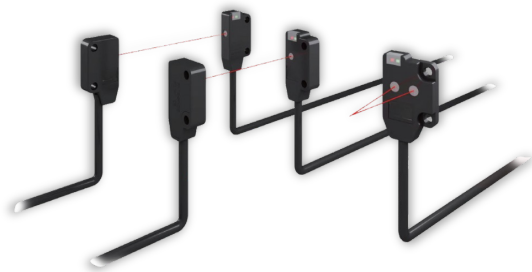


Ultra-Thin Compact Photoelectric Sensor

[UT Series]

- High stability and unique light interference avoidance algorithm
- Visible/Non-visible red LED light source selections available
- < 3 ms response time



UT Series Variant

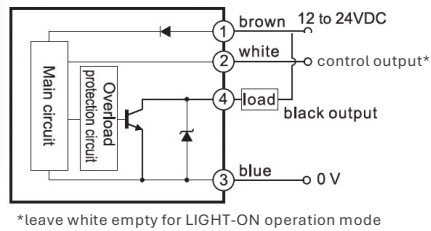
Detection method	Emitting direction	Configuration	Detecting distance	Model	
				NPN	PNP
Thrubeam	Front detection		500 mm	UT-T50N	UT-T50P
	Side detection		500 mm	UT-TS50N	UT-TS50P

Specifications

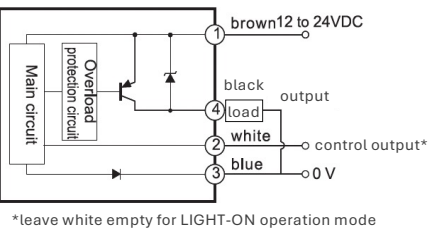
Type		Thrubeam	
Model	NPN	UT-T50N	UT-TS50N
	PNP	UT-T50P	UT-TS50P
Emitting direction		Front	Side
Detecting distance		500 mm	
Sensing object		> 1 mm dia. opaque	
Hysteresis (% of detecting distance)		15% max.	
Response time		500 μs	
Light source		Red LED	
LED indicator		Output: Red LED, Stable operation: Green LED	
Protection circuit		Reversed polarity, overcurrent protection, surge absorber	
Power supply		12 to 24 VDC including Ripple ±10% (P-P)	
Current consumption		25 mA or less	
Enclosure rating		IP66	
Ambient light		Incandescent lamp: 3,000 lux max., Sunlight: 10,000 lux max.	
Ambient temperature		-25 to +55°C (No freezing)	
Relative humidity		35 to 85% RH (No condensation)	
Vibration resistance		10 to 500 Hz, 3 mm double amplitude in the X, Y and Z directions, for 2 hours respectively	
Shock resistance		500 m/s ² 6 times in the X and Y direction	
Material		ABS	

Input / Output Circuits

UT-T series
NPN



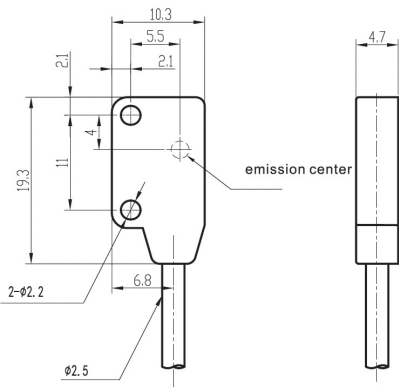
PNP



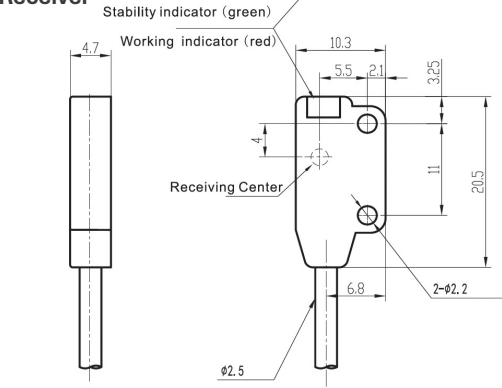
Dimensions

UT-T50N

Transmitter

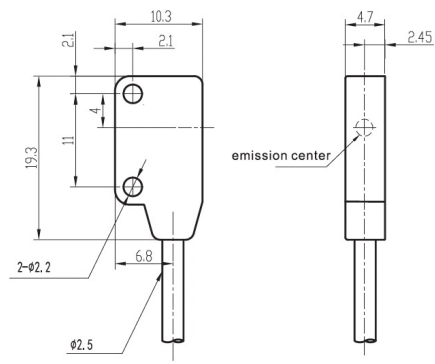


Receiver

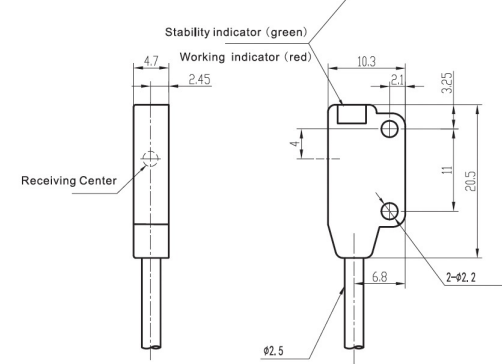


UT-TS50N

Transmitter



Receiver



Photoelectric
Sensor

Overview

Code Reader

Handheld
Reader

Vision Sensor

Vision System

Fiberoptic
Sensor

Photoelectric
Sensor

RGB Colour
Sensor

Proximity
Sensor

Ultrasonic
Sensor

Safety Curtain

Ionizer