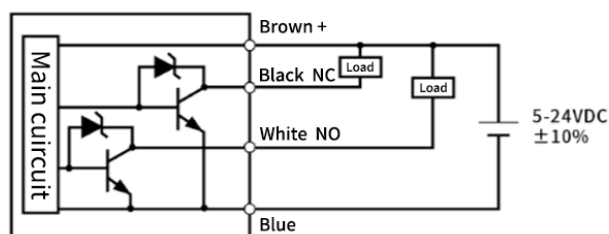
Detection method	Through beam	Circuit protection	Short circuit protection
Rated distance Sn	5mm		(power supply reverse polarity protection)
Standard target	> 1.2*0.8mm	Output indication	Yellow: output indication
Light source	Infrared LED (855nm)	Ambient temperature	-25°C...55°C
Hysteresis	< 0.05mm	Environment 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, 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	1m Cable
Residual voltage	≤1V (When the load current is 50mA)	Weight	15g
Consumption current	≤15mA		
Switching frequency	≥1KHZ (The maximum value is 3KHZ)		
Anti ambient light	Fluorescent lamp ≤1,000lux		

## Dimensions

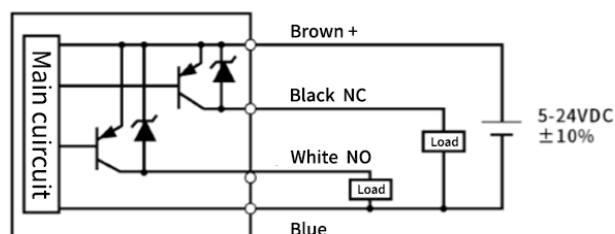


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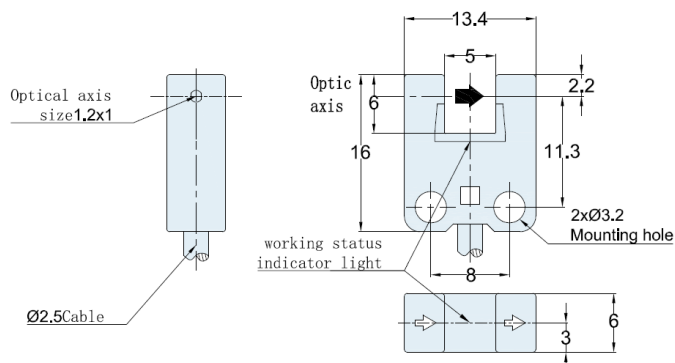
## Model specification

NPN	PU05S-TGMR-U	PNP	PU05S-TGPR-U
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## Specifications

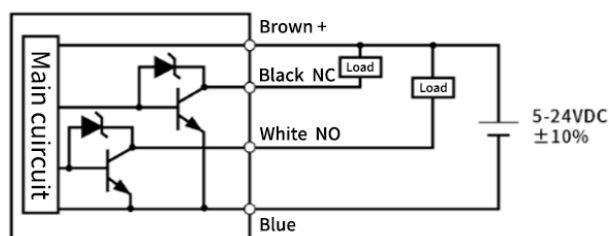
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Anti ambient light	Fluorescent lamp≤1,000lux		

## Dimensions



## Wiring diagram

### NPN



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