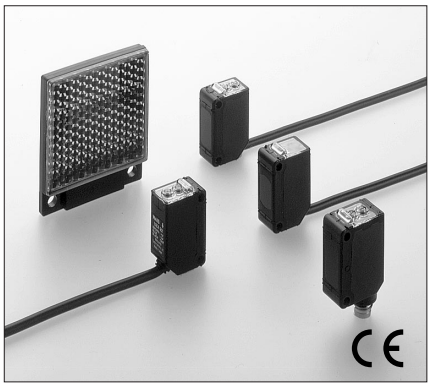
NAiS

COMPACT SIZE
GENERAL USE
PHOTOELECTRIC SENSORS

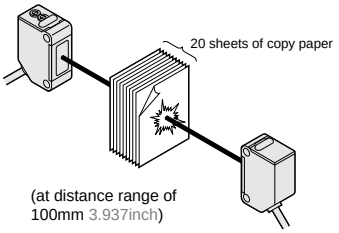
UZA Series

EXHAUSTIVE PERSUIT OF THE BASIC PERFORMANCE



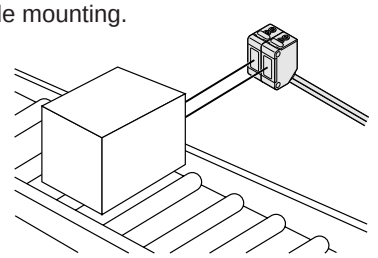
Strong Light Beam Potential

UZA20, **UZA205** use an infrared light beam strong enough to penetrate 20 sheets of copy paper (highly resistant to contamination).



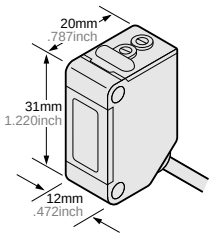
Close Mounting of Two Sensors

UZA23□, **UZA24**□, and **UZA26**□ are equipped with an automatic crosstalk prevention function to allow side by side mounting.



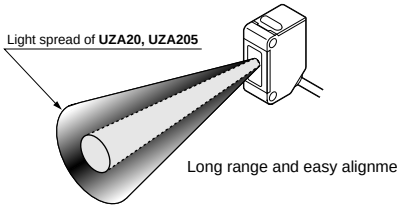
Compact Size

Depth is only 20mm .787inch.



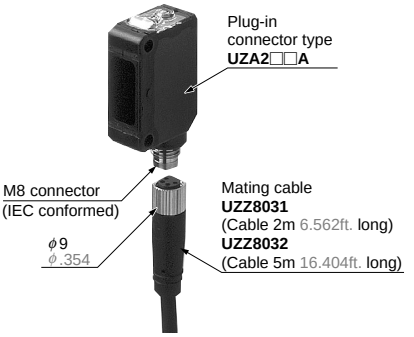
Easy Alignment

The width of the emitted beam makes alignment easy for the thru-beam, while the use of a visible red LED does the same for the retroreflective version.



Plug-in Connector Type is Available

By one-touch disconnection, any one can replace the sensor in a minute.
If a trouble happens, the **UZA** with the connector assists your maintenance with ease.



Waterproof

IP67 housing (temporarily submersible) stainless steel brackets.

Reliable Detection of Transparent Targets

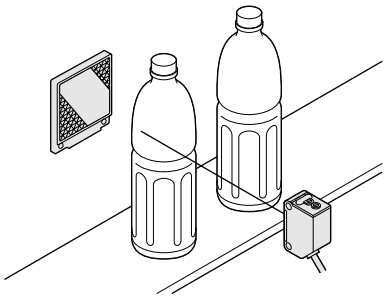
UZA25, **255** have unique optics and electronics design to “see” transparent objects.

Transparent Objects can be Detected Reliably

UZA25□ detect transparent objects reliably because of its unique optical system and electronic circuit.

ℓ : Length, t : Thickness

Pass sensing of pet bottles



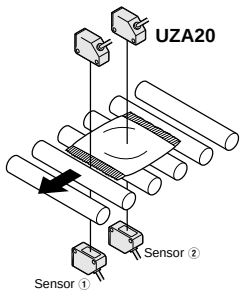
Detectable transparent objects
[by using a **UZZ112** reflector at optimum condition (*1)]
When the passing position of the sensing object places at the center of the sensor and reflector.

(*1) : The optimum state is the condition that the sensitivity is set at the limit level where a stability indicator just starts to light up.

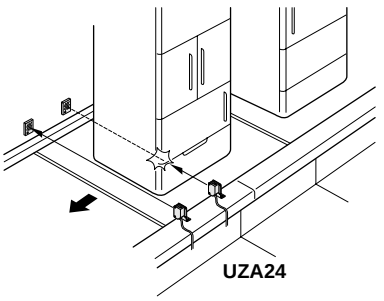
Sensing object	The size of a sensing object
Glass boads	□50mm 1.969inch t=1.0mm .039inch
Cylindrical glasses	ϕ50mm ϕ1.969inch ℓ=50mm 1.969inch t=2.0mm .078inch
	ϕ100mm ϕ3.937inch ℓ=50mm 1.969inch t=2.3mm .091inch
Acrylic boards	□50mm 1.969inch t=1.5mm .059inch
Styrols (floppy cases)	□50mm 1.969inch t=1.2mm .047inch
Food wrapping films	□50mm 1.969inch t=10μm
Cigarette case films	□50mm 1.969inch t=20μm
Venyl sacks	□50mm 1.969inch t=30μm
Pet bottles	ϕ55mm ϕ2.165inch
	ϕ70mm ϕ2.756inch
Glass bins	ϕ65mm ϕ2.559inch

APPLICATIONS

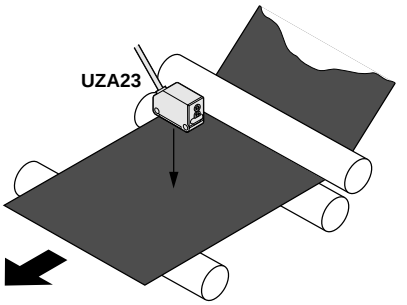
Content check inside paper pouches



Detection of white specular goods



Detection of rubber sheets

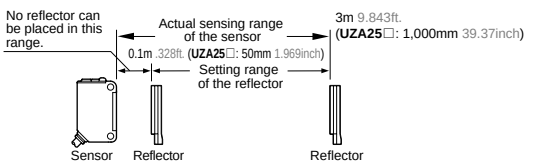


ORDER GUIDE

			Appearance	Sensing range	Model No.	Sensing output	Emitting element
NPN output type	Thru-beam			10m 32.808ft.	**UZA20**	NPN open-collector transistor	Infrared LED
	Retroreflective	With polarizing filters		0.1 to 3m (*1) .328 to 9.843ft.	**UZA24**		Red LED
		For transparent object sensing / Long sensing range		50 to 1,000mm (*1) 1.969 to 39.370inch	**UZA25**		Infrared LED
	Diffuse reflective	Long sensing range		800mm 31.496inch	**UZA23**		Infrared LED
		Short sensing range		300mm 11.811inch	**UZA26**		
PNP output type	Thru-beam			10m 32.808ft.	**UZA205**	PNP open-collector transistor	Infrared LED
	Retroreflective	With polarizing filters		0.1 to 3m (*1) .328 to 9.843ft.	**UZA245**		Red LED
		For transparent object sensing / Long sensing range		50 to 1,000mm (*1) 1.969 to 39.370inch	**UZA255**		Infrared LED
	Diffuse reflective	Long sensing range		800mm 31.496inch	**UZA235**		Infrared LED
		Short sensing range		300mm 11.811inch	**UZA265**		

Cautions: Mounting bracket is not supplied with UZA series so that users' can select it in accordance with mounting methods.
Purchase optional sensor mounting brackets (five types) are available for users' need. See next page.

(*1) : The sensing range of the retroreflective sensor is the figure using a **UZZ112** reflector.
Possible setting range of the reflector is indicated as a sensing range. Therefore, the sensor can detect an object within a sensing range of 0.1m .328ft.(**UZA25**□ : 50mm 1.969inch).



Self-diagnosis output type (Equipped for NPN output type only and not equipped for **UZA25**□).
Self-diagnosis output type is also available.

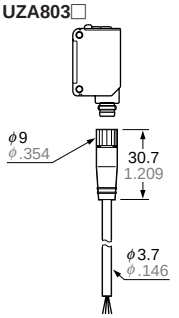
A package without a reflector
A package without a reflector is also available for the model Nos. of **UZA24**□ and **UZA25**□.

Plug-in connector type (Not available with the self-diagnosis output type)
The sensor with a connector is also available. When ordering this type, add suffix "A" at the end of the model number. Purchase a mating cable separately.
e. g.) The connector type for **UZA20** is "**UZA20A**".

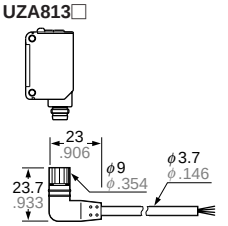
•Mating cable

Type	Model No.	Description	
Straight	**UZZ8031**	Length: 2m 6.562ft.	Cabtyre cable with four 0.5mm² conductors Outer diameter : ϕ7mm ϕ.276inch With the connector on one end. Two cables a set.
	UZZ8032	Length: 5m 16.404ft.	
Elbow	**UZZ8131**	Length: 2m 6.562ft.	
	UZZ8132	Length: 5m 16.404ft.	

UZA803□



UZA813□

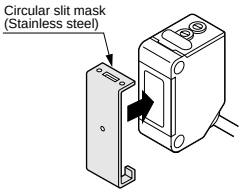


OPTION

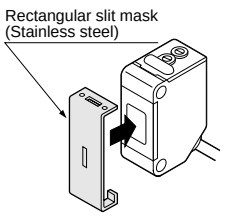
Component	Model No.	Description	
Circular slit mask (For thru-beam sensor only)	**UZA801** (ϕ0.5mm ϕ.020inch)	When fitted to one side	Sensing range: 400mm 15.748inch **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		When fitted to both sides	Sensing range: 20mm .787inch **[UZA20□]** Min. sensing object: ϕ0.5mm ϕ.020inch
	UZA802 (ϕ1mm ϕ.039inch)	When fitted to one side	Sensing range: 900mm 35.433inch **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		When fitted to both sides	Sensing range: 100mm 3.937inch **[UZA20□]** Min. sensing object: ϕ1mm ϕ.039inch
	UZA803 (ϕ2mm ϕ.079inch)	When fitted to one side	Sensing range: 2m 6.562ft. **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		When fitted to both sides	Sensing range: 400mm 15.748inch **[UZA20□]** Min. sensing object: ϕ2mm ϕ.079inch
Rectangular slit mask (For thru-beam sensor only)	**UZA804** (0.5×6mm .020×.236inch)	One side slit-on	Sensing range: 2m 6.562ft. **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		Both side slit-on	Sensing range: 400mm 15.748inch **[UZA20□]** Min. sensing object: 0.5mm×6mm .020×.236inch
	UZA805 (1×6mm .039×.236inch)	One side slit-on	Sensing range: 3m 9.843ft. **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		Both side slit-on	Sensing range: 1m 3.281ft. **[UZA20□]** Min. sensing object: 1mm×6mm .039×.236inch
	UZA806 (2×6mm .079×.236inch)	One side slit-on	Sensing range: 5m 16.404ft. **[UZA20□]** Min. sensing object: ϕ12mm ϕ.472inch
		Both side slit-on	Sensing range: 400mm 15.748inch **[UZA20□]** Min. sensing object: 2mm×6mm .079×.236inch
Reflector (For retroreflective sensor only)	**UZZ110**	Sensing range: 0.1 to 1m .328 to 3.281ft. **[UZA24□]** 50 to 250mm 1.969 to 9.843inch **[UZA25□]** Min. sensing object: ϕ30mm ϕ1.181inch **[UZA24□, UZA25□]**	
	UZZ111	Sensing object: 0.1 to 1.5m .328 to 4.921ft. **[UZA24□]** 50 to 500mm 1.969 to 19.685inch **[UZA25□]** Min. sensing object: ϕ35mm ϕ1.378inch	
Reflector mounting bracket	**UZZ1100**	Protective mounting bracket for **UZZ110** Protects the reflector from damage and keeps an exact alignment	
	UZZ1110	For **UZZ111**	
	UZZ1120	For **UZZ112**	
Reflective tape (For retroreflective sensor only) (*1)	**UZZ101**	Ambient temperature: –25 to + 50°C –13 to + 122°F Ambient humidity: 35 to 85%RH The performance of the reflective tape may deteriorate if it is used under a pressed condition. Do not cut the tape to use. Doing so may lose the performance.	Sensing range: 0.1 to 0.5mm .004 to .020inch **[UZA24□]**
	UZZ102		Sensing range: 0.1 to 0.7mm .004 to .028inch **[UZA24□]** 0.15 to 0.4mm .006 to .016inch **[UZA25□]**
Sensor mounting bracket (*2)	**UZA821**	Foot angled mounting bracket Usable as the mounting bracket for **UZZ110**	
	UZA822	Foot di-angled mounting bracket Saving height and mountable on the flat Usable as the mounting bracket for **UZZ110**	
	UZA823	Protective mounting bracket Protects the sensor from damage and keeps an exact alignment	
	UZA824	Back di-angled mounting bracket	
	UZA825	Back angled mounting bracket	

(*1) : **UZZ101** and **UZZ102** can not be used for **UZA25□**.
(*2) : Two sets are required for the thru-beam sensor.

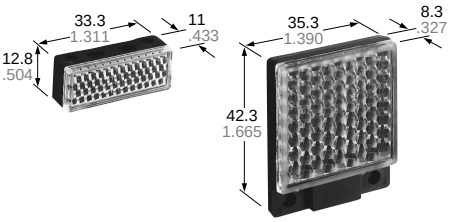
Circular slit mask
Fitted to the front surface of the sensor with one-push.



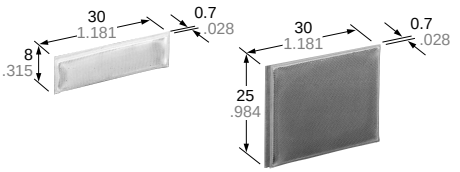
Rectangular slit mask
Fitted to the front surface of the sensor with one-push.



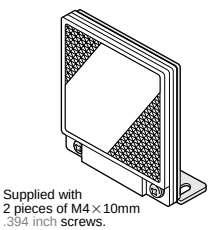
Reflector
•UZZ110 **•UZZ111**



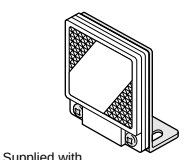
Reflective tape
•UZZ101 **•UZZ102**



Reflector mounting bracket
•UZZ1120 **•UZZ1110**

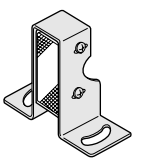


Supplied with 2 pieces of M4×10mm .394 inch screws.



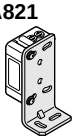
Supplied with 2 pieces of M3×8mm .315inch screws.

•UZZ1100

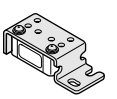


Supplied with 2 pieces of M3×12mm .472inch screws

Sensor mounting bracket
•UZA821 **•UZA822**

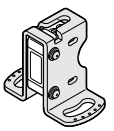


Supplied with 2 pieces of M3×12mm .472inch screws.

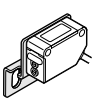


Supplied with 2 pieces of M3×12mm .472inch screws.

•UZA823 **•UZA824**

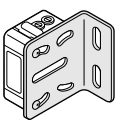


Supplied with 2 pieces of M3×14mm .551inch screws.



Supplied with 2 pieces of M3×12mm .472inch screws.

•UZA825



Supplied with 2 pieces of M3×12mm .472inch screws.

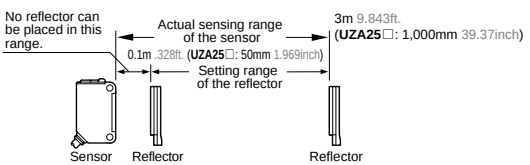
SPECIFICATIONS

Item \ Type		Thru-beam	Retroreflective		Diffuse reflective	
			With polarizing filters	For transparent object sensing	Long sensing range	Short sensing range
Model No.	NPN output type	**UZA20**	**UZA24**	**UZA25**	**UZA23**	**UZA26**
	PNP output type	**UZA205**	**UZA245**	**UZA255**	**UZA235**	**UZA265**
Sensing range		10m 32.808ft.	0.1 to 3m .328 to 9.843ft.(*1)	50 to 1,000mm 1.969 to 39.37inch(*1)	800mm 31.496inch (*2)	300mm 11.811inch (*2)
Sensing object		Opaque object of ϕ12mm ϕ.472inch or more	Opaque, translucent & specular object of ϕ50mm ϕ1.969inch or more (*1) (*3)	Opaque, translucent & transparent object of ϕ50mm ϕ1.969inch or more (*1)	Opaque, translucent & transparent object.	
Hysteresis		———			15% or less of an operation distance	
Repeatability (vertical direction for a light axis)		0.5mm .020inch or less			1mm .039inch or less	
Supply voltage		12 to 24V DC±10% Ripple P-P: 10% or less				
Consumption	NPN output type	Emitter: 35mA or less Receiver: 25mA or less	30mA or less		35mA or less	
	PNP output type	Emitter: 35mA or less Receiver: 30mA or less	35mA or less		40mA or less	
Sensing output		<NPN output type> NPN open-collector transistor Sink current: 100mA max. Applied voltage: 30V DC or less Residual voltage: 1.5V or less (at 100mA sink current) 0.4V or less (at 16mA sink current)		<PNP output type> PNP open-collector transistor Source current: 100mA max. Applied voltage: 30V DC or less Residual voltage: 1.5V or less (at 100mA source current) 0.4V or less (at 16mA source current)		
	Output operation	Selection of Light-ON/Dark-ON by a switch				
	Short-circuit protection	Equipped				
Response time		1ms or less				
Operation indicator		Red LED (lights up when the sensing output is in the ON state)				
Stability indicator		Green LED (lights up at the stable light-receiving or the stable light-interrupted conditions)				
Power indicator		Red LED (lights up while the power is supplied)	———			
Sensitivity adjuster		Equipped with a continuously variable adjuster				
Automatic crosstalk prevention function		———	Two units of sensors can be mounted closely.	———	Two units of sensors can be mounted closely	
Environmental resistance	Protection	IP67 (IEC)				
	Ambient temperature	–25 to + 55°C –13 to 131°F (No dew condensation nor icing allowed), Storage: –30 to + 70°C –22 to 158°F				
	Ambient humidity	35 to 85%RH, Storage: 35 to 85%RH				
	Ambient light	Sun light: 10,000$\ell\times$at the light-receiving face, Incandescent light: 3,000$\ell\times$at the light-receiving face				
	Noise	Power line: 240Vp with 0.5µs pulse duration (28 to 100Hz), Radiation: 300Vp with 10ms cycle and 0.5µs pulse duration (by a noise simulator)				
	Withstand voltage	1,000V AC applied between the live parts and enclosure for 1 min.				
	Insulation	20MΩ min. applied between the live parts and enclosure at 250V DC				
	Vibration	1.5mm amplitude at the frequency of 10 to 500Hz in each of X, Y and Z directions for 2 hours each in the power OFF state				
	Shock	500m/s^2 {approx. 50G} impulse in each of X, Y and Z directions for 3 times each in the power OFF state				
Emitting element		Infrared LED (modulated)	Red LED (modulated)	Infrared LED (modulated)		
Material		Enclosure·Lens·Indicator cover: Polycarbonate, Front cover: Polycarbonate (Acrylic for UZA24□)				
Cable		0.2mm$^2\times$3 cores with 2m of oil resistant cable (2 cores for the emitter only)				
Cable extension		Extendable up to 100m 328.084ft. by using 0.3mm^2 or more cable (Thru-beam sensor: each emitter and receiver)				
Weight		Emitter: Approx. 45g 1.59oz Receiver: Approx. 50g 1.76oz	Approx. 50g 1.76oz			
Accessories		Screwdriver for the sensitivity adjustment : 1pc	UZZ112 (reflector): 1pc. Screwdriver for the sensitivity adjustment: 1pc.		Screwdriver for the sensitivity adjustment: 1pc.	

(*1): The sensing range and sensing object of the retroreflective senaor is the figure using a **UZZ112** reflector. Possible setting range of the reflector is indicated as a sensing range. Therefore, the sensor can detect the object within a sensing range of 0.1mm .004inch (**UZA25**□: 50mm 1.969inch)

(*2): The sensing range of the diffuse reflective sensor is the figure using an object of non-glossy white paper (200$\times$200mm 7.874$\times$7.874inch).

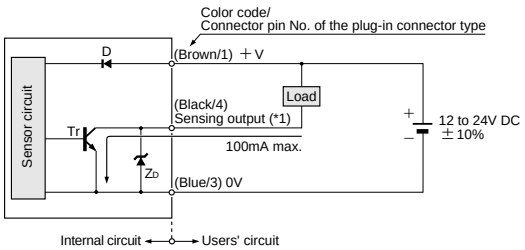
(*3): The beam sensor of retroreflective mode with polarizing filters may not stably detect specular or glossy objects over transparent film. Refer to **"PRECAUTIONS FOR PROPER USE"**
(e,g.): Can wrapped by clear film
Aluminum sheet covered by plastic film
Silver sticker or paper with transparent membrane.



TYPICAL WIRING DIAGRAMS

NPN output type

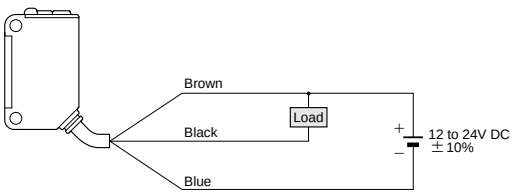
I/O circuit diagram



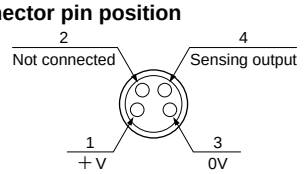
(*1): The emitter of the thru-beam sensor is not incorporated with the sensing output.

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

Wiring diagram

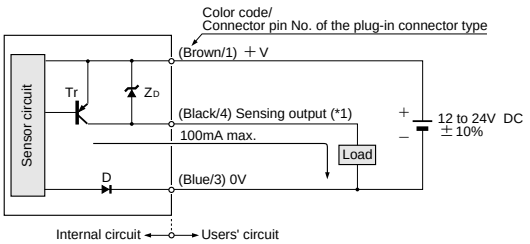


Connector pin position



PNP output type

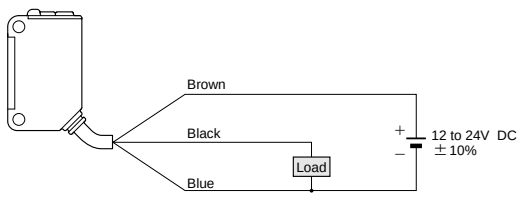
I/O circuit diagram



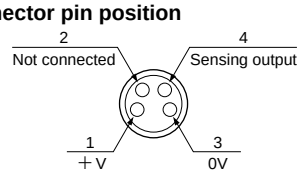
(*1): The emitter of the thru-beam sensor is not incorporated with the sensing output.

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

Wiring diagram



Connector pin position

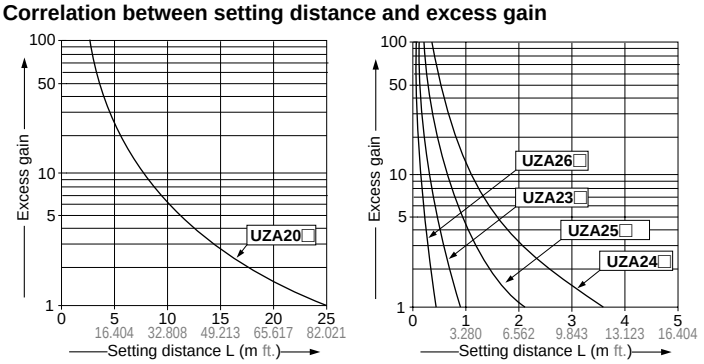


SENSING FIELDS

These are typical sensing fields, which may vary slightly from unit to unit.

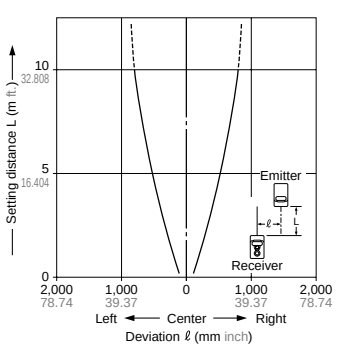
All models

Correlation between setting distance and excess gain

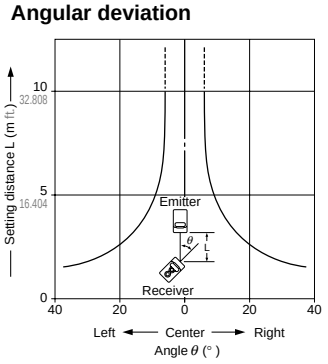


UZA20□ Thru-beam

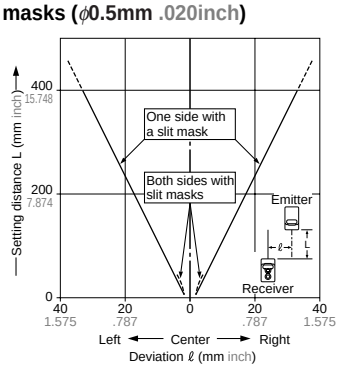
Parallel deviation



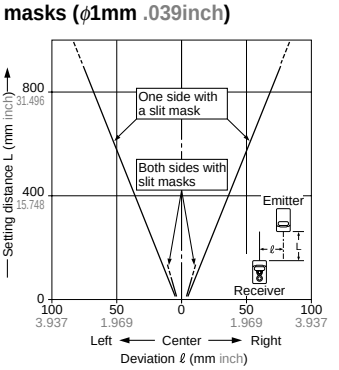
Angular deviation



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



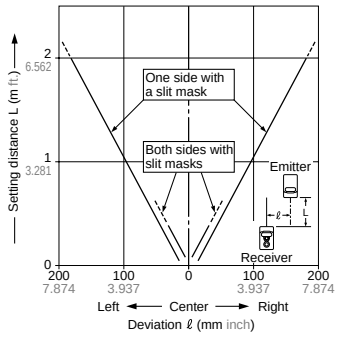
Parallel deviation with circular slit masks (ϕ1mm .039inch)



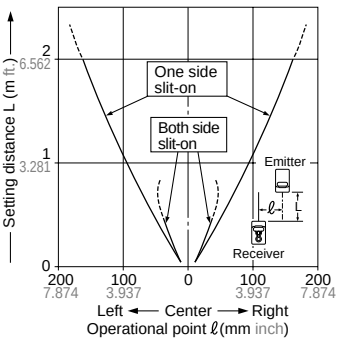
SENSING FIELDS

These are typical sensing fields, which may vary slightly from unit to unit.

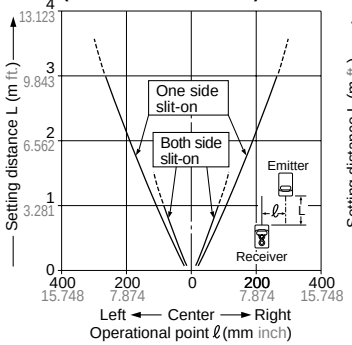
Parallel deviation with circular slit masks (ϕ2mm .079inch)



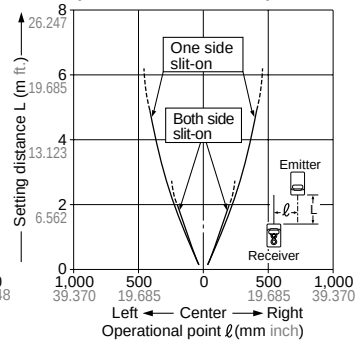
Parallel deviation with rectangular slit masks (0.5×6mm .020×.236inch)



Parallel deviation with rectangular slit masks (1×6mm .039×.236inch)

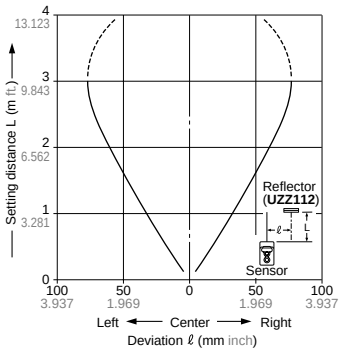


Parallel deviation with rectangular slit masks (2×6mm .079×.236inch)

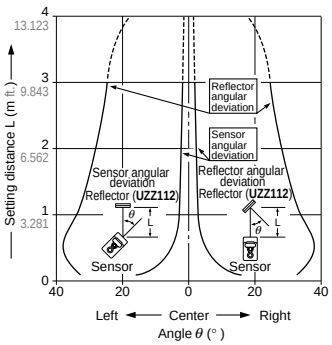


UZA24□ Retroreflective

Parallel deviation

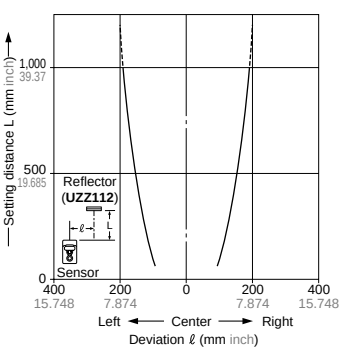


Angular deviation

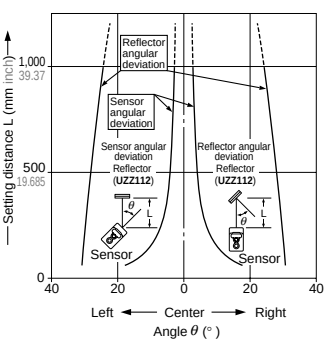


UZA25□ Retroreflective

Parallel deviation

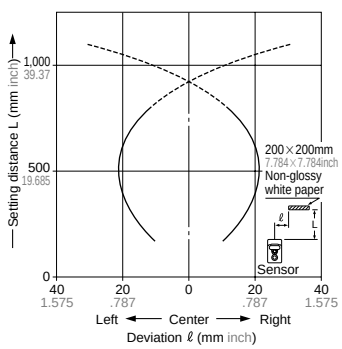


Angular deviation

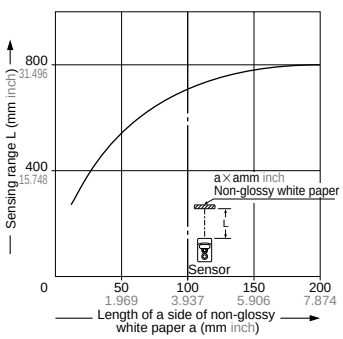


UZA23□ Diffuse reflective

Sensing field



Object size – Sensing range correlation

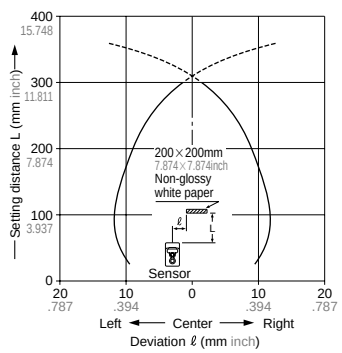


Note that the sensing range decreases if a sensing object is smaller than the standard size (a non-glossy white paper: 200×200mm 7.874×7.874inch) as shown in the graph on the left.

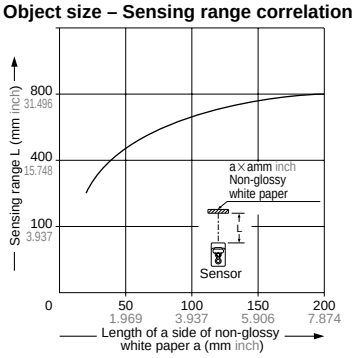
(The curve shows the figure obtained when the sensor is adjusted to detect a 200×200mm 7.874×7.874inch non-glossy white paper at the sensing range of 800mm 31.496inch.)

UZA26□ Diffuse reflective

Sensing field



Object size – Sensing range correlation



Note that the sensing range decreases if a sensing object is smaller than the standard size (a non-glossy white paper: 200×200mm 7.874×7.874inch) as shown in the graph on the left.

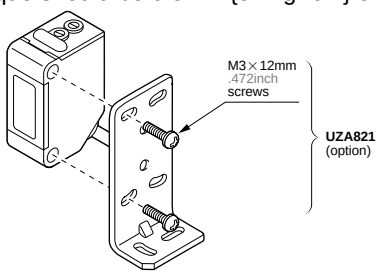
(The curve shows the figure obtained when the sensor is adjusted to detect a 200×200mm 7.874×7.874inch non-glossy white paper at the sensing range of 300mm 11.811inch.)

PRECAUTIONS FOR PROPER USE

These products are **not** safety sensors and are **not** designed or intended to be used to protect life and prevent bodily injury or property damage.

Mounting

Tightening torque should be 0.5N·m{5.1kgf·cm} or less.



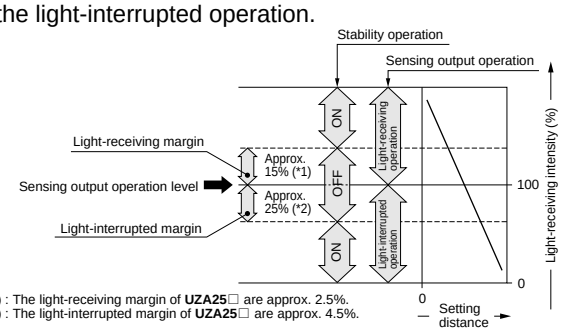
Operation mode selection switch

	Light-ON mode is obtained when the switch is turned fully counterclockwise.
	Dark-ON mode is obtained when the switch is turned fully clockwise.

Stability indicator

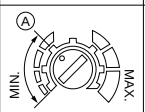
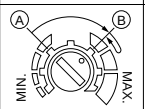
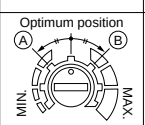
The stability indicator (green) lights up when the light-receiving intensity of the signal light is sufficient against the operation level.

If the light-receiving level where the stability indicator lights up, the sensor can detect stably without affecting the temperature and the voltage change at the light-receiving operation and the light-interrupted operation.

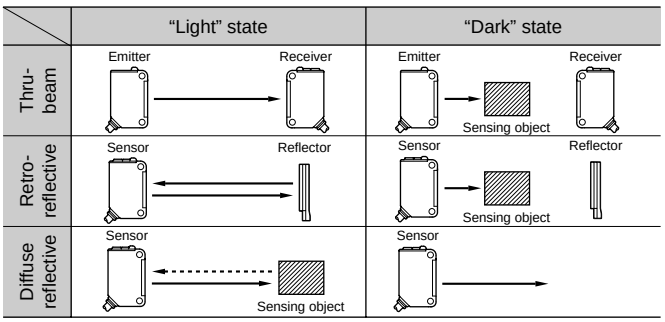


(*1) : The light-receiving margin of **UZA25**□ are approx. 2.5%.
(*2) : The light-interrupted margin of **UZA25**□ are approx. 4.5%.

Sensitivity setup

①		Turn the sensitivity adjuster over counterclockwise, set the min. sensitivity position (MIN.).
②		Turn the sensitivity adjuster clockwise slowly at the “Light-receiving” condition, check the point Ⓐ where the sensor turns on in the “light” state.
③		Turn the sensitivity adjuster clockwise at the “Light-interrupted” condition, check the point Ⓑ where the sensor turns off in the “light” state after operating at the light-receiving condition. (When the sensor does not operate, at the “light” state with turning it over clockwise, the position where turned it over is the point Ⓑ.)
④		The optimum position is halfway between point Ⓐ and Ⓑ.

(*1): Turn the sensitivity adjuster slowly with the attached driver. If turn it over, be aware the sensor may be damaged.



Wiring

Do not supply power while wiring.

Verify that supply voltage ripple is within the rating.

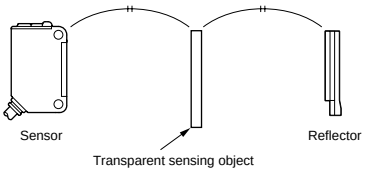
With a commercial switching regulator, ground the F.G. terminal.

Where equipment generating noise such as a switching regulator or an inverter motor is placed around the sensor, ground its F.G. terminal.

Do not run the sensor cable along any high-voltage or power cable in parallel or in a same raceway. It may cause a malfunction by induction.

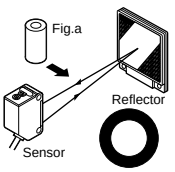
Transparent object sensing UZA25□ of the retroreflective sensor

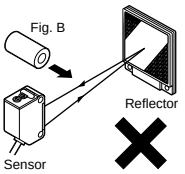
The optimum sensing is possible when the sensing position of a transparent sensing object is set at the center of the sensor and the reflector. If setting the sensing position near the sensor or the reflector, the sensing may be unstable. In this case, set the sensing position at the center of the sensor and the reflector.



When the sensor detects a rough plastic receptacle or glass bin, the light-receiving intensity may differ in accordance with the sensing position or direction. Adjust the sensitivity by turning the sensing object and confirms the stable sensing condition.

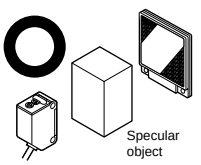
If your object is a specular cylinder, feed it with standing, not lying, as the figure A. The sensor may fail to detect the lying object as the figure B.

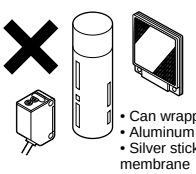




UZA24□, Retroreflective mode with polarizing filters

As light is polarized by the transparent film or membrane, **UZA24**□ may not detect the object covered or wrapped by it.





- Can wrapped by clear film
- Aluminum sheet covered by plastic film
- Silver sticker or paper with transparent membrane

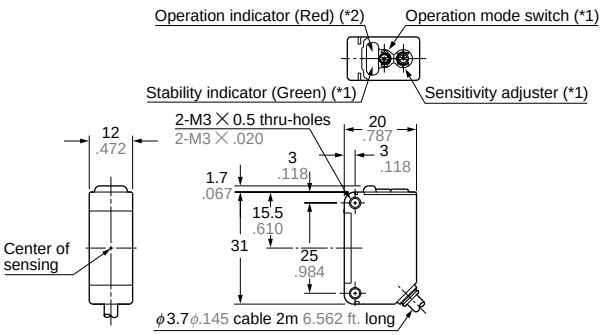
Others

Do not use the sensor output signal for 50ms immediately after the power is supplied to the sensor.

Avoid places where the sensor may be directly exposed to fluorescent lamps with rapid-starters or high frequency lighting as it may affect the sensing performance.

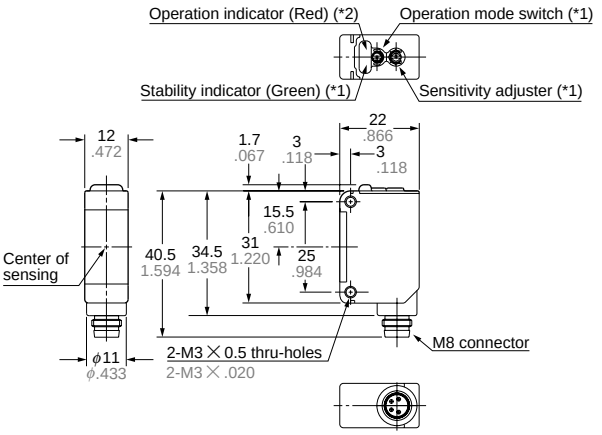
DIMENSIONS (Unit: mm inch)

UZA2□□ Sensor



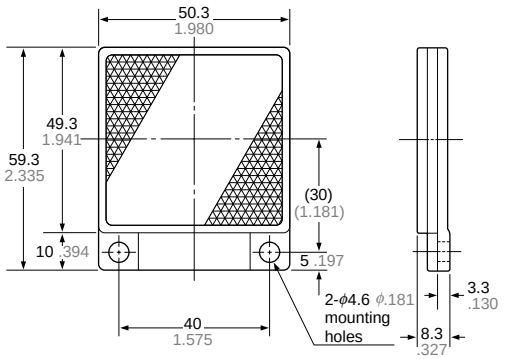
(*1): The emitter of the thru-beam sensor is not incorporated with it.
(*2): It is substituded with the power indicator (red) on the emitter of the thru-beam sensor.

UZA2□□A Sensor



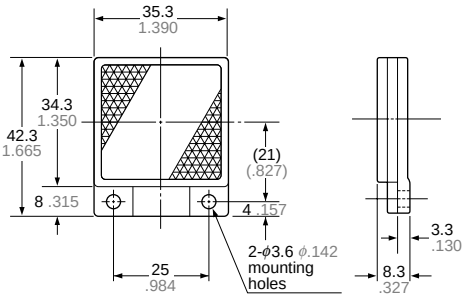
(*1): The emitter of the thru-beam sensor is not incorporated with it.
(*2): It is substituded with the power indicator (red) on the emitter of the thru-beam sensor.

UZZ112 Reflector (accessory for the retroreflective sensor)



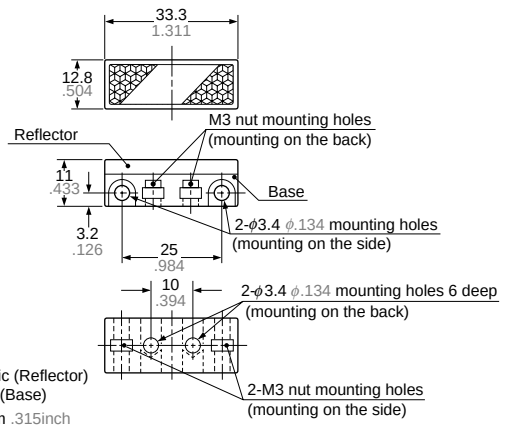
Material : Acrylic (Reflector)
ABS (Base)

UZZ111 Reflector (option)



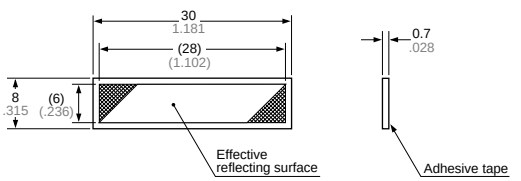
Material : Acrylic (Reflector)
ABS (Base)

UZZ110 Reflector (option)



Material : Acrylic (Reflector)
ABS (Base)
Two M3 × 8mm .315inch screws with washers and two nuts are attached.

UZZ101 Reflective tape (option)

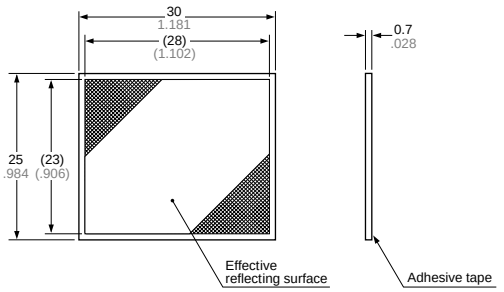


Material : Vinyl chloride

DIMENSIONS (Unit: mm inch)

UZZ102

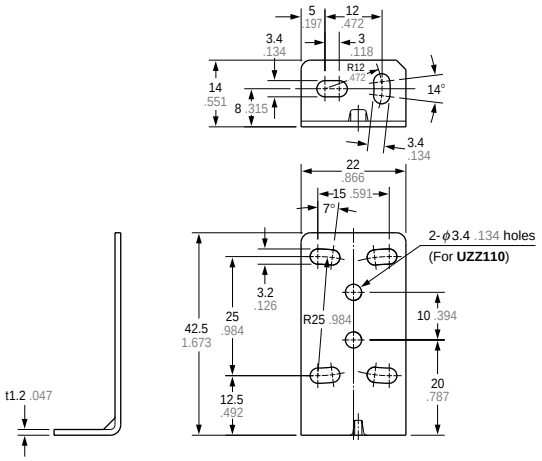
Reflective tape (option)



Material : Vinyl chloride

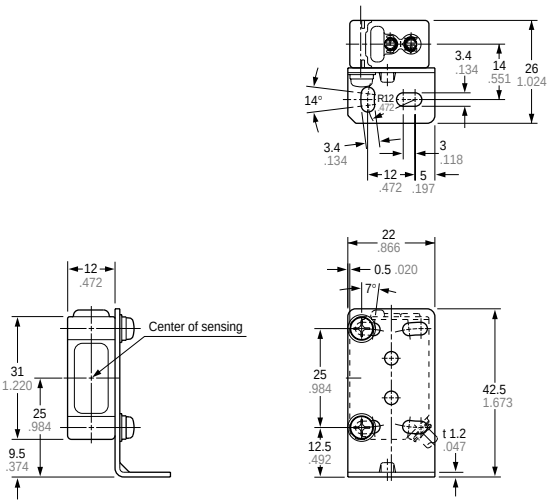
UZA821

Sensor mounting bracket (option)



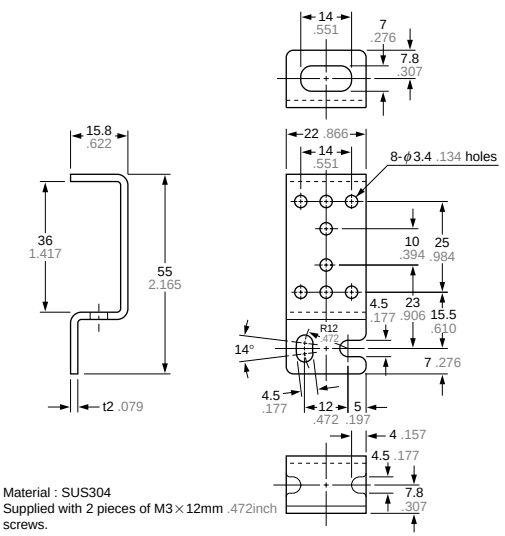
Material : SUS304
Supplied with 2 pieces of M3×12 mm .472inch screws.

Mounting drawing



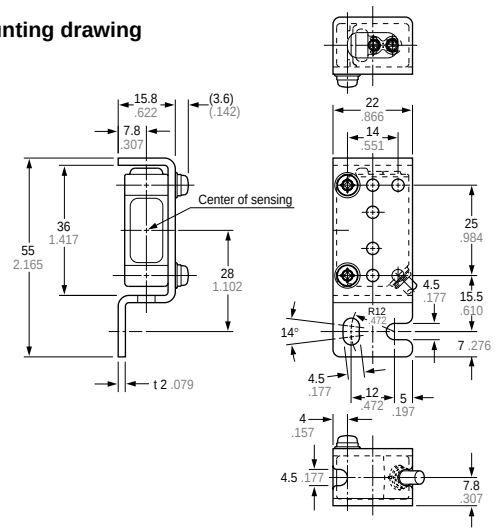
UZA822

Sensor mounting bracket (option)



Material : SUS304
Supplied with 2 pieces of M3×12mm .472inch screws.

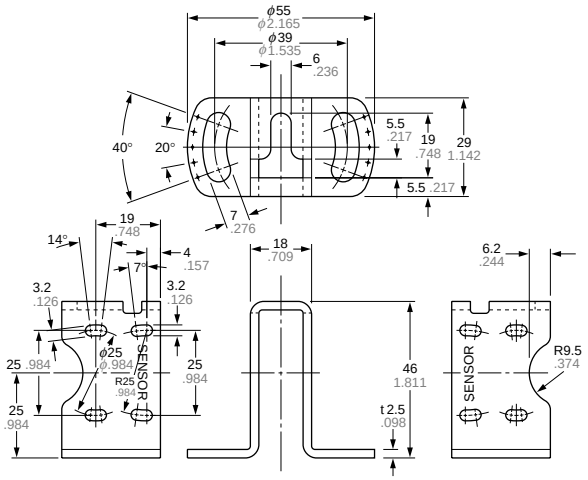
Mounting drawing



DIMENSIONS (Unit: mm inch)

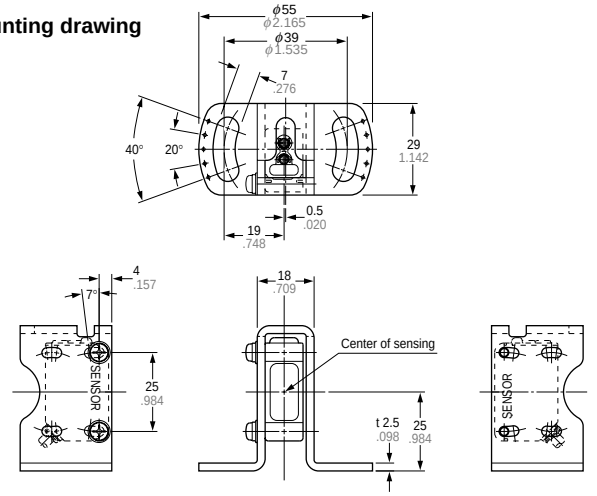
UZA823

Sensor mounting bracket (option)



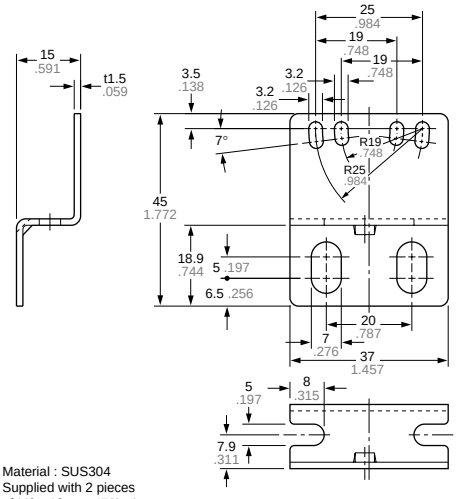
Material : SUS304
Supplied with 2 pieces
of M3×14mm .551inch screws.

Mounting drawing



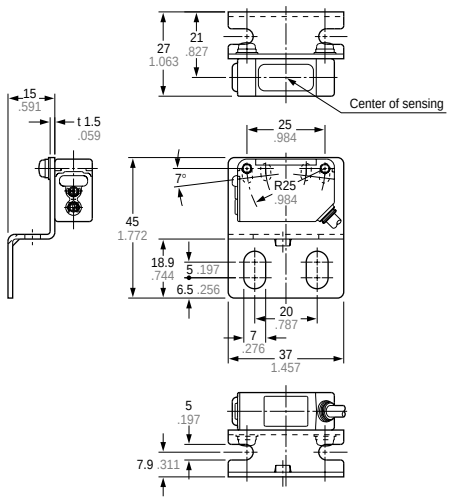
UZA824

Sensor mounting bracket (option)



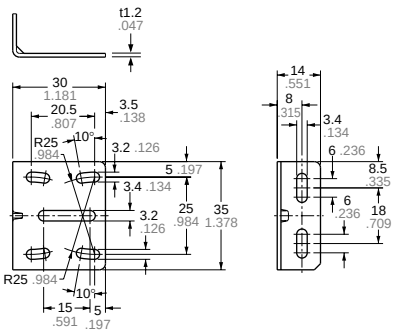
Material : SUS304
Supplied with 2 pieces
of M3×12mm .472inch screws.

Mounting drawing



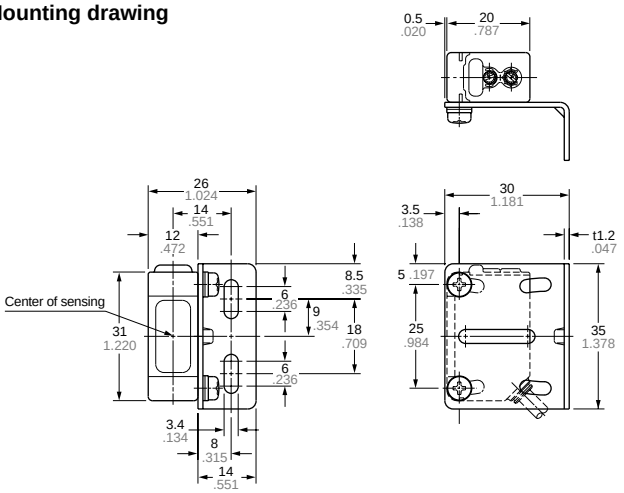
UZA825

Sensor mounting bracket (option)



Material : SUS304
Supplied with 2 pieces
of M3×12mm .472inch screws.

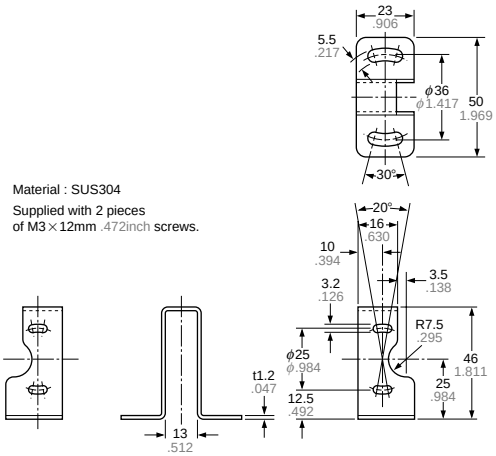
Mounting drawing



DIMENSIONS (Unit: mm inch)

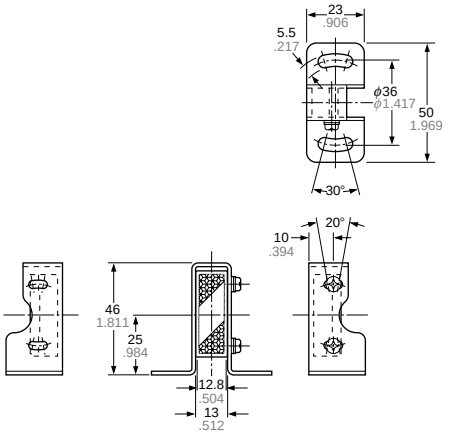
UZZ1100

Mounting bracket for **UZZ110** reflector (option)



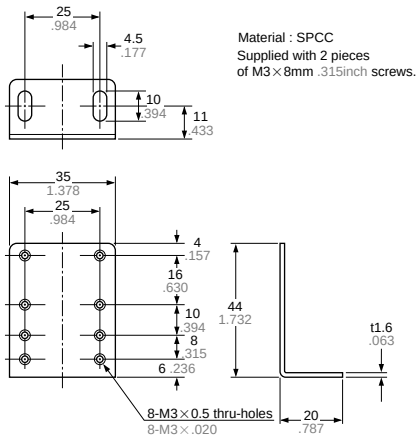
Material : SUS304
Supplied with 2 pieces
of M3×12mm .472inch screws.

Mounting drawing



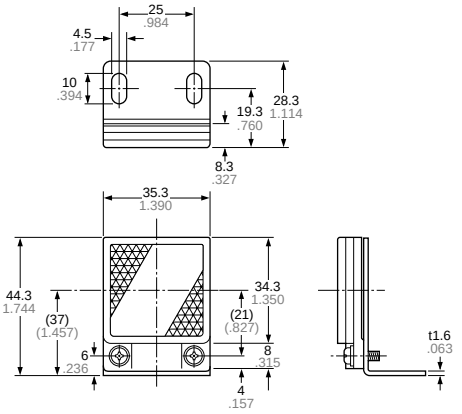
UZZ1110

Mounting bracket for **UZZ111** reflector (option)



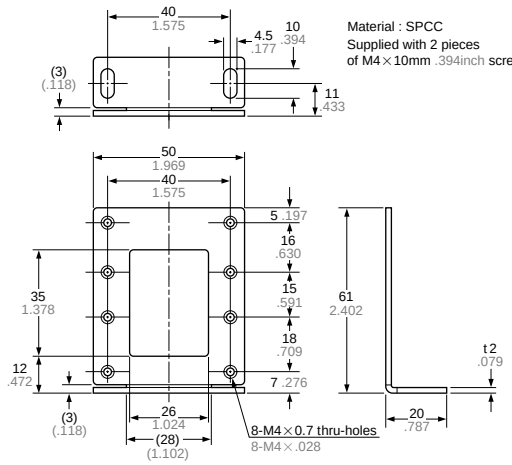
Material : SPCC
Supplied with 2 pieces
of M3×8mm .315inch screws.

Mounting drawing



UZZ1120

Mounting bracket for **UZZ112** reflector (option)



Material : SPCC
Supplied with 2 pieces
of M4×10mm .394inch screws.

Mounting drawing