

NAIS

ULTRA-COMPACT PHOTOELECTRIC SENSORS

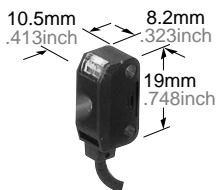
UZH5/6 Series

THE SOLUTION TO YOUR REQUIREMENTS!



Miniaturization by Using Single Chip Optical IC!

The beam-receiving photodiode and the A/D conversion circuit have been fabricated on a single chip optical IC (full custom). Hence, in spite of its miniature size, it has a performance and reliability which is equal to or better than the conventional product.



Long Sensing Range Realized

The UZH5/6 series achieves long distance sensing [thru-beam type: 2m 6.562ft, retroreflective type: 200mm 7.874inch (when using the attached reflector), diffuse reflective type: 160mm 6.300inch], despite its miniature size. Hence, it is usable even on a wide conveyor.

Waterproof IP67

The sensor can be hosed down because of its IP67 construction.

Clear Beam Spot by Using a Red LED Dot Light Source.

The emission area of a dot light source is smaller than that of a conventional LED flat light source, and it is possible to design a high power, narrow beam. Since a red LED dot light source is used, the red beam spot is clear even at a far place, so that alignment and confirmation of sensing position is easy. Further, since the thru-beam type, too, incorporates a visible narrow beam, it can also reliably detect small parts, such as, chip components, lead frames, etc.

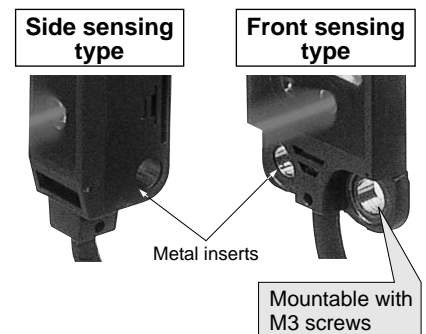
Incorporates a Sensitivity Adjuster Even in this Size.

The sensor incorporates a sensitivity adjuster in spite of its miniature size. It is convenient when you need fine adjustment. Further, the receiver of the thru-beam, side sensing type sensor incorporates an operation mode switch which can change the output operation.



Mounting Section Reinforced

It can be tightened with M3 screws. Moreover, metal inserts have been provided in the mounting holes so that the product is not damaged even in case of excess tightening.



Bright Two-color Indicator

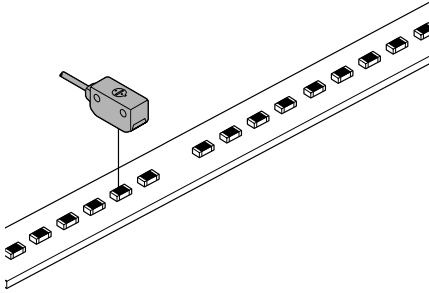
Bright two-color indicator has been incorporated in all types.

Slit Mask is Available

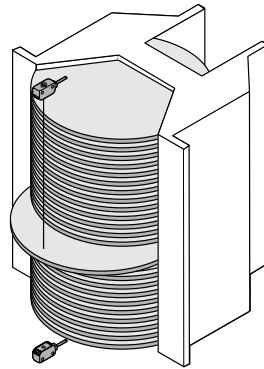
$\phi 0.5\text{mm}$ $\phi .020\text{inch}$ round slit mask and $0.5 \times 3\text{mm}$ $.020\text{inch} \times .118\text{inch}$ rectangular slit mask are available for both side sensing type and front sensing type.

APPLICATIONS

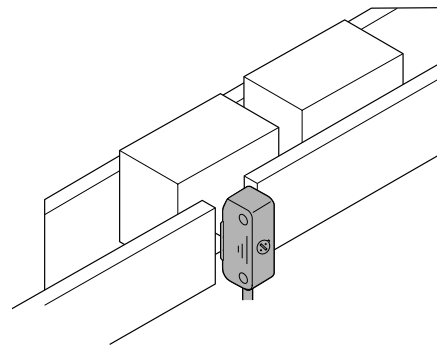
Detecting chip components



Checking protrusion of water



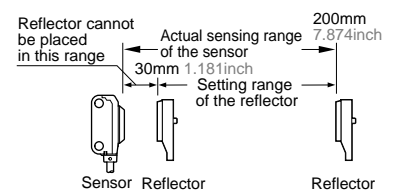
Sensing objects from an opening



ORDER GUIDE

Type	Appearance	Sensing range	Model No.	Output	Output operation
Thru-beam	Front sensing	1m 3.281ft	UZZ113	NPN open-collector transistor	Light-ON
			UZZ115	PNP open-collector transistor	
			UZZ120	NPN open-collector transistor	Dark-ON
			UZZ125	PNP open-collector transistor	
Thru-beam	Side sensing	2m 6.562ft	UZZ160	NPN open-collector transistor	Switchable either Light-ON or Dark-ON
			UZZ165	PNP open-collector transistor	
Retroreflective	Side sensing	30 to 200mm 1.181 to 7.874inch (Note 1)	UZZ141	NPN open-collector transistor	Light-ON
			UZZ145	PNP open-collector transistor	
			UZZ142	NPN open-collector transistor	Dark-ON
			UZZ1425	PNP open-collector transistor	
Diffuse reflective	Side sensing	5 to 160mm .197 to 6.300inch (Note 2)	UZZ131	NPN open-collector transistor	Light-ON
			UZZ135	PNP open-collector transistor	
			UZZ132	NPN open-collector transistor	Dark-ON
			UZZ1325	PNP open-collector transistor	
Convergent reflective	Diffused light type Front sensing	2 to 25mm .078 to .984inch (Convergent point: 10mm .393inch)	UZZ151	NPN open-collector transistor	Light-ON
			UZZ155	PNP open-collector transistor	
			UZZ152	NPN open-collector transistor	Dark-ON
			UZZ1525	PNP open-collector transistor	
	Small spot light type Side sensing	6 to 14mm .236 to .551inch (Convergent point: 10mm .393inch)	UZZ171	NPN open-collector transistor	Light-ON
			UZZ175	PNP open-collector transistor	
			UZZ172	NPN open-collector transistor	Dark-ON
			UZZ1725	PNP open-collector transistor	
Narrow-view reflective Long distance spot Side sensing	45 to 115mm 1.772 to 4.528inch	UZZ181	NPN open-collector transistor	Light-ON	
		UZZ185	PNP open-collector transistor		
		UZZ182	NPN open-collector transistor	Dark-ON	
		UZZ1825	PNP open-collector transistor		

- Notes: 1) The sensing range of the retroreflective type sensor is specified for the **UZZ113** reflector. Further, the sensing range is the possible setting range for the reflector. The sensor can detect an object less than 30mm 1.181inch away. However, if the reflector is set 100mm or less away, the sensing object should be opaque.
- 2) In case of using this product at a sensing range of 50mm 1.969inch or less, take care that the sensitivity adjustment range becomes extremely narrow.



Package without reflector

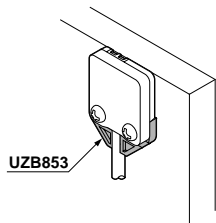
UZZ141 is also available without the reflector **UZZ113** when ordering this type, add suffix '-Y' at the end of the model No.

Ex.: **UZZ141Y** is **UZZ141** without the reflector.

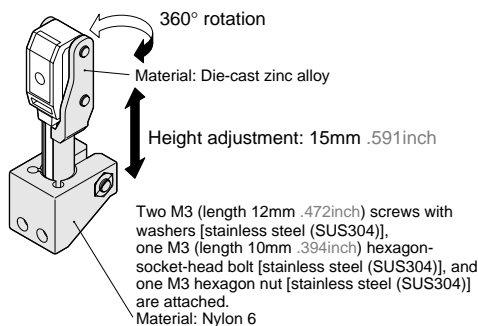
OPTIONS

Designation	Model No.	Description
Round slit mask (For thru-beam type sensor only)	For front sensing type	UZZ855 (Slit size $\phi 0.5\text{mm}$ $\phi .020\text{inch}$) Slit on one side • Sensing range: 200mm 7.874inch • Min. sensing object: $\phi 2.6\text{mm}$ $\phi .102\text{inch}$
		Slit on both side • Sensing range: 40mm 1.575inch • Min. sensing object: $\phi 0.5\text{mm}$ $\phi .020\text{inch}$
	For side sensing type	UZZ865 (Slit size $\phi 0.5\text{mm}$ $\phi .020\text{inch}$) Slit on one side • Sensing range: 350mm 13.780inch • Min. sensing object: $\phi 3\text{mm}$ $\phi .118\text{inch}$
		Slit on both side • Sensing range: 70mm 2.756inch • Min. sensing object: $\phi 0.5\text{mm}$ $\phi .020\text{inch}$
Rectangular slit mask (For thru-beam type sensor only)	For front sensing type	UZZ856 (Slit size $0.5 \times 3\text{mm}$ $.020 \times .118\text{inch}$) Slit on one side • Sensing range: 600mm 23.622inch • Min. sensing object: $\phi 2.6\text{mm}$ $\phi .102\text{inch}$
		Slit on both side • Sensing range: 300mm 11.811inch • Min. sensing object: $0.5 \times 3\text{mm}$ $.020 \times .118\text{inch}$
	For side sensing type	UZZ866 (Slit size $\phi 0.5\text{mm}$ $\phi .020\text{inch}$) Slit on one side • Sensing range: 800mm 13.780inch • Min. sensing object: $\phi 3\text{mm}$ $\phi .118\text{inch}$
		Slit on both side • Sensing range: 400mm 15.748inch • Min. sensing object: $0.5 \times 3\text{mm}$ $.020 \times .118\text{inch}$
Reflector (For retro-reflective type sensor only)	UZZ110	• Sensing range: 50 to 400mm 1.969 to 15.748inch • Min. sensing object $\phi 30\text{mm}$ $\phi 1.181\text{inch}$
Reflector mounting bracket	UZZ1100	Protective mounting bracket for UZZ110 Protects the reflector from damage and maintains alignment.
Reflective tape (For retro-reflective type sensor only)	UZZ101	• Ambient temperature: -25 to $+50^\circ\text{C}$ -13 to 122°F • Ambient humidity: 35 to 85% RH Notes I) Keep the tape free from stress. If it is pressed too much, its capability may deteriorate. ii) Do not cut the tape. It will deteriorate the sensing performance
	UZZ102	• Sensing range: 70 to 200mm 2.756 to 7.874inch • Sensing range: 60 to 280mm 2.362 to 11.024inch
Sensor mounting bracket	UZZ851	Back angled mounting bracket for front sensing type (The thru-beam type sensor needs two brackets)
	UZZ861	Foot angled mounting bracket for side sensing type (The thru-beam type sensor needs two brackets)
	UZZ852	L-shaped mounting bracket for front sensing type (The thru-beam type sensor needs two brackets)
	UZZ861	Back angled mounting bracket for side sensing type (The thru-beam type sensor needs two brackets)
Universal sensor mounting bracket [For UZZ610(5) only]	UZZ863	It can adjust the height and the angle of the sensor. (Two brackets are needed.)
Mounting spacer (For front sensing type only)	UZZ853 (1 set: 10 Nos.)	It is used when mounting the front sensing type from the rear side. (The thru-beam type sensor needs two brackets)

Mounting spacer UZZ853



Universal sensor mounting bracket UZZ863

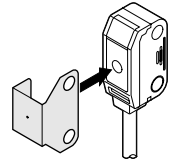
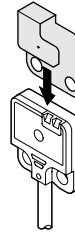


Round slit mask

Fitted on the front face of the sensor with one-touch.

UZZ855

UZZ865

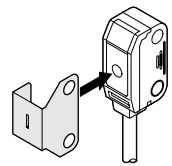
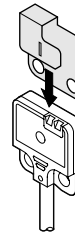


Rectangular slit mask

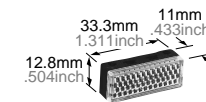
Fitted on the front face of the sensor with one-touch.

UZZ856

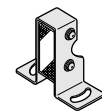
UZZ866



Reflector UZZ110



Reflector mounting bracket UZZ1100

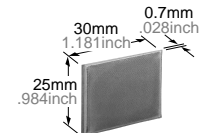


Two M3 (length 12mm .472inch) screws with washers are attached.

Reflective tape UZZ101

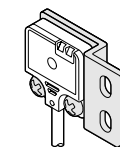


UZZ102



Sensor mounting bracket

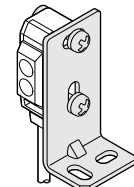
UZZ851



Material: Stainless steel (SUS304)

Two M3 (length 5mm .197inch) pan head screws [stainless steel (SUS304)] are attached.

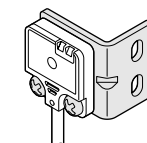
UZZ861



Material: Stainless steel (SUS304)

Two M3 (length 14mm .551inch) screws with washers [stainless steel (SUS304)] are attached.

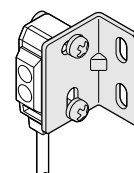
UZZ852



Material: Stainless steel (SUS304)

Two M3 (length 5mm .197inch) pan head screws [stainless steel (SUS304)] are attached.

UZZ862



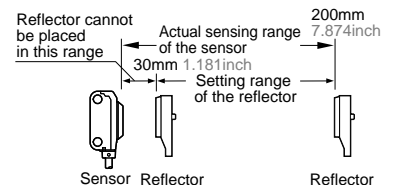
Material: Stainless steel (SUS304)

Two M3 (length 14mm .551inch) screws with washers [stainless steel (SUS304)] are attached.

SPECIFICATIONS

Item	Type		Thru-beam		Retroreflective	Diffuse reflective	Convergent reflective		Narrow-view reflective
			Front sensing	Side sensing			Diffused light type	Small spot light type	
	Model No.	Light-ON	UZB501(5)	UZB610(5)	UZB641(5)	UZB631(5)	UZB561(5)	UZB671(5)	UZB681(5)
Dark-ON	UZB502(5)	UZB642(5)	UZB632(5)		UZB562(5)	UZB672(5)	UZB682(5)		
Sensing range			1m 3.281ft	2m 6.562ft	30 to 200mm 1.181 to 7.874inch (Note 2)	5 to 160mm .197 to 6.300inch (Note 3) (with 200 x 200mm 7.874 x 7.874inch white non-glossy paper)	2 to 25mm .079 to .984inch (Conv. point: 10mm .394inch) (with 50 x 50mm 1.969 x 1.969inch white non-glossy paper)	6 to 14mm .236 to .551inch (Conv. point: 10mm .394inch) (with 50 x 50mm 1.969 x 1.969inch white non-glossy paper, spot diameter ϕ 1mm ϕ .039inch at setting distance 10mm .394inch)	45 to 115mm 1.772 to 4.528inch (with 100 x 100mm 3.937 x 3.937inch white non-glossy paper, spot diameter ϕ 5mm ϕ .197inch at setting distance 80mm 3.150inch)
Sensing object			Min. ϕ 2.6mm ϕ .102inch opaque object (Setting distance between emitter and receiver : 1m 3.281ft)	Min. ϕ 3mm ϕ .118inch opaque object (Setting distance between emitter and receiver : 2m 6.562ft)	ϕ 15mm ϕ .591inch or more opaque or translucent object (Note 2)	Opaque, translucent or transparent object	Min. ϕ 0.1mm ϕ .004inch copper wire (Setting distance: 10mm .394inch)	Min. ϕ 0.1mm ϕ .004inch copper wire (Setting distance: 10mm .394inch)	Opaque, translucent or transparent object (Min. ϕ 1mm ϕ .039inch copper wire at setting distance 80mm 3.150inch)
Hysteresis	—								
Repeatability (Perpendicular to sensing axis)	0.05mm .002inch or less		0.5mm .020inch or less		0.3mm .012inch or less	0.1mm .004inch or less (Setting distance: 10mm .394inch)	0.05mm .002inch or less (Setting distance: 10mm .394inch)	0.3mm .012inch or less	
Supply voltage	12 to 24V DC \pm 10% Ripple P-P : 10% or less								
Current consumption	Emitter : 10mA or less, Receiver : 15mA or less			20mA or less					
Output	(NPN output type) NPN open-collector transistor • Maximum sink current : 50mA • Applied voltage : 30V DC or less (between output and 0V) • Residual voltage : 1V or less (at 50mA sink current) 0.4V or less (at 16mA sink current)					(PNP output type) PNP open-collector transistor • Maximum source current : 50mA • Applied voltage : 30V DC or less (between output and + V) • Residual voltage : 1V or less (at 50mA source current) 0.4V or less (at 16mA source current)			
Utilization category	DC-12 or DC-13								
Short-circuit protection	Incorporated								
Response time	0.5ms or less								
Operation indicator	Orange LED (lights up when output is ON) (thru-beam type: located on the receiver)								
Stability indicator	Green LED (lights up under stable light received condition or stable dark condition), located on the receiver			Green LED (lights up under stable light received condition or stable dark condition)					
Sensitivity adjuster	—	Continuously variable adjuster, located on the emitter		Continuously variable adjuster		—	Continuously variable adjuster		
Operation mode switch	—	Located on the receiver		—		—			
Environmental resistance	Pollution degree	3 (Industrial environment)							
	Protection	IP67 (IEC)							
	Ambient temperature	-25 to + 55°C -13 to + 131°F (No dew condensation or icing allowed), Storage: -30 to + 70°C - 22 to + 158°F							
	Ambient humidity	35 to 85%RH, Storage : 35 to 85%RH							
	Ambient Illuminance	Sun light : 10,000 lux at the light-receiving face, Incandescent : 3,000 lux at the light-receiving face							
	EMC	Emission: EN50081-2, Immunity: EN50082-2							
	Voltage withstandability	1,000V AC for one min. between all supply terminals connected together and enclosure							
	Insulation resistance	20M Ω or more with 250V DC megger between all supply terminals connected together and enclosure							
Vibration resistance	10 to 500Hz frequency, 3mm .118inch amplitude (20G max.) in X, Y and Z directions for two hours each.								
Shock resistance	500m/s ² acceleration (50G approx.) in X, Y and Z directions for three times each.								
Emitting element	Red LED (modulated)								
Material	Enclosure : Polyethylene terephthalate, Lens : Polyallylate								
Cable	0.1mm ² 3-cores (thru-beam type sensor emitter: 2-core) cabtyre cable, 2m 6.562ft long								
Cable extension	Extension up to total 50m 164.04ft is possible with 0.3mm ² , or more, cable (thru-beam type: both emitter and receiver)								
Weight	Emitter: 20g .071oz approx. Receiver: 20g .071oz approx.			20g .071oz approx.					
Accessories	—	Adjusting screwdriver: 1 No.		UZZ113 (Reflector): 1 No. Adjusting screwdriver: 1 No.	Adjusting screwdriver: 1 No.		—	Adjusting screwdriver: 1 No.	

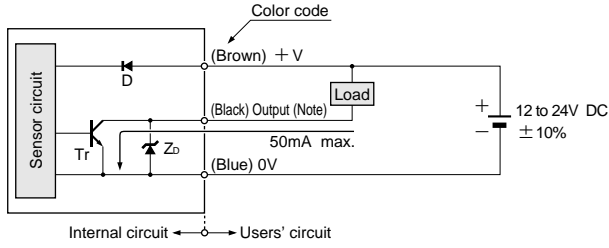
- Notes: 1) Either Light-ON or Dark-ON can be selected by the operation mode switch (located on the receiver).
 2) The sensing range and the sensing object of the retroreflective type sensor is specified for the UZZ113 reflector. Further, the sensing range is the possible setting range for the reflector. The sensor can detect an object less than 30mm 1.181inch away. However, if the reflector is set 100mm 3.937inch or less away, the sensing object should be opaque.
 3) In case of using this product at a sensing range of 50mm 1.969inch or less, take care that the sensitivity adjustment range becomes extremely narrow.



I/O CIRCUIT AND WIRING DIAGRAMS

NPN output type

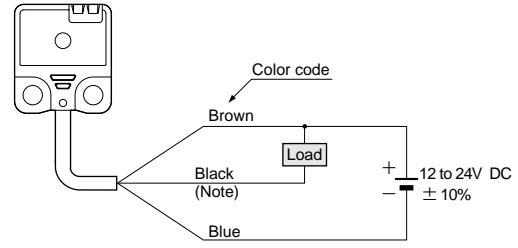
I/O circuit diagram



Note: The thru-beam type sensor emitter does not incorporate the output.

Symbol...D : Reverse supply polarity protection diode
 Zd: Surge absorption zener diode
 Tr : NPN output transistor

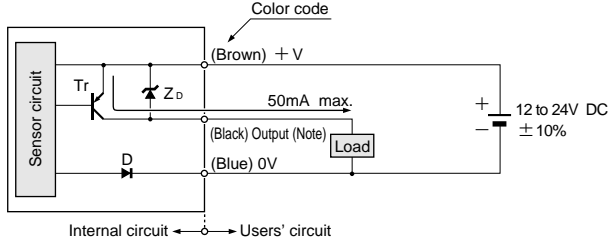
Wiring diagram



Note: The thru-beam type sensor emitter does not incorporate the black wire.

PNP output type

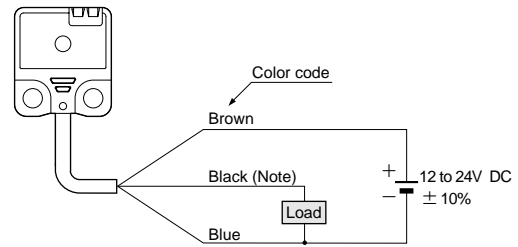
I/O circuit diagram



Note: The thru-beam type sensor emitter does not incorporate the output.

Symbol...D : Reverse supply polarity protection diode
 Zd: Surge absorption zener diode
 Tr : PNP output transistor

Wiring diagram

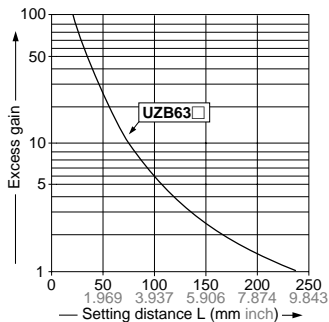
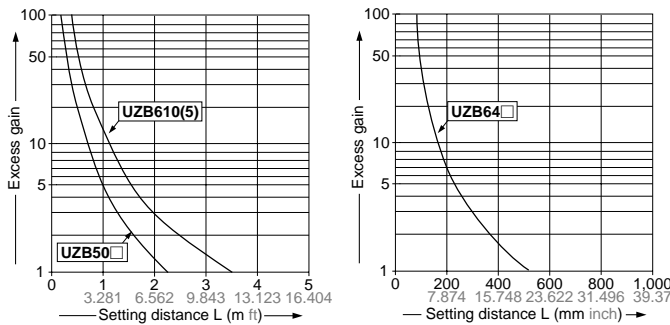


Note: The thru-beam type sensor emitter does not incorporate the black wire.

SENSING CHARACTERISTICS (TYPICAL)

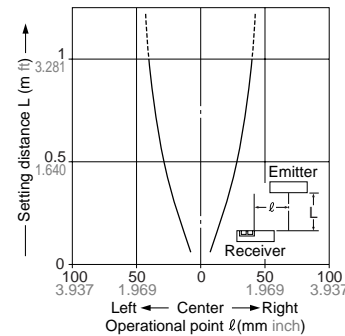
UZB50 □ UZB610(5)
 UZB64 □ UZB63 □

Correlation between setting distance and excess gain

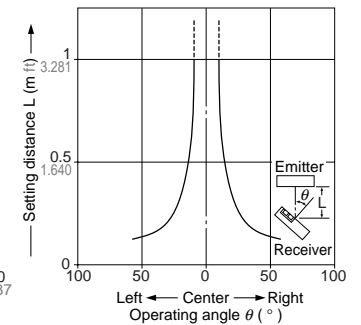


UZB50 □ Thru-beam type

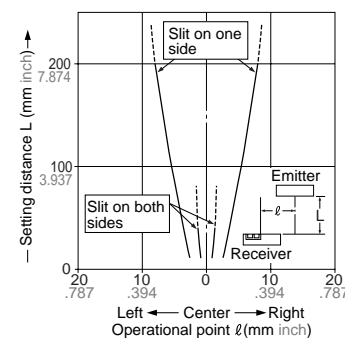
Parallel deviation



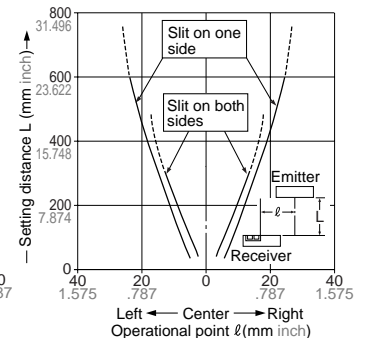
Angular deviation



Parallel deviation with round slit masks (φ0.5mm φ.020inch)



Parallel deviation with rectangular slit masks (0.5mm x 3mm .020inch x .118inch)



SENSING CHARACTERISTICS (TYPICAL)

UZZB610(5)

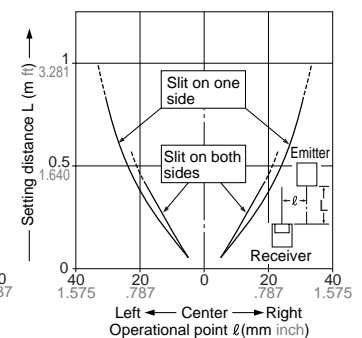
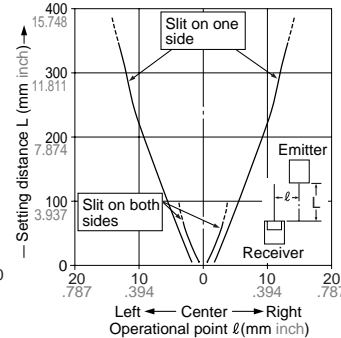
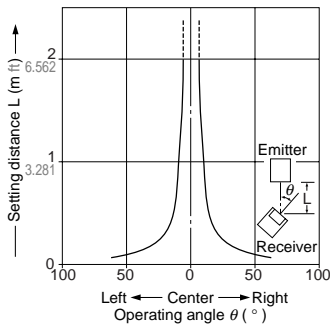
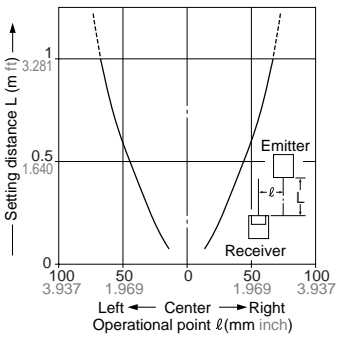
Thru-beam type

Parallel deviation

Angular deviation

Parallel deviation with round slit masks ($\phi 0.5\text{mm}$ $\phi .020\text{inch}$)

Parallel deviation with rectangular slit masks ($0.5\text{mm} \times 3\text{mm}$ $.020\text{inch} \times .118\text{inch}$)

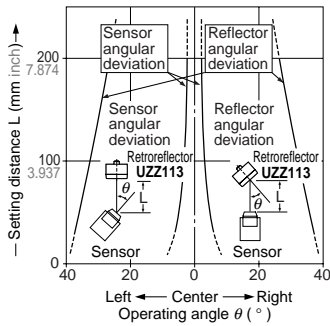
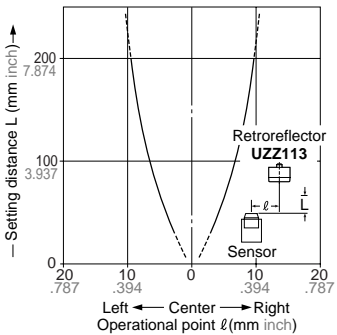


UZZB64

Retroreflective type

Parallel deviation

Angular deviation

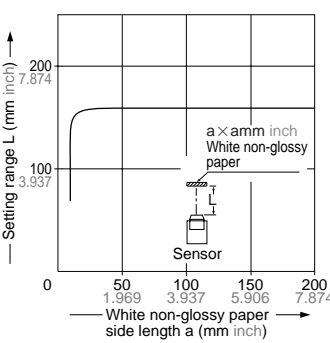
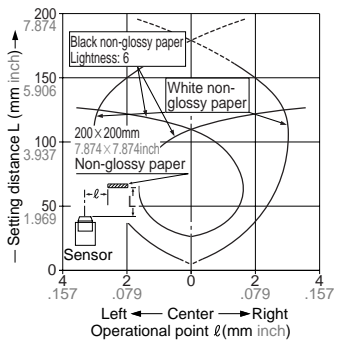


UZZB63

Diffuse reflective type

Sensing field

Correlation between object size and sensing range



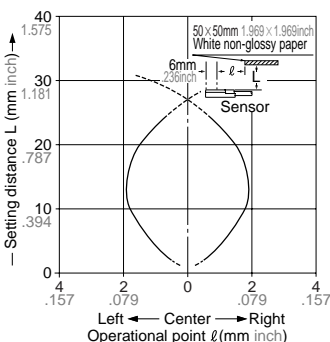
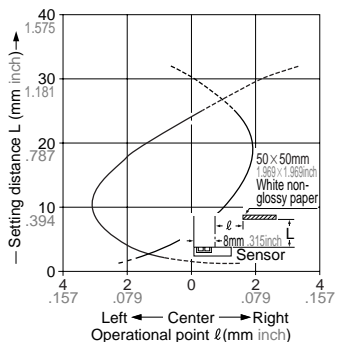
As the object size becomes smaller than the standard size (white non-glossy paper 200x200mm 7.874x7.874inch), the sensing range shortens, as shown in the left graph.

UZZB56

Convergent reflective type

Sensing field

• Horizontal (left and right) direction • Vertical (up and down) direction

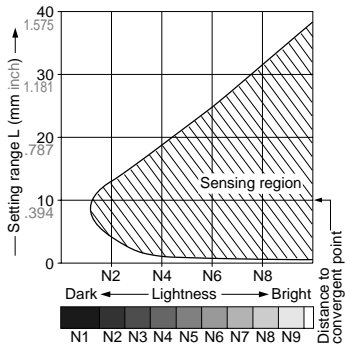


SENSING CHARACTERISTICS (TYPICAL)

UZH56

Convergent reflective type

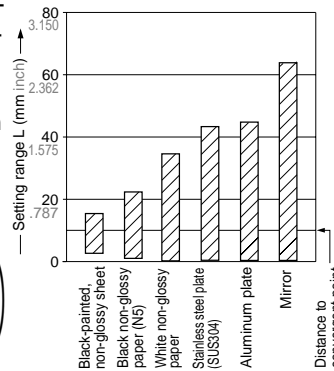
Correlation between lightness and sensing range



The sensing region is represented by oblique lines in the left figure. However, the sensitivity should be set with enough margin because of slight variation in products.

(Lightness shown on the left may differ slightly from the actual object condition.)

Correlation between material (50 × 50mm 1.969 × 1.969inch) and sensing range



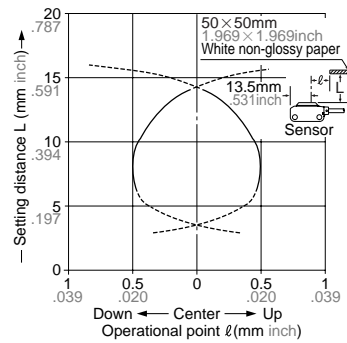
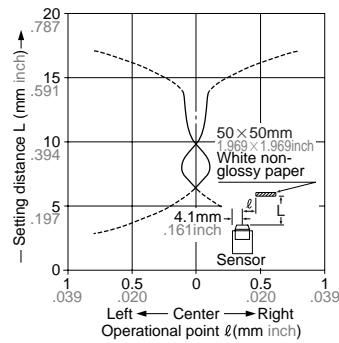
The bars on the graph indicate the sensing range with each object. However, there is a variation in the sensing range depending on the product. Further, if there is a reflective object (conveyor, etc.) in the background of the sensing object, since it affects the sensing, separate it by more than twice the sensing range shown in the left graph.

UZH67

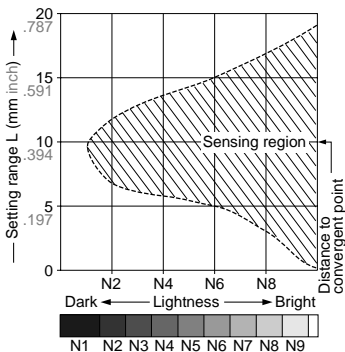
Convergent reflective type

Sensing field

• Horizontal (left and right) direction • Vertical (up and down) direction



Correlation between lightness and sensing range

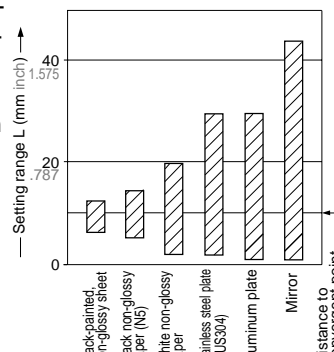


The sensing region is represented by oblique lines in the left figure. However, the sensitivity should be set with enough margin because of slight variation in products.

(The graph is drawn for the maximum sensitivity setting.)

(Lightness shown on the left may differ slightly from the actual object condition.)

Correlation between material (50 × 50mm 1.969 × 1.969inch) and sensing range



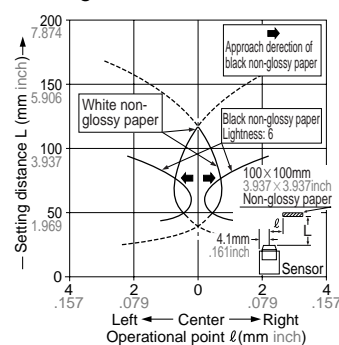
The bars on the graph indicate the sensing range with each object. However, there is a variation in the sensing range depending on the product. Further, if there is a reflective object (conveyor, etc.) in the background of the sensing object, since it affects the sensing, separate it by more than twice the sensing range shown in the left graph, or adjust the sensitivity adjuster.

(The graph is drawn for the maximum sensitivity setting.)

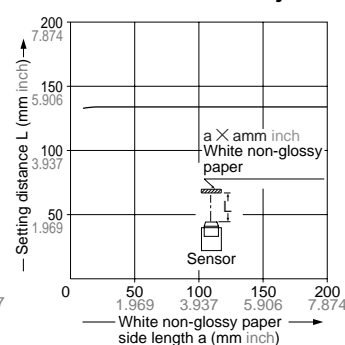
UZH68

Narrow-view reflective type

Sensing field



Correlation between object size and sensing range



As the object size becomes smaller than the standard size (white non-glossy paper 100×100mm 3.937×3.937inch), the sensing range shortens, as shown in the left graph.

PRECAUTIONS FOR PROPER USE

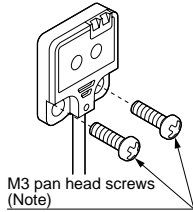


This product is not a safety sensor. Its use is not intended or designed to protect life and prevent body injury or property damage from dangerous parts of machinery. It is a normal object detection sensor.

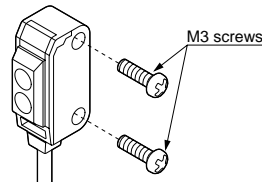
Mounting

- Mount using M3 screws. The tightening torque should be 0.5N•m or less.

Front sensing



Side sensing

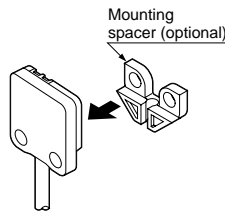


Note: When mounting the front sensing type sensor, use M3 pan head screws without washers, etc.

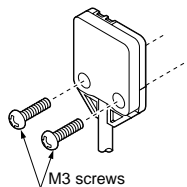
- When mounting the front sensing type from the backside, fit the mounting spacer **UZB853** and fix with screws.

Mounting method

- Fit the mounting spacer on the sensor.



- Align the mounting holes of the mounting spacer and the sensor and mount with M3 screws. The tightening torque should be 0.5N•m or less.



Sensitivity adjustment (Side sensing type only)

Step	Sensitivity adjuster	Description
①		Turn the sensitivity adjuster fully counterclockwise to the minimum sensitivity position (• mark).
②		In the light received condition, turn the sensitivity adjuster slowly clockwise and confirm the point A where the sensor enters the 'Light' state operation.
③		In the dark condition, turn the sensitivity adjuster further clockwise until the sensor enters the 'Light' state operation and then bring it back to confirm point B where the sensor just returns to the 'Dark' state operation. (If the sensor does not enter the 'Light' state operation even when the sensitivity adjuster is turned fully clockwise, this extreme position is point B.)
④		The position at the middle of points A and B is the optimum sensing position.

- Notes: 1) Use the accessory adjusting screwdriver to turn the adjuster slowly. Turning with excessive strength will damage the adjuster.
2) In case of using **UZB63** at a sensing distance of 50mm 1.969inch or less, take care that the sensitivity adjustment range becomes extremely narrow.

Operation mode switch UZB610(5) only

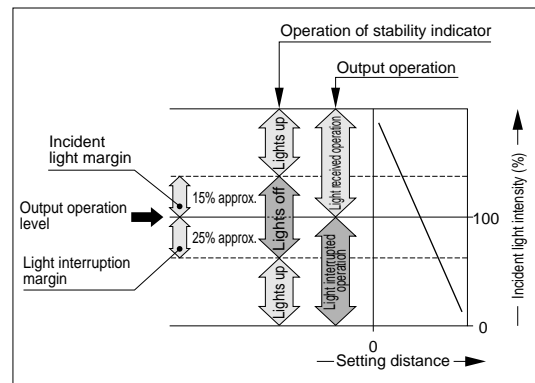
Switch position	Description
	Light-ON mode is obtained when the operation mode switch (located on the receiver) is turned fully clockwise (L side).
	Dark-ON mode is obtained when the operation mode switch (located on the receiver) is turned fully counterclockwise (D side).

Note: Operation mode switch should be turned fully till it stops.

Stability indicator

- The stability indicator (green) lights up when the incident signal light intensity has sufficient margin with respect to the operation level.

If the incident light intensity level is such that the stability indicator lights up, stable sensing can be done without the light received operation and the light interrupted operation being affected by a change in ambient temperature or supply voltage.



Wiring

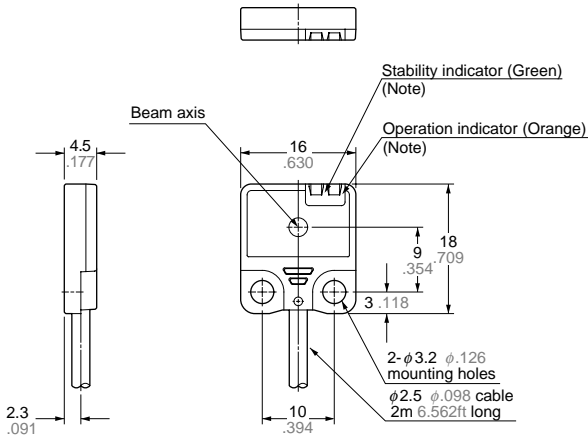
- Make sure to carry out the wiring in the power supply off condition.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this sensor, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- Do not run the wires together with high voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.

Others

- Do not use during the initial transient time (50ms) after the power supply is switched on.
- Avoid dust, dirt, and steam.
- Take care that the sensor does not come in direct contact with water, oil, grease, or organic solvents, such as, thinner, etc.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency lighting device, as it may affect the sensing performance.
- If sensors are mounted close together and the ambient temperature is near the maximum rated value, provide for enough heat radiation/ventilation.

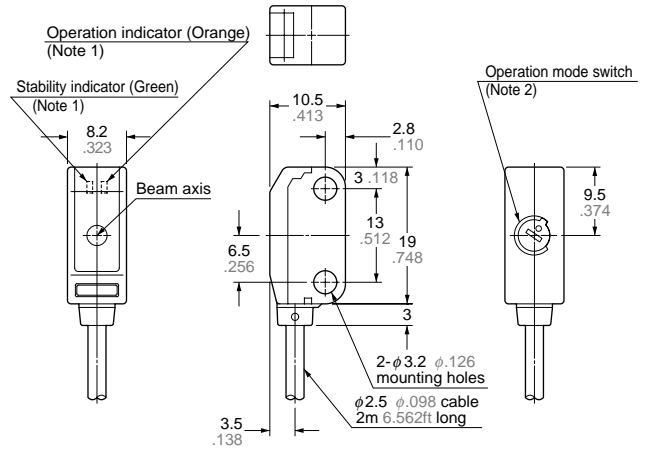
DIMENSIONS (Unit : mm inch)

UZZ50 Sensor



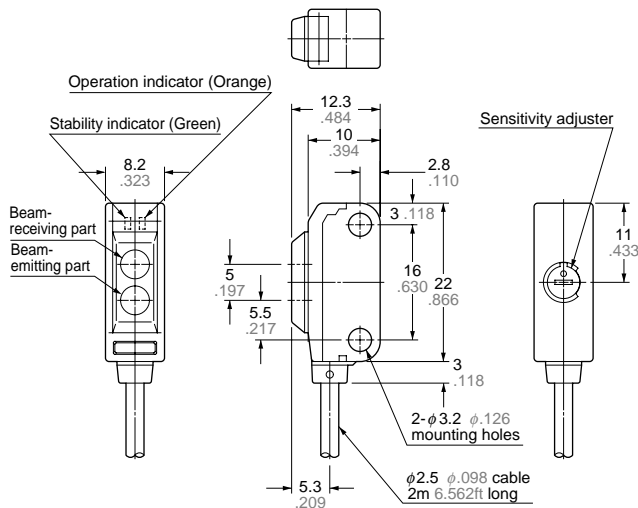
Note: Not incorporated on the emitter.

UZZ610(5) Sensor

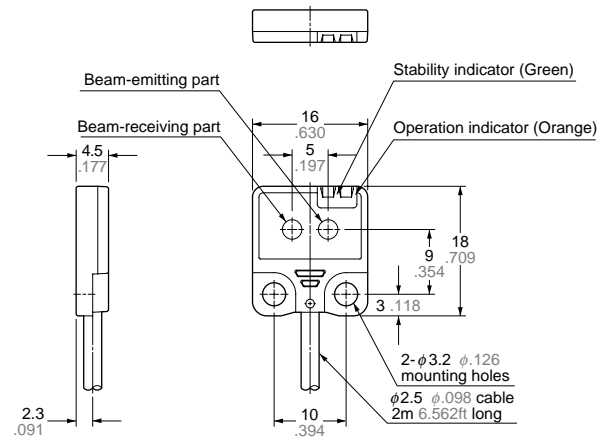


Note: 1) Not incorporated on the emitter.
2) It is the sensitivity adjuster on the emitter.

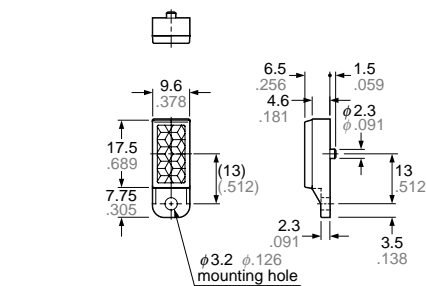
UZZ64 UZZ63 UZZ67 UZZ68 Sensor



UZZ56 Sensor

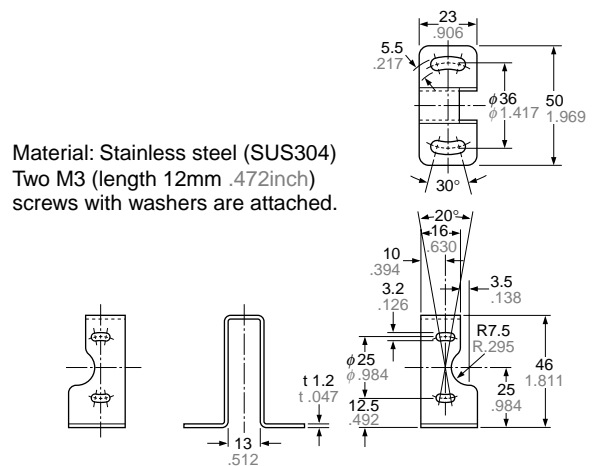


UZZ113 Reflector (Accessory for the retroreflective type sensor)



Material: Acrylic (Reflector)
ABS (Base)

UZZ1100 Reflector mounting bracket for UZZ110 (Optional)

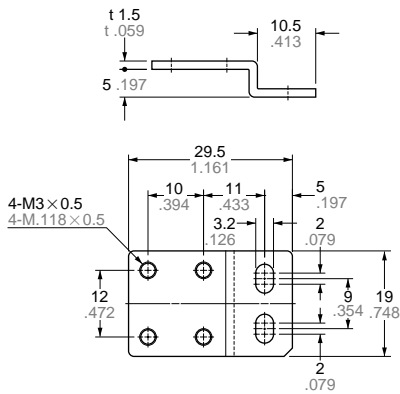


Material: Stainless steel (SUS304)
Two M3 (length 12mm .472inch)
screws with washers are attached.

DIMENSIONS (Unit : mm inch)

UZB851

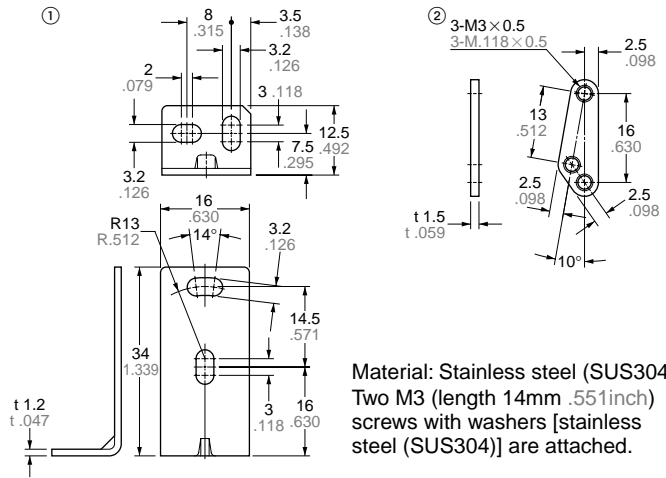
Sensor mounting bracket (Optional)



Material: Stainless steel (SUS304)
Two M3 (length 5mm .197inch) pan head screws [stainless steel (SUS304)] are attached.

UZB861

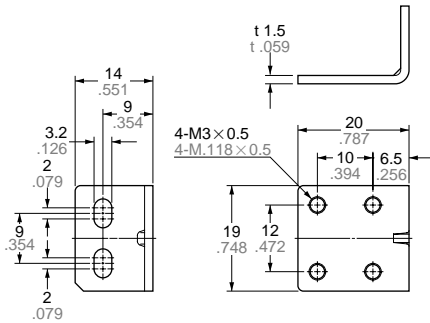
Sensor mounting bracket (Optional)



Material: Stainless steel (SUS304)
Two M3 (length 14mm .551inch) screws with washers [stainless steel (SUS304)] are attached.

UZB852

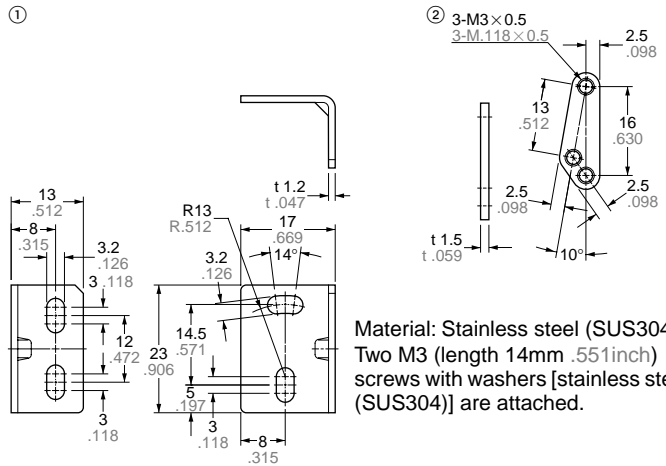
Sensor mounting bracket (Optional)



Material: Stainless steel (SUS304)
Two M3 (length 5mm .197inch) pan head screws [stainless steel (SUS304)] are attached.

UZB862

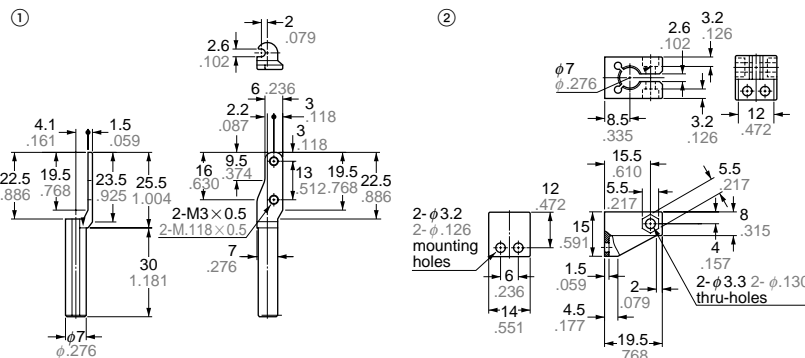
Sensor mounting bracket (Optional)



Material: Stainless steel (SUS304)
Two M3 (length 14mm .551inch) screws with washers [stainless steel (SUS304)] are attached.

UZB863

Universal sensor mounting bracket (Optional)

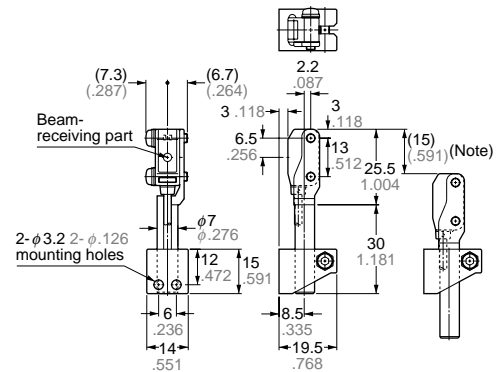


Material: Die-cast zinc alloy
Two M3 (length 12mm .472inch) screws with washers [stainless steel (SUS304)] , one M3 (length 10mm .394inch) hexagon-socket-head bolt, and one M3 hexagon nut [stainless steel (SUS304)] are attached.

Material: Nylon 6

Assembly dimensions

Mounting drawing with the receiver of UZB610(5)



Note: This is the adjustable range of the movable part.