



MEGA POWER

Long-range detection twice as far as conventional models

EASY ADJUSTMENT

The front light-receiving indicator allows easy optical axis alignment

EASY INSTALLATION

A one-touch mounting bracket makes screws unnecessary











Dramatically improved performance and ease-of-use

MEGA POWER

High-Power Dual LED-type

High-power thrubeam type PZ-G52



Detecting distance: 40 m



4 times* longer detecting distance 2 times* faster response speed

* Compared with our conventional models

4-element red LED-type

Thrubeam type PZ-G51



Reflective type PZ-G41



Retro-reflective type PZ-G61



Detecting distance: 20 m

Detecting distance: 1 m



[Self-contained Threaded Sensors PZ-G Series]



2 times* longer detecting distance 2 times* faster response speed

The high-intensity 4-element red LED has greatly improved the detecting distance. The bright beam spot makes it easy to align the optical axis.

A 4-element LED is used in upper-level fibre sensors because its wavelength can be visibly seen by the human eye and there is minimal change in intensity over time.

* Compared with our conventional models



EASY ADJUSTMENT

Alignment indicator takes the guesswork out of long distance sensor setup

Has your receiver been knocked out of alignment? How can you tell? Thrubeam PZ-G models feature a bright red LED indicator that alerts you the instant proper alignment has been obtained. This simple yet crucial feature allows you to troubleshoot setup and run-time issues quickly, before they can escalate into major problems.



Laser Marked tags eliminate possible contamination

All information (model#, serial#, etc.) is laser marked directly onto the sensor housing. There are no labels, inks or paints to peel or chip off into your products.

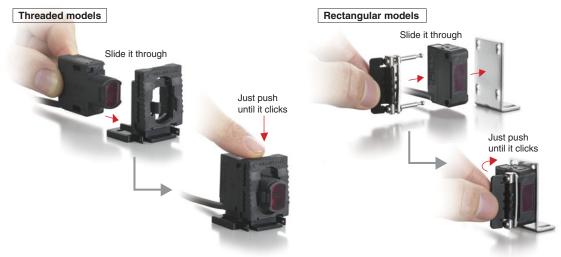


Easy-to-see blue trimmer Enhances operation efficiency

EASY INSTALLATION

One-Touch mounting brackets cut installation time

Our unique one-touch brackets can save you and your customers considerable time during installation or replacement.



A variety of mounting styles are available to adapt to your application.



Enhanced user-friendliness

Standard M8 and M12 quick-disconnects make replacement easier

The PZ-G features a standard pin-out, which allows it to be a drop-in replacement with existing wiring.



Our oil-resistant cable ensures reliable operation in an oily environment

In addition to the standard PVC cable, an oil-resistant PUR cable is available for use in harsh environments.



PUR: Polyurethane

19 Mounting bracket types provide a variety of mounting methods

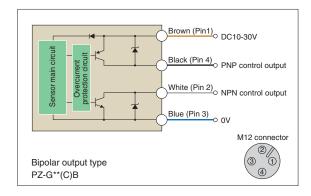
A bracket can be selected according to the installation conditions. 19 types, including a one-touch bracket, are available.



The mounting brackets shown above are only part of the lineup

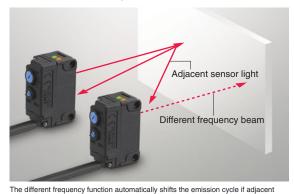
Bipolar output (NPN+PNP) compatible with any input device

Threaded models feature bipolar output (NPN and PNP), eliminating the need to stock sensors for both outputs.



The interference suppression function prevents interference from nearby units

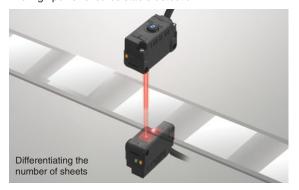
With thrubeam models, up to two sensors can be mounted in close proximity. Four sensors can be used by alternating the transmitter/ receiver position.



The different frequency function automatically snifts the emission cycle if adjacent sensor light is received by the receiver.

High-speed targets can be detected at a response speed of up to 500 µs

A high-speed response of up to $500~\mu s$, twice as fast as our conventional models, ensures detection on a high-speed line. The high power ensures stable detection.



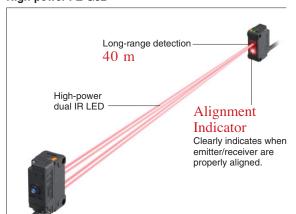
Model features



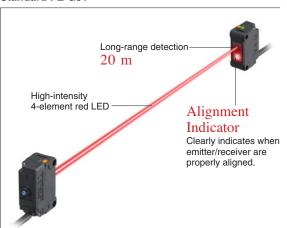


Thrubeam — The long-range high-power beam makes it easy to align the optical axis

High-power PZ-G52

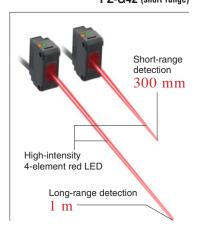


Standard PZ-G51

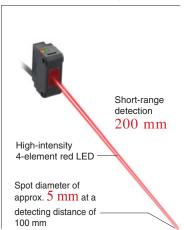


Reflective — The visible spot makes it easy to align the optical axis

Diffuse reflective PZ-G41 (long-range) PZ-G42 (short-range)



Narrow-view reflective type PZ-G101

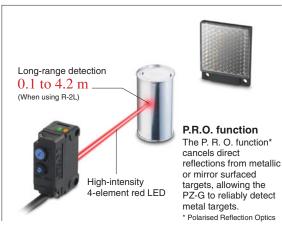


Definite reflective type PZ-G102

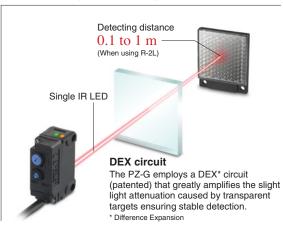


Retro-reflective — High-power long-range detection

Standard PZ-G61 (with P. R. O. function)

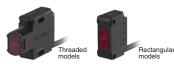


Transparent object detection type PZ-G62



Sensor head lineup / Model variations

Sensor head lineup

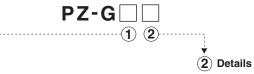


				Me	odel variation	ons	Light source		
Туре		Design	Detecting distance	NPN	PNP	Bipolar (NPN+PNP)	(LED)	Cable*1	
				PZ-G51N	PZ-G51P			Cable (2 m)	
		Rectangular		PZ-G51CN	PZ-G51CP	_		M8 connector	
	Standard			PZ-G51EN	PZ-G51EP	_	Red	M12 pigtail quick disconnect	
		-	20 m	_	_	PZ-G51B	1	Cable (2 m)	
		Threaded	20 111	_	_	PZ-G51CB		M12 connector	
Thrubeam				PZ-G52N	PZ-G52P			Cable (2 m)	
		Rectangular		PZ-G52CN	PZ-G52CP			M8 connector	
	High-			PZ-G52EN	PZ-G52EP	_	Infrared x 2	M12 pigtail quick disconnect	
	power			_	_	PZ-G52B		Cable (2 m)	
		Threaded	40 m	_	_	PZ-G52CB		M12 connector	
				PZ-G41N	PZ-G41P	_		Cable (2 m)	
	Diffuse	Rectangular		PZ-G41CN	PZ-G41CP	_	1	M8 connector	
	reflective long-range			PZ-G41EN	PZ-G41EP			M12 pigtail quick disconnect	
		long-range			_	_	PZ-G41B	-	Cable (2 m)
		Threaded	1 m		_	PZ-G41CB		M12 connector	
				PZ-G42N	PZ-G42P	_		Cable (2 m)	
	Diffuse	Rectangular		PZ-G42CN	PZ-G42CP	_	-	M8 connector	
	reflective	Tiootai igalai		PZ-G42EN			-	M12 pigtail quick disconnect	
	short-range			-		PZ-G42B		Cable (2 m)	
			300 mm	_	_	PZ-G42CB	-	M12 connector	
Define the same				PZ-G101N	PZ-G101P	_	Red	Cable (2 m)	
Reflective	Narrow- view	Rectangular			PZ-G101CP			M8 connector	
		Tiootai igalai			PZ-G101EP			M12 pigtail quick disconnect	
	reflective			- COULT		PZ-G101B		Cable (2 m)	
	1011001110	Threaded	200 mm			PZ-G101CB	-	M12 connector	
				PZ-G102N	PZ-G102P	12-010100	-	Cable (2 m)	
		Rectangular			PZ-G102F		-	M8 connector	
	Definite	Jotai igalai			PZ-G102CF		-	M12 pigtail quick disconnect	
	reflective			1 Z-CIUZEIN	1 2-0102EF	PZ-G102B	-	Cable (2 m)	
		Threaded	5 to 45 mm	$\overline{}$	-	PZ-G102B PZ-G102CB	-	M12 connector	
				PZ-G61N	PZ-G61P	PZ-G 102CB		Cable (2 m)	
	Long-	Poetanguler		PZ-G610N	PZ-G61CP		-	M8 connector	
	range	Rectangular		PZ-G61CN PZ-G61EN	PZ-G61CP		Red	M12 pigtail quick disconnect	
	(with P. R. O.			FZ-GOTEN	1 Z-GOTEP	PZ-G61B	I leu		
	function)	Threaded	0.1 to 4.2 m (when using R-2L)				-	Cable (2 m)	
Retro-						PZ-G61CB		M12 connector	
reflective*2		Rectangular		PZ-G62N	PZ-G62P	_	-	Cable (2 m)	
	Transparent	rieciangulai		PZ-G62CN	PZ-G62CP			M8 connector	
	object			PZ-G62EN	PZ-G62EP		Infrared	M12 pigtail quick disconnect	
	detection	Threaded	0.1 to 1 m(when using R-2L)			PZ-G62B		Cable (2 m)	
			<u> </u>			PZ-G62CB		M12 connector	

^{*1} Cable sold separately for connector models *2 Reflector sold separately

Model variations

1 Detection method



Reference	Refe	rence No. description			
No.	Detection method	Details			
51	Thrubeam type	Standard			
52	Thrubeam type	High-power			
41	Deflective to a	Diffuse reflective long range			
42		Diffuse reflective short range			
101	Reflective type	Narrow-view			
102		Definite reflective			
61	Retro-reflective	Long range (with P. R. O. function)			
62	type	Transparent object detection (without P. R. O. function)			

Reference		Reference letter descri	ption	
letter	Details	Output		
N		2 m cable with a	NPN	
Р		loose wire end	PNP	
CN	Rectangular	M8 connector	NPN	
СР	models	IVIO COTTIECTO	PNP	
EN NEW		300-mm cable + M12	NPN	
EP NEW		connector	PNP	
В	Threaded models	2 m cable with a loose wire end	Bipolar (NPN+PNP)	
СВ	models	M12 connector	(NPN+PNP)	

Options

Brackets



































Rectangular models

Model	For use with*2	Details*1	Accessories	Material	Weight
PZ-B41A		L-shaped mounting bracket (standard)			Approx. 15 g
PZ-B01A	1	L-shaped mounting bracket (small)			Approx. 10 g
PZ-B61		L-shaped mounting bracket (protective)			Approx. 90 g
PZ-B21A	Cable models	Side-mounting bracket (vertical L)	M3 screw,	Mounting bracket: SUS304	Approx. 15 g
PZ-B22A		Side-mounting bracket (vertical R)	P=0.5xL12 (2 pieces)	Screw: Stainless	Approx. 15 g
PZ-B31		Side-mounting bracket (landscape L)			Approx. 20 g
PZ-B32		Side-mounting bracket (landscape R)			Approx. 20 g
PZ-B11		Landscape mounting bracket			Approx. 20 g
PZ-B81		One-touch mounting bracket	Stopper	Mounting bracket: SUS304 Stopper: SUS303, Polyacetal	Approx. 20 g
PZ-B02		L-shaped mounting bracket			Approx. 20 g
PZ-B23	Connector models	Side-mounting bracket (vertical L)	M3 screw,	Mounting bracket: SUS304 Screw: Stainless	Approx. 25 g
PZ-B24	(M8 L-shaped	Side-mounting bracket (vertical R)	P=0.5xL12 (2 pieces)	Sciew. Stairliess	Approx. 25 g
PZ-B83	cable only)	One-touch mounting bracket	Stopper Mounting bracket: SUS304 Stopper: SUS303, Polyacetal		Approx. 30 g
OP-84220	Cable models Connector models	Stopper for one-touch mounting brackets (PZ-B81/B83) (without an L-shaped bracket)	_	SUS303, Polyacetal	Approx. 10 g

^{*&#}x27;One piece is included. *2Not applicable for threaded models. PZ-V/M mounting brackets other than specified in this table cannot be used for PZ-G Series.

Threaded models

Model	For use with:	Details*1	Accessories*2	Material	Weight
PZ-B03		L-shaped mounting bracket A (standard)		SUS304	Approx. 25 g
PZ-B04		L-shaped mounting bracket (angle-adjustable)		SUS304	Approx. 35 g
PZ-B25	Cable models	Side-mounting bracket (vertical)		SUS304	Approx. 30 g
PZ-B82*3	Connector models	One-touch mounting bracket		Base: Polyacetal Slide: Glass-reinforced polyamide	Approx. 10 g
OP-84225		M18 nut (2 pieces)		Glass-reinforced PBT	Approx. 5 g

^{*&#}x27;One piece is included (except OP-84225). *2One M18 nut is supplied with threaded models. *2When using PZ-B82, OP-85135 attachment cannot be used.

Rectangular/Threaded models

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Model	For use with:	Details*	Accessories	Material	Weight					
PZ-S10A	Cable models	Free adjuster tool (L=55 to 100 mm) Applicable mounting bracket: Side-mounting bracket (PZ-B21A,B22A,B31,B32,B23,B24,B25)	Binding band (2 pieces)	Shaft: SUS303	Approx. 105 g					
PZ-S20A	Connector models	Free adjuster tool (L=55 to 200 mm) Applicable mounting bracket: Side-mounting bracket (PZ-B21A,B22A,B31,B32,B23,B24,B25)	Plate washer (1 piece)	Plastic part: Polyamide	Approx. 165 g					

^{*} One piece is included.

Options

Attachments











Model	For use with:	th: Description		Material	Weight
OP-85136	Thrubeam (Rectangular models)	Attachment A (for attaching a slit or a polarisation filter)	2 sets	Polyacetal (POM)	Approx. 2 g
OP-85135*1	Thrubeam (threaded models)	Attachment B (for attaching a slit or a polarisation filter)	2 sets	Polyacetal (POM)	Approx. 1 g
OP-85137	Thrubeam (Rectangular/threaded models)	Slit (0.5 mm, 1 mm, 2 mm)	3 sets*2	Polyvinyl chloride (PVC)	Approx. 1 g
OP-85138	Thrubeam (red LED models)	Polarisation filter A (for the red LED type)	2 pieces	Triacetate (TAC) Polyvinyl alcohol (PVA)	Approx. 1 g
OP-85139	Thrubeam (IR LED models)	Polarisation filter B (for the IR LED type)	3 pieces*2	Acetate plastic	Approx. 1 g

^{*1} OP-85135 cannot be attached when using PZ-B82 one-touch mounting bracket. *2For the PZ-G52, OP-85137 includes 3 sets for the 2 transmitting points and 1 receiving point.

Specifications when an attachment is used

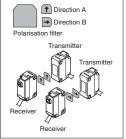
Sensor model	Slit (mm)	Polarisation filter	Detecting distance (m)
	0.5 x 5	_	1
	1 x 5	_	2.5
	2 x 5	_	5
PZ-G51	_	Attached*	9
	0.5 x 5	Attached*	0.5
	1 x 5	Attached*	1.5
	2 x 5	Attached*	3
	0.5 x 5	_	2.5
	1 x 5	_	5.5
	2 x 5	_	10
PZ-G52	_	Attached*	15
	0.5 x 5	Attached*	1
	1 x 5	Attached*	2
	2 x 5	Attached*	5

 $^{^{\}star}$ When attaching to make the polarisation direction of the transmitter and the receiver same.

[Usage example 1]

Suppressing interference between two thrubeam sensors

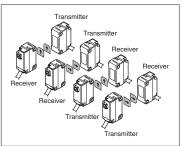
Interference between thrubeam sensors can be suppressed with polarisation filters. A polarisation filter's characteristic depends on the direction and notch in which it is set. If the polarisation direction of the filters attached to the transmitter and the receiver is the same, the beam can be received. If the direction of the filter is changed by 90 degrees, however, the beam cannot be received. Using this restriction, interference can be suppressed with polarisation filters as



[Usage example 2]

Suppressing interference between four thrubeam-type sensors

With another set of sensors set as in Usage Example 1, interference between four sensors can be suppressed by alternating the positions of the transmitters and the receivers. Be sure to pay attention to the direction of the notches on the filters.



Reflectors









		Detecting of		N			
Model	For use with:	12-001	PZ-G62 Transparent object detection	Description	Number	Material	Weight
OP-84219		0.1 to 4.2	0.1 to 1	Reflector (R-2L)		Reflective area: Acrylic, Base: ABS	Approx. 20 g
OP-96436 (R-3)	Retro-reflective	0.1 to 2.9	0.1 to 0.4	Reflector (R-3)	1 piece	Reflective area: Acrylic, Base: ABS	Approx. 10 g
R-5	models	0.1 to 2.5	0.1 to 0.5	Reflector (R-5)	1 piece	Reflective area: Acrylic, Base: ABS	Approx. 5 g
OP-84221		0.2 to 0.7		Reflective tape		Surface: Acrylic, Cube: Polycarbonate	Approx. 1 g

^{*} Remove the protective sheets on both sides of the polarisation filter before use. * Adjust the sensitivity if interference occurs even with polarisation filters.

Cables / Input/output circuits

Connector cables









M8 connector

	Cabla		Sensor co	nnection	Opposite c	onnection		
Model	Cable material	Description	Connector size	Design	Connector size	Design	Cable length (m)	Weight
OP-73864			M8	Straight	_	Loose wires	2	Approx. 55 g
OP-73865	D)/C	PVC Connector – loose wires	M8	Straight	_	Loose wires	10	Approx. 220 g
OP-85497	PVC		M8	L-shaped	_	Loose wires	2	Approx. 55 g
OP-85498	1	Connector - connector	M8	Straight	M8	Straight	2	Approx. 55 g
OP-85499			M8	Straight	_	Loose wires	2	Approx. 65 g
OP-85500]	Connector – loose wires	M8	Straight	_	Loose wires	10	Approx. 310 g
OP-85584	1	Connector – loose wires	M8	L-shaped	_	Loose wires	2	Approx. 65 g
OP-85585			M8	L-shaped	_	Loose wires	10	Approx. 310 g
OP-85501	PUR		M8	Straight	M8	Straight	2	Approx. 75 g
OP-85586			M8	L-shaped	M8	Straight	2	Approx. 75 g
OP-85509	1	Connector – connector	M8	Straight	M12	Straight	2	Approx. 80 g
OP-85510		Connector - Connector	M8	Straight	M12	Straight	5	Approx. 165 g
OP-85587			M8	L-shaped	M12	Straight	2	Approx. 80 g
OP-85588	1		M8	L-shaped	M12	Straight	5	Approx. 170 g

* One piece is included.







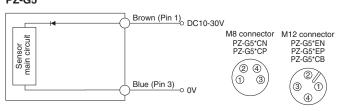
M12 connector

	0-1-1-		Sensor co	Sensor connection		onnection			
Model	Cable material	Description	Connector size	Design	Connector size	Design	Cable length (m)	Weight	
OP-75721			M12	Straight	_	Loose wires	2	Approx. 65 g	
OP-85502		PVC Connector – loose wires Connector – connector	M12	Straight	_	Loose wires	10	Approx. 230 g	
OP-75722	PVC		M12	L-shaped	_	Loose wires	2	Approx. 65 g	
OP-85503	1		M12	Straight	M12	Straight	2	Approx. 70 g	
OP-85504	1		M12	Straight	M12	Straight	5	Approx. 130 g	
OP-85505		Connector – loose wires	M12	Straight	_	Loose wires	2	Approx. 75 g	
OP-85506	DUD.	Connector – loose wires	M12	Straight	_	Loose wires	10	Approx. 320 g	
OP-85507	PUR	Connector connector	M12	Straight	M12	Straight	2	Approx. 90 g	
OP-85508	1	Connector – connector	M12	Straight	M12	Straight	5	Approx. 175 g	

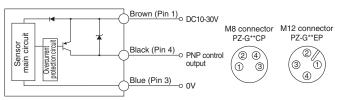
* One piece is included.

Input/output circuits

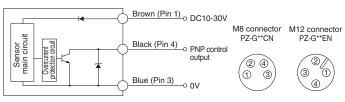
Thrubeam transmitter PZ-G5*



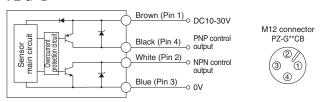
PNP output (thrubeam receiver, reflective, retro-reflective) PZ-G**P



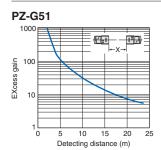
NPN output (thrubeam receiver, reflective, retro-reflective) PZ-G**N

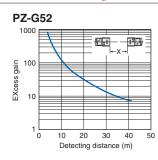


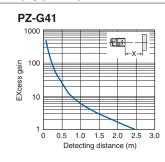
Bipolar output (thrubeam receiver, reflective, retro-reflective) PZ-G**B

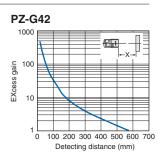


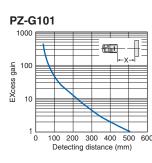
Receiver excess gain vs. detecting distance (Typical)

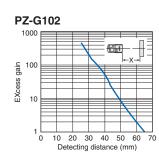


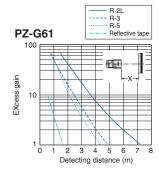


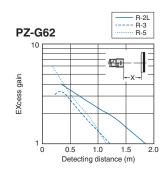




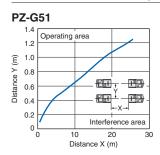


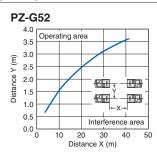


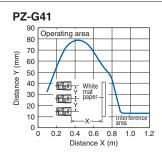


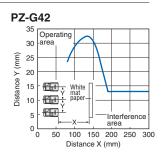


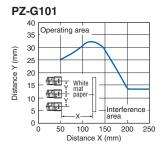
Interference area (Typical)





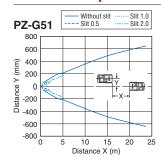


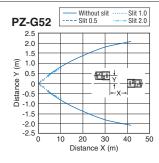


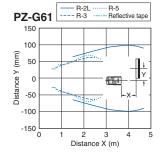


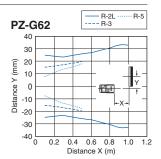
Note: PZ-G102/G61/G62 can be used while 3 units are mounted in close proximity to each other without mutual interference.

Parallel displacement of optical axis (Typical)

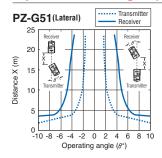


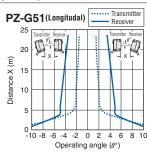


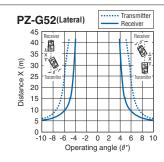


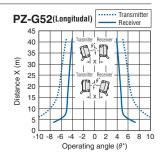


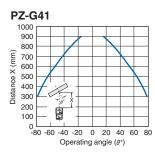
Optical axis angle (Typical)

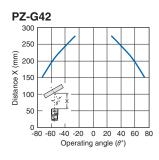


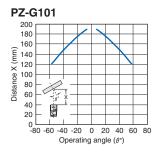


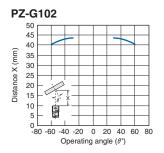


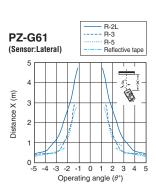


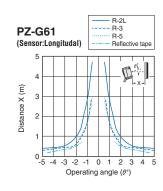


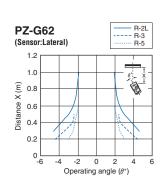


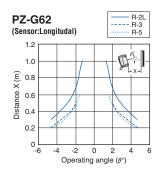




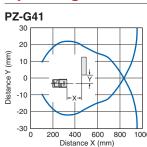


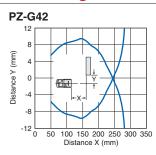


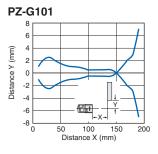


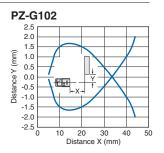


Operating distance vs. detecting distance (Typical)









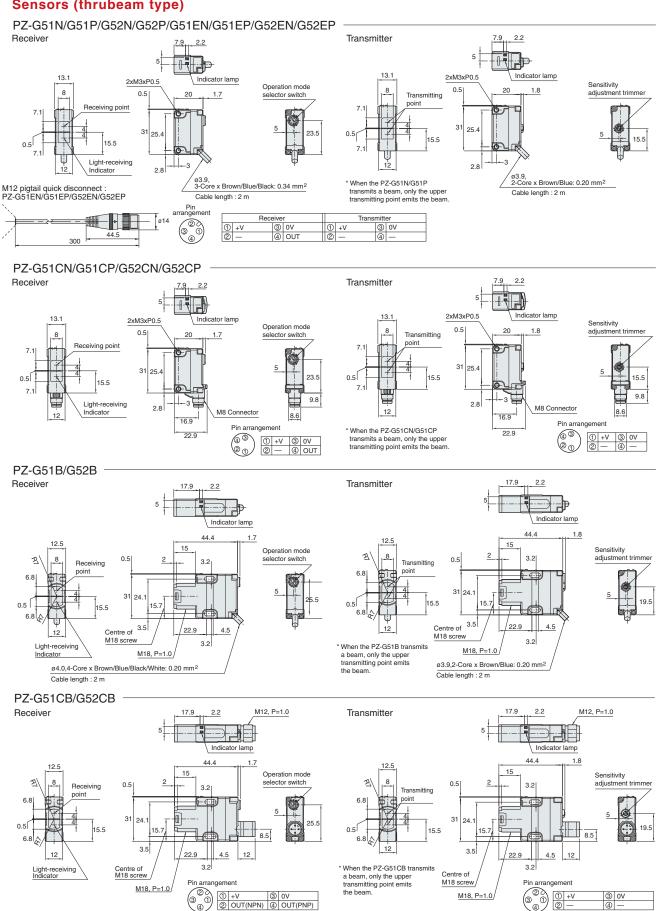


										c 744 us
Madala			Thru	beam		Diffuse F	Reflective		Retro-ret	lective*2
Models Design	Cable type	Output	Standard	High-power	Long-range	Short-range	Narrow-view reflective	Definite reflective	Long-range (with P.R.O. function)	Transparent object detection
		NPN	PZ-G51N	PZ-G52N	PZ-G41N	PZ-G42N	PZ-G101N	PZ-G102N	PZ-G61N	PZ-G62N
	Cable (2m)	PNP	PZ-G51P	PZ-G52P	PZ-G41P	PZ-G42P	PZ-G101P	PZ-G102P	PZ-G61P	PZ-G62P
		NPN	PZ-G51CN	PZ-G52CN	PZ-G41CN	PZ-G42CN	PZ-G101CN	PZ-G102CN	PZ-G61CN	PZ-G62CN
Rectangular	M8 connector	PNP	PZ-G51CP	PZ-G52CP	PZ-G41CP	PZ-G42CP	PZ-G101CP	PZ-G102CP	PZ-G61CP	PZ-G62CP
	M12 nistoil	NPN NEW	PZ-G51EN	PZ-G52EN	PZ-G41EN	PZ-G42EN	PZ-G101EN	PZ-G102EN	PZ-G61EN	PZ-G62EN
	M12 pigtail quick disconnect	PNP NEW	PZ-G51EP	PZ-G52EP	PZ-G41EP	PZ-G42EP	PZ-G101EP	PZ-G102EP	PZ-G61EP	PZ-G62EP
	Cable (2m)	Bipolar	PZ-G51B	PZ-G52B	PZ-G41B	PZ-G42B	PZ-G101B	PZ-G102B	PZ-G61B	PZ-G62B
Threaded	M12 connector	(NPN+PNP)	PZ-G51CB	PZ-G52CB	PZ-G41CB	PZ-G42CB	PZ-G101CB	PZ-G102CB	PZ-G61CB	PZ-G62CB
		, ,			1 m	300 mm			0.1 to 4.2 m	0.1 to 1 m
Detecting d	listance*1		20 m	40 m	(When detecting 30 x 30 cm white paper)		200 mm	5 to 45 mm	(When R-2L reflector is used)	(When R-2L reflector is used)
Spot diameter							Approx. 5 mm dia. (At a detecting distance of 100 mm)	Approx. 2 mm dia. (At a detecting distance of 40 mm)		
Light source			Red LED	Infrared LED x 2			Red LED			Infrared LED
Sensitivity	adjustment					1-turn trim	mer (230°)			
Response time						500) μs			
Operation mode					LIGHT-ON/DARK-ON (switch-selectable)					
Indicators (LED)			T: Power (orange LED) R: Output (orange LED) Stable operation (green LED) Light receiving (red LED)							
Control out	put			Open	collector output	, 30 V max., 100) mA max., Resi	dual voltage: 1 V	/ max.	
Protection	circuit				Reversed po	larity, overcurre	nt protection, su	rge absorber		
	Power supply				10 to	30 VDC includir	ng Ripple ±10%	(P-P)		
Rating	Current consu		T: 20 mA max. R: 28 mA max.	T: 25 mA max. R: 28 mA max.				A max.		
	Enclosure ratio	ng	IEC, IP67 / NEMA: 4x, 6, 12 / DIN: IP69K							
	Ambient light		Incandescent lamp: 5,000 lux max., Sunlight: 20,000 lux max.							
Environmental	Ambient temp					-20 to 55°C,	No freezing			
resistance	Relative humi	dity				35 to 85%, No	condensation			
	Vibration		10 to 55 Hz, 1.5 mm double amplitude in the X, Y, and Z directions, 2 hours respectively							
	Shock				1000 m	n/s ² 6 times in th	ne X, Y, and Z di	rections		
Interferenc	e suppression		(When polar	2 units isation filters ached)		(with the	Up to 2 automatic diffe	2 units erent frequency f	unction)	
	Housing, M18 (threaded mod					Glass-fibre r	einforced PBT			
Material	Lens cover				Polyaryl	ate (PAR)			Acrylic (PMMA)	Polyarylate (PAR)
	Trimmer				Gl	ass-fibre reinfor	ced polyamide (PA)		
	Case connection	on		Scre	ew: Steel, zinc-n	ickel plated, Pac	king: Nitrile-but	adiene rubber (N	IBR)	
	Cable (cable mod quick disconnect					Polyvinyl ch	loride (PVC)			
	Connector (pig disconnect typ			Brass-r	nickel plated, Po	lybutyleneterepl	nthalate (PBT), F	Polyvinyl chloride	e (PVC)	
Tightening	torque			Threaded m	-	r models (Mount 8 part): 1.0 N·m	. ,	0.5 N·m max. ted hole part): 0	.5 N·m max.	
Accessorie	S *2		Inst					. ,	er threaded mod	dels)
Accessories*2 Weight				Rectangula	r cable models: Squ Rectangular M cable models: A	Approx. 60 g (T lare connector n 12 pigtail quick	hrubeam-model nodels: Approx. disconnect mod rubeam-models	s transmitter: Ap 10 g el: Approx. 30 g transmitter: App	oprox. 50 g)	-7

^{*1} Detecting distance at the maximum sensitivity.

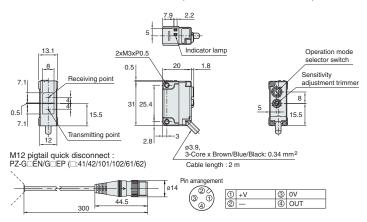
*2 Cable sold separately for connector models / pigtail quick disconnect models. Reflector sold separately for retro-reflective models.

Sensors (thrubeam type)

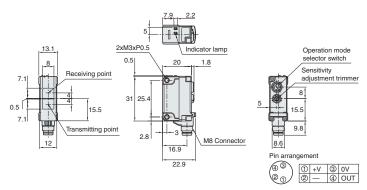


Sensors (reflective / polarised retro-reflective type)

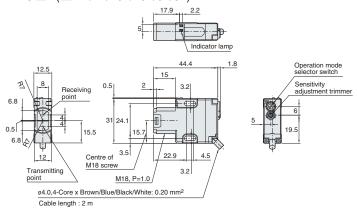
PZ-G N/G P/G EN/G EP(:41/42/101/102/61/62) -



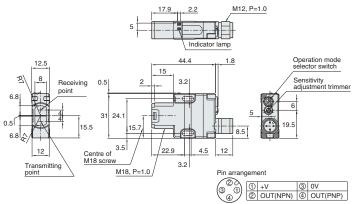
PZ-G CN/G CP(:41/42/101/102/61/62)



PZ-G B(:41/42/101/102/61/62)

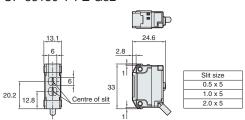


PZ-G CB(:41/42/101/102/61/62)

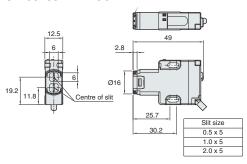


Attachments (optional)

OP-85136 + PZ-G52-

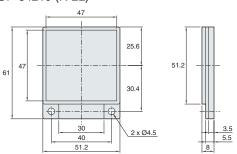


OP-85135 + PZ-G52B

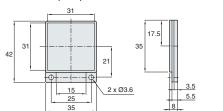


Reflectors (optional)

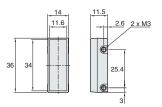
OP-84219 (R-2L) -



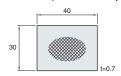
OP-96436 (R-3)

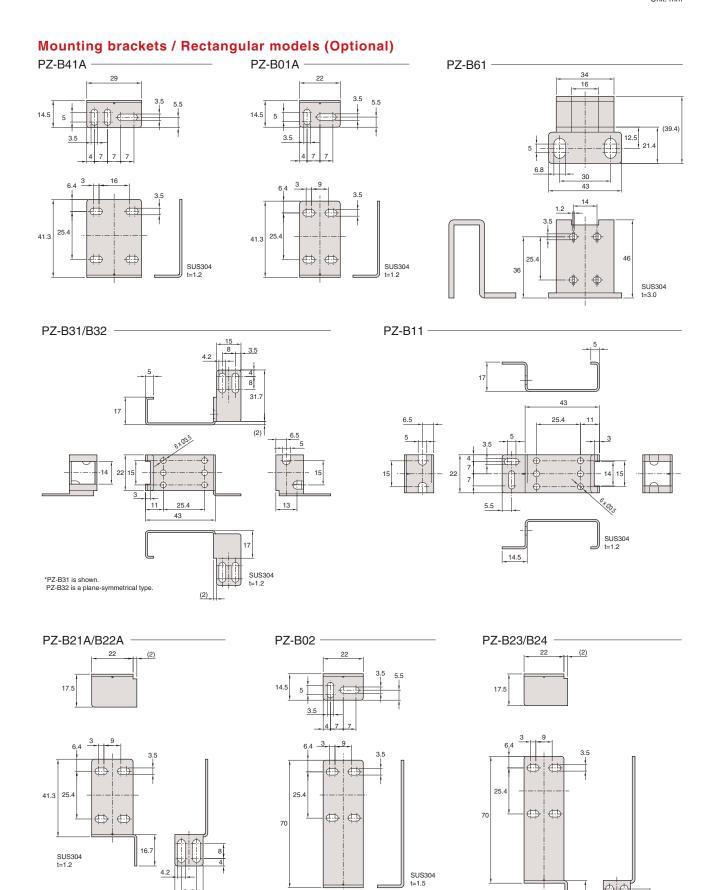


R-5



OP-84221 (reflective tape)





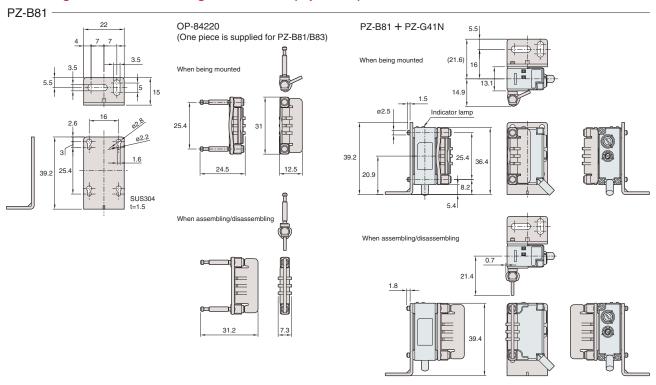
*PZ-B21A is shown. PZ-B22A is a plane-symmetrical type.

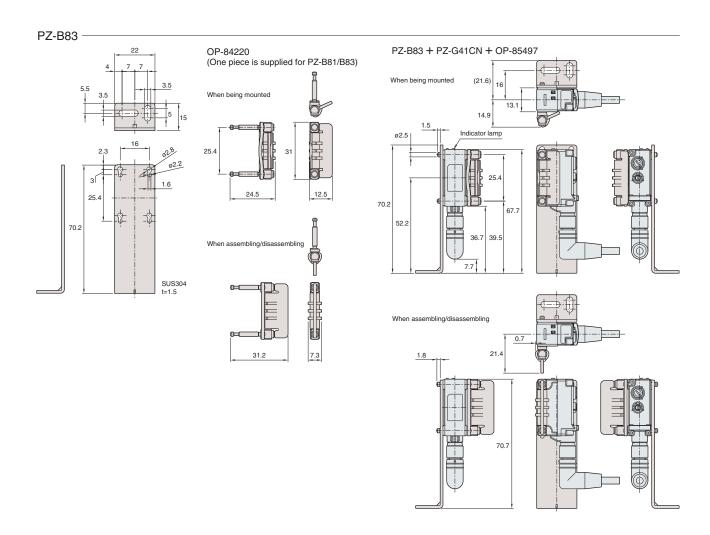
16.7

*PZ-B23 is shown. PZ-B24 is a plane-symmetrical type. SUS304 t=1.5

<u>8</u> 15

Mounting brackets / Rectangular models (Optional)

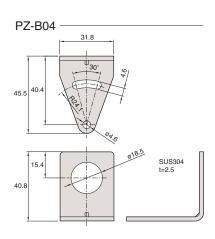


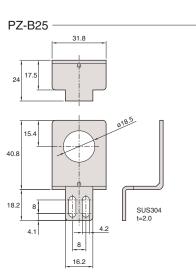


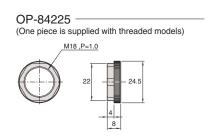
Mounting brackets / Threaded models (Optional)

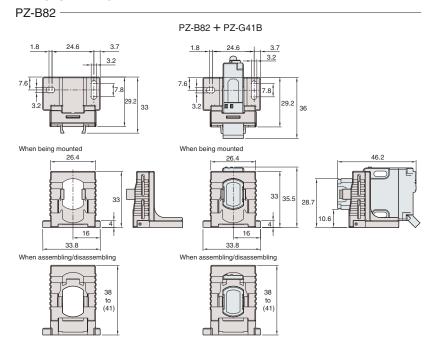
t=2.0

PZ-B03 6.5 3.5 3.9 018.5 40.8 SUS304

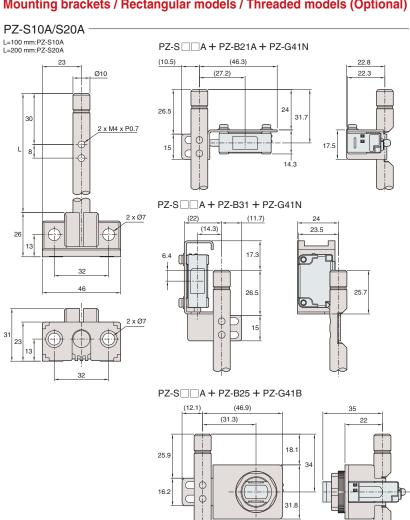




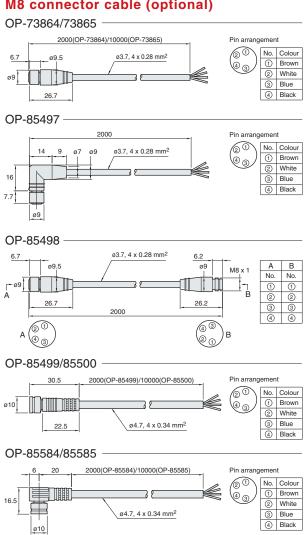


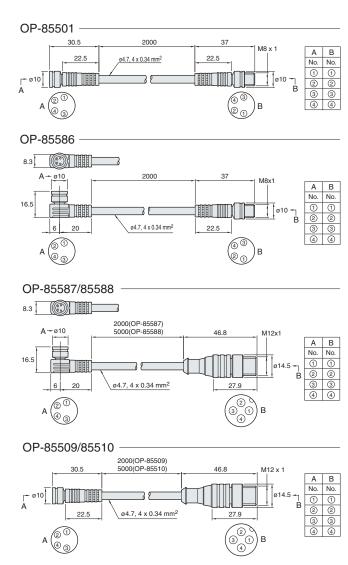


Mounting brackets / Rectangular models / Threaded models (Optional)



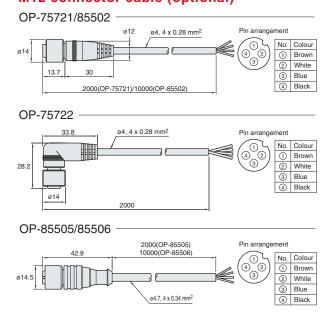
M8 connector cable (optional)

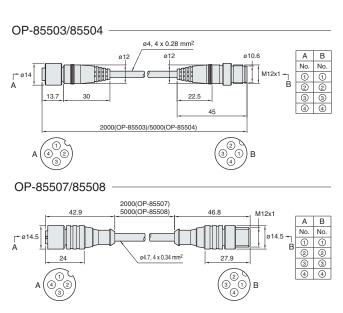




M12 connector cable (optional)

8.3





MEMO

Background Suppression Model Unaffected by Colour!

Self-contained Photoelectric Sensors

PZ-V Series



Features

- Intelligent reflective type unaffected by a target's colour or angle
- Digital display
- High-power custom red LED (Except for PZ-V71)
- High-intensity operation indicator



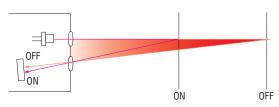


Here's How

PSD (Position-Sensitive Detector)

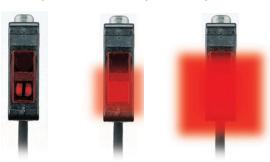
The target distance is detected according to the angle of the reflected light beam.

- · Unaffected by a highly reflective target background
- · Stable detection of targets with colours and materials of varying reflectance
- Highly accurate detection of minute objects



A.P.R. circuit (Automatic Power Reinforcement)

Stable detection is possible due to the A.P.R. circuit which automatically adjusts the amount of light emitted according to the colour and angle of the target.



Sensor head lineup

Туре	Adjustment	Configuration	Detecting distance	Model		Connector	Cable
				NPN	PNP	Connector	Cable
Intelligent reflective	PUSH Auto			PZ-V71	PZ-V71P	_	2 m
				PZ-V72	PZ-V72P	M8 connector	0.13 m
			900 mm	PZ-V73	PZ-V73P	M12 connector	0.3 m
				PZ-V75 1.	_	_	2 m
				PZ-V31	PZ-V31P	_	2 m
				PZ-V32	PZ-V32P	M8 connector	0.13 m
			300 mm	PZ-V33	PZ-V33P	M12 connector	0.3 m
				PZ-V35 1.	PZ-V35P 1.	_	2 m
				PZ-V11	PZ-V11P	_	2 m
				PZ-V12	PZ-V12P	M8 connector	0.13 m
			100 mm	PZ-V13	PZ-V13P	M12 connector	0.3 m
				PZ-V15 1.	_		2 m

1. Different frequency type

Specifications are subject to change without notice.

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