

Pneumatic Components / Sensors



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PCIO Communication Unit 6-34

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (QM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Suction / Rubber Cylinder / Pad / Rubber Manifolds

By Industry

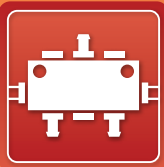
Logistics / Packaging / Steel Works / Shipbuilding / Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Pneumatic Components

Manifold



Air circuit can be branched to two or more.

6-3

Regulator/Manual Air Valve Push Button/Manual Air Valve Push slide Button



Used for air pressure regulations and switches.

6-11

Light Weight Plastic Manifold



Air circuit can be branched to two or more.

6-4

Flow Controller



Speed of air cylinder can be adjusted.

6-12

Fitting



Used for connection of chuck device and air tube.

6-5

Valve Joint (Quick Exhaust Valve/Finger Valve)



Used to control air flow.

6-13

Gasket/Air Coupler/Micro Coupler



Used for pipe connection of chuck device.

6-8

Mini Pressure Regulator



Grips work piece gently by decreasing gripping force.

6-14

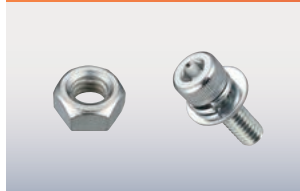
Tube/Sleeve



Used for pipe connection of chuck device. The product is flexible and can follow hard action of robot.

6-9

Bolt/Nut/Washer



Use for fixing parts.

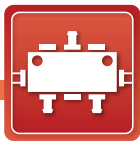
6-15

Cable Ties/Cable Tie mount/Tube Cutter



Use to secure your tubing on plate or jungle gym.

6-10



Manifold

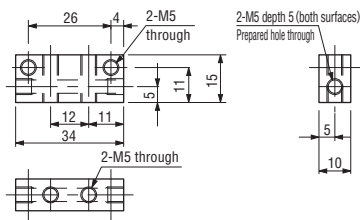
Air circuit is branched off in two or more directions.



Manifold • mini

Order code No.	122034
TYPE	MM-6P

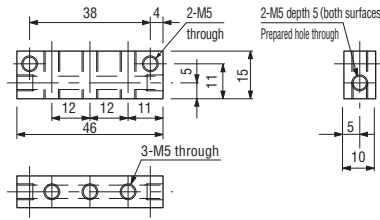
● Weight : 10g ● Mounting : M5/P26



Manifold mini

Order code No.	122035
TYPE	MM-8P

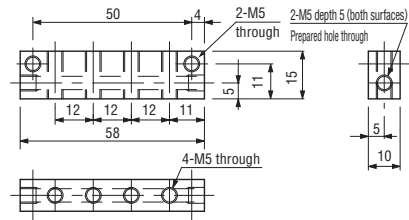
● Weight : 14g ● Mounting : M5/P38



Manifold mini

Order code No.	122036
TYPE	MM-10P

● Weight : 17g ● Mounting : M5/P50



Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

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Grippers

Rubber Material / Grip Pad

Section

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

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Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics - Palletizing / Sheet Metal - Stamping - Metal Fabrication

Assembling Tools

Tool / Jig

Information

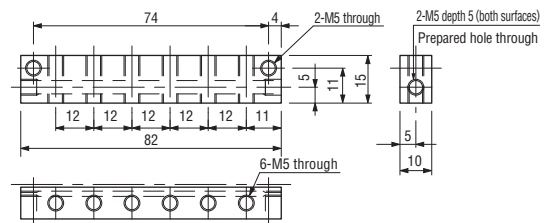
Various Products Information



Manifold mini

Order code No.	122037
TYPE	MM-14P

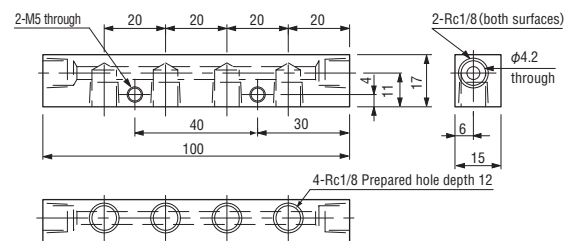
● Weight : 25g
● Mounting : M5/P74



Manifold small

Order code No.	122040
TYPE	MS-6P (1/8)

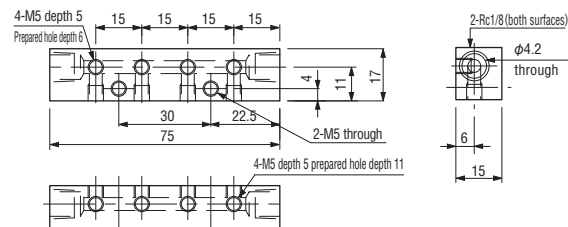
● Weight : 52g
● Mounting : M5/P40



Manifold small

Order code No.	122038
TYPE	MS-10P

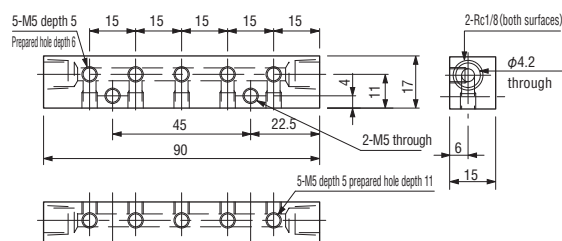
● Weight : 41g
● Mounting : M5/P30

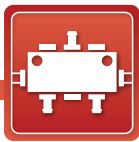


Manifold small

Order code No.	122039
TYPE	MS-12P

● Weight : 50g
● Mounting : M5/P45





Light Weight Plastic Manifold

Air circuit is branched off in two or more directions.

● Close up unneeded ports with cap.



Light weight plastic manifold BF5

Order code No.	123195
TYPE	MP-10P-BF5

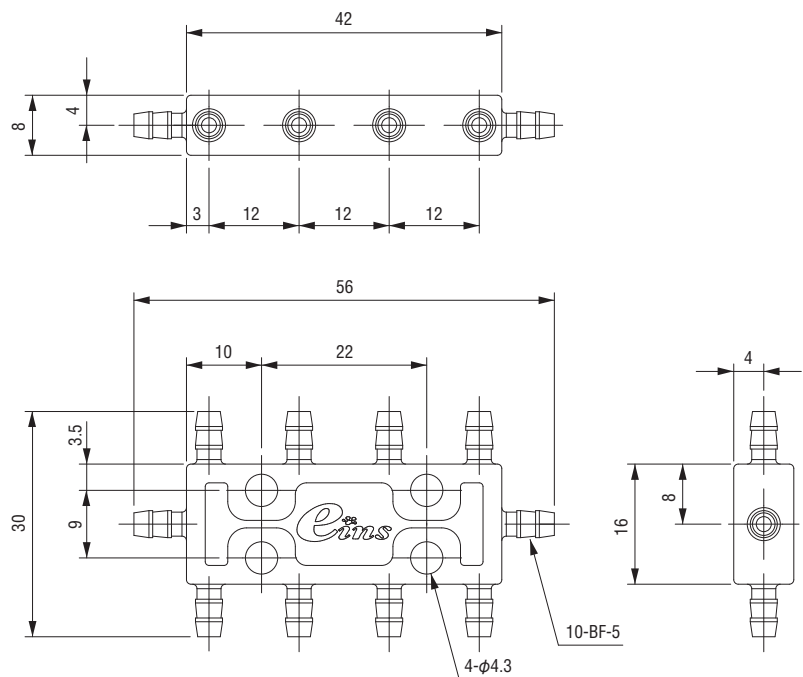
● Weight : 5g



Cap for resin manifold • BF5

Order code No.	010585
TYPE	BF5-CAP

● Weight : 1g



Light weight plastic manifold BF6

Order code No.	123196
TYPE	MP-10P-BF6

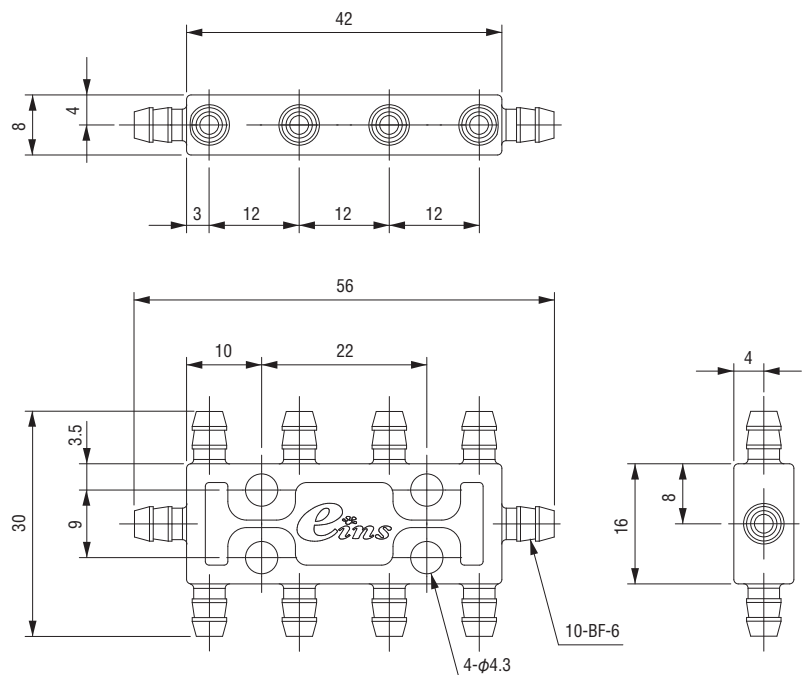
● Weight : 5g

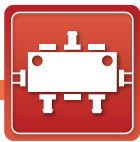


Cap for resin manifold • BF6

Order code No.	010586
TYPE	BF6-CAP

● Weight : 1g

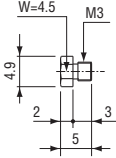
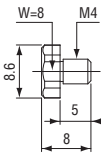
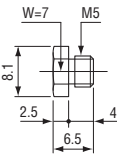
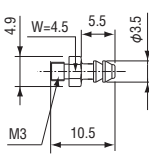
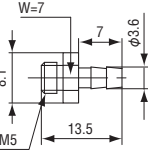
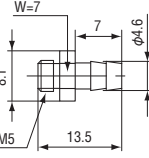


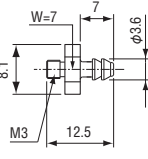
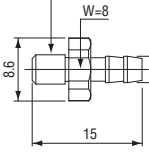
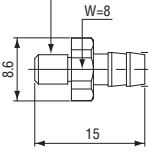
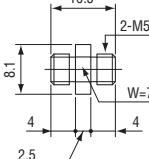
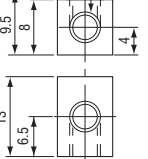
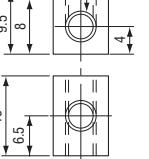


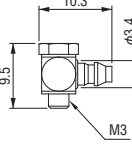
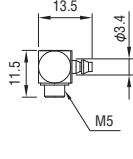
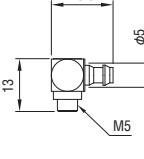
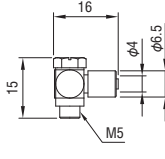
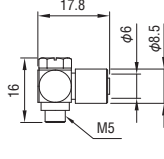
Fitting

Used for connection of chuck device and air tube.

● Please select from (6-9) for the air tube to be connected.

Fitting	For micro-mini cylinder			For micro-mini cylinder		
						
Drawing						
Order code No.	010474	151349	190106	010473	190109	190108
TYPE	PF-3	PF-M4	PF	BF-3	BF-5	BF-6
Weight	0.5g	0.2g	1.2g	0.7g	1.4g	1.5g
Connection	M3	M4	M5	M3	M5	M5
Tube Size	—	—	—	φ4	φ4、φ4.5	φ6

Fitting	For micro-mini cylinder					
						
Drawing						
Order code No.	010416	010482	010481	190107	190110	190111
TYPE	BF-5-M3	BF-5-M4	BF-6-M4	NF	EF	TF
Weight	1.2g	0.2g	0.2g	1.4g	7.0g	6.6g
Connection	M3	M4	M4	M5	M5	M5
Tube Size	φ4、φ4.5	φ4、φ4.5	φ6	—	—	—

Fitting	Barb elbow for soft tubing			Hose Elbow	
	For micro-mini cylinder				
Drawing					
Order code No.	120543	120692	122892	120500	122832
TYPE	M-3ALU-4	M-5ALU-4	M-5ALU-6	MS-5HLH-4	MS-5HLH-6
Weight	0.7g	4.1g	4.5g	4.2g	6.2g
Connection	M3	M5	M5	M5	M5
Tube Size	φ4	φ4	φ6	φ4	φ6

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Quick Chuck Change Manual (OM Type)

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Accessories for Mini Cylinder

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Accessories for Container Cylinder

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Rubber Material / Grip Pad

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Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

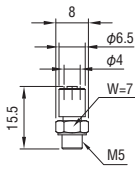
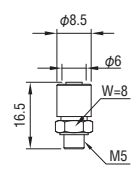
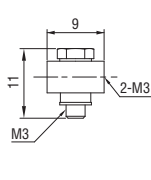
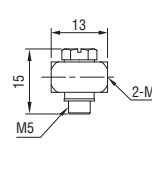
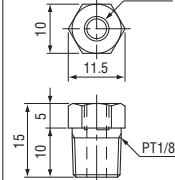
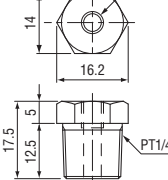
Tool / Jig

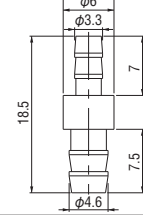
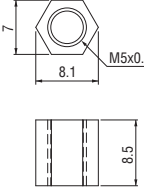
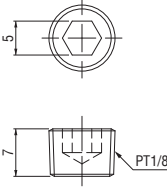
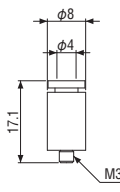
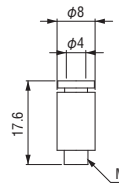
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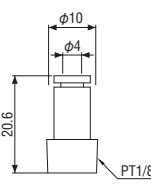
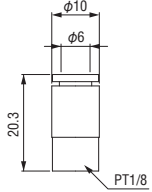
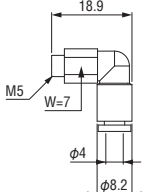
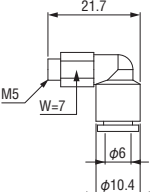
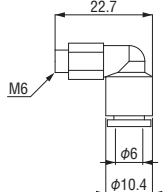
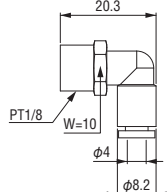
Various Products Information

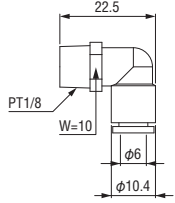
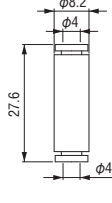
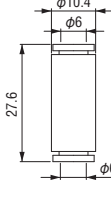
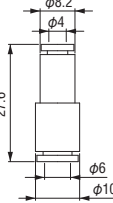
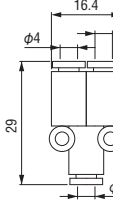
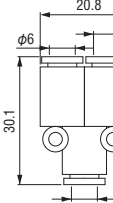
Fitting

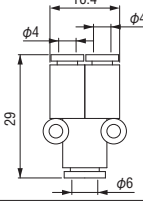
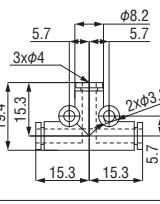
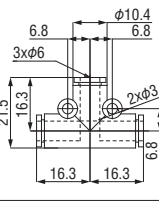
● Please select from (6-9) for the air tube to be connected.

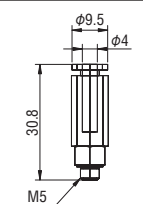
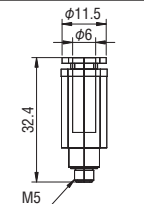
Fitting	Hose nipple		Universal tee		Bushing	
						
Drawing						
Order code No.	122831	122049	123471	120607	190112	190113
TYPE	MS-5H-4	MS-5H-6	M-3UT	M-5UT	RBF	RBF-1
Weight	2.5g	3.7g	1.4g	4.8g	7.1g	17.6g
Connection	M5	M5	M3	M5	PT1/8,M5	PT1/4,M5
Tube Size	φ4	φ6	—	—	—	—

Fitting	Reducer nipple	Joint	Socket plug (trivalent chromate white)	Half Union	
					
Drawing					
Order code No.	300385	022667	271714	101749	101467
TYPE	4-S-6	CF	1/8	KQ2S04-M3G	KQ2S04-M5N
Weight	1.2g	1.75g	2.5g	2.0g	3.0g
Connection	—	M5	1/8	M3	M5
Tube Size	φ4、φ4.5、φ6	—	—	φ4	φ4

Fitting	Half Union		Elbow Union			
						
Drawing						
Order code No.	101746	101468	101462	101464	102051	101710
TYPE	KQ2S04-01NS	KQ2S06-01NS	KQ2L04-M5N	KQ2L06-M5N	KQ2L06-M6A	KQ2L04-01NS
Weight	8.0g	6.5g	3.1g	3.2g	4.3g	4.8g
Connection	1/8	PT1/8	M5	M5	M6	PT1/8
Tube Size	φ4	φ6	φ4	φ6	φ6	φ4

Fitting	Elbow Union	Straight Union		Straight Reducer Union	Union Y	
						
Drawing						
Order code No.	101463	101469	101470	101471	101472	101465
TYPE	KQ2L06-01NS	KQ2H04-00A	KQ2H06-00A	KQ2H04-06A	KQ2U04-00A	KQ2U06-00A
Weight	5.2g	1.6g	2.1g	2.0g	2.9g	4.1g
Connection	PT1/8	—	—	—	—	—
Tube Size	φ 6	φ 4	φ 6	φ 4、φ 6	φ 4	φ 6

Fitting	Reducer Union Y	Cheese:KQ2T	
			
Drawing			
Order code No.	101473	101596	101597
TYPE	KQ2U04-06A	KQ2T04-00A	KQ2T06-00A
Weight	3.3g	2.8g	3.8g
Connection	—	—	—
Tube Size	φ 4、φ 6	φ 4	φ 6

Fitting	Half Union KCH	
		
Drawing		
Order code No.	100817	100818
TYPE	KCH04-M5	KCH06-M5
Weight	8.0g	10.0g
Connection	M5	M5
Tube Size	φ 4	φ 6

* When removing the tube, turn off the air. (No air leaks even when the tube is removed.)

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

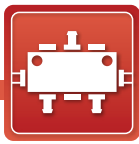
Logistics-Palletizing / Sheet Metal-Stamping / Metal Fabrication

Assembling Tools

Tool / Jig

Information

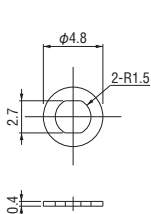
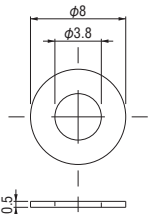
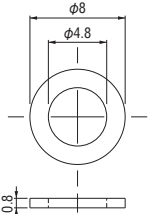
Various Products Information

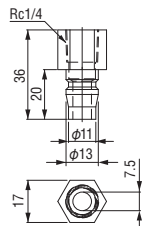
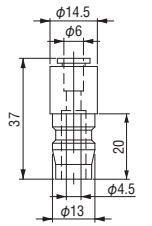


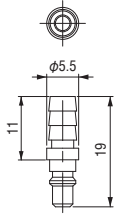
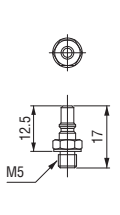
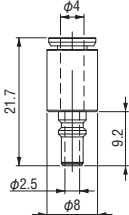
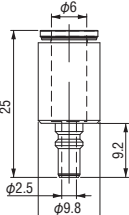
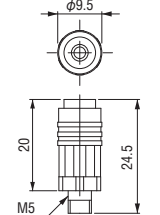
Gasket / Air Coupler / Micro Coupler

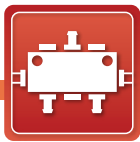
Use with pipe connections.

● Please select from **(6-9)** for the air tube to be connected.

Gasket			
Drawing			
Order code No.	122889	122890	122891
TYPE	M3-G	M4-G	M5-G
Weight	—	—	—
Connection	—	—	—
Tube Size	—	—	—

Air coupler		
Drawing		
Order code No.	280018	322948
TYPE	20PF	60PC
Weight	29.0g	24.0g
Connection	Rc1/4	—
Tube Size	—	φ6

Micro coupler					
Drawing					
Order code No.	120170	120120	122893	122894	120121
TYPE	MC-04PH	MC-05PM	MC-04PC	MC-06PC	MC-05SM
Weight	1.5g	2.0g	5.0g	3.0g	7.0g
Connection	—	M5	—	—	M5
Tube Size	φ6	—	φ4	φ6	—



Tube / Sleeve

Use for connecting air powered devices, flexible to work with your robots movements.

Polyurethane tube (flexible)					
	Order code No.	196516	196277	193564	196513
	TYPE	TU0425W-20	TU0425B-20	TU0425BU-20	TU0425R-20
	Tube Color	White	Black	Blue	Red
	Length	20m			
	Outside × Inside diameter	φ4 × φ2.5			
	Order code No.	196514	196515	196520	196278
	TYPE	TU0425Y-20	TU0425G-20	TU0604W-20	TU0604B-20
	Tube Color	Yellow	Green	White	Black
	Length	20m			
	Outside × Inside diameter	φ4 × φ2.5		φ6 × φ4	
	Order code No.	193566	196517	196518	196519
	TYPE	TU0604BU-20	TU0604R-20	TU0604Y-20	TU0604G-20
	Tube Color	Blue	Red	Yellow	Green
	Length	20m			
	Outside × Inside diameter	φ6 × φ4			

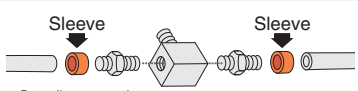
Soft polyurethane tube (more flexible)			
	Order code No.	196530	196531
	TYPE	TUS0425W-20	TUS0604W-20
	Tube Color	White	
	Length	20m	
	Outside × Inside diameter	φ4 × φ2.5	φ6 × φ4

Urethane tube (flexible)					
	Order code No.	200039	200113	200040	200112
	TYPE	UF4.5 * 2.7 (5M)	UF4.5 * 2.7 (20M)	UF6 * 4 (5M)	UF6 * 4 (20M)
	Tube Color	Light blue			
	Length	5m	20m	5m	20m
	Outside × Inside diameter	φ4.5 × φ2.7		φ6 × φ4	

* Please note that 200039 and 200113 can't be used for φ 4mm one touch fitting.

Silicone tube (super flexible)			
	Order code No.	300514	322194
	TYPE	4 * 2 (5M)	6 * 3 (5M)
	Tube Color	Translucent	
	Length	5m	
	Outside × Inside diameter	φ4 × φ2	φ6 × φ3

* Can't be used for one touch fitting.

Sleeve		Order code No.	300001
 *For pullout prevention	TYPE	BS-06	
	Weight	0.2g	

Quick Chuck Change

Quick Chuck Change Manual
Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders (Pads) / Resin Manifolds

By Industry

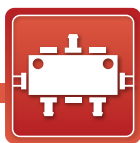
Logistics-Palletizing / Sheet Metal-Stamping / Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Cable Ties / Cable Tie Mount / Tube Cutter

Keep your tooling tubes neat and tied up.

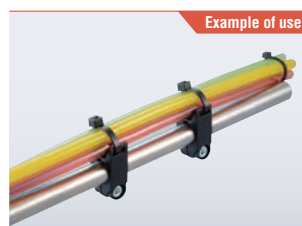
Cable Ties						
	Order code No.	001920	001921	001922	001923	001924
	TYPE	AB100-W	AB150-W	AB200-W	AB300-W	AB350-W
	Length	100mm	152mm	202mm	301mm	382mm
	Per bag	1,000pcs/bag	100pcs/bag			50pcs/bag

Cable Ties / tag		
	Order code No.	152324
	TYPE	PLF1M-C
	Length	109mm
	Per bag	100pcs/bag

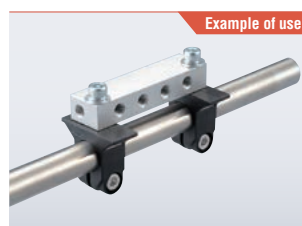
Cable tie mount			
	Order code No.	183222	183223
	TYPE	SKM-20	SKM-30
	Length	20×20×5.3	30×30×6
	Per bag	100pcs/bag	

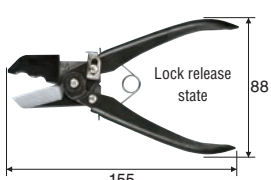


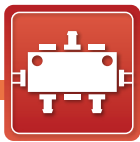
Resin Fixture (Cable Ties)			
	Order code No.	171210	171211
	TYPE	RCA12	RCA20
	Weight	0.2g	
	Per bag	φ 12	φ 20



Resin Fixture (M4)			
	Order code No.	171212	171213
	TYPE	RCB12	RCB20
	Weight	0.2g	
	Per bag	φ 12	φ 20



Tube cutter		*Do not use for cutting metal such as electric wire.	
	Order code No.	190508	
	TYPE	TK-1	
	Weight	154g	
	Applied tube material	Nylon, soft nylon, polyurethane, other non-rigid plastic tubes	
	Applied tube outside diameter	13mm or less	



Regulator/Manual Air Valve Push Button/Manual Air Valve Push Slide Button

Used for air pressure regulations and switches.

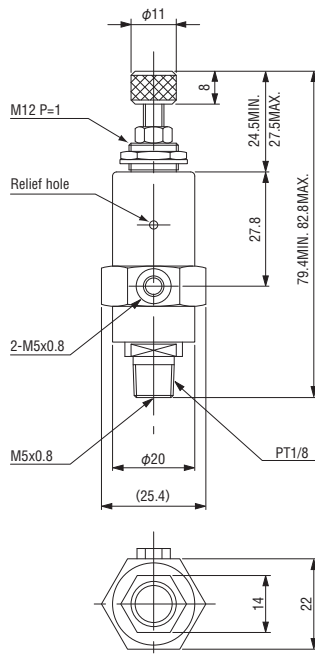
- Grip strength of components such as mini cylinder is adjusted by regulating pressure.



Regulator

Order code No.	190009
TYPE	RSR

- Weight : 108g



- Used to switch port of air (A/B).



Manual air valve push button

Order code No.	152308
TYPE	PB1-E

- Weight : 65g
- Fixing bolt and nut are separately sold.
- Return type

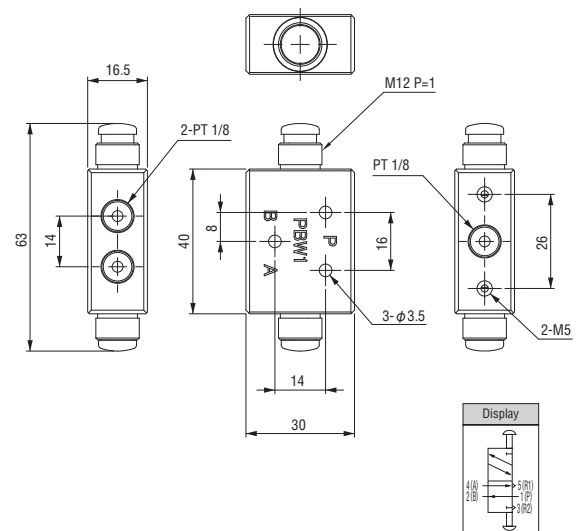
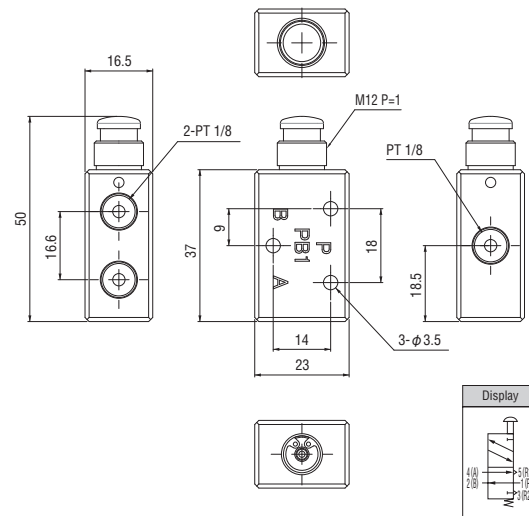
- Used to switch port of air (A/B).



Manual air valve push slide button

Order code No.	152306
TYPE	PBW1-E

- Weight : 75g
- Fixing bolt and nut are separately sold.
- Retention type



Mountable on RSR, PB1-E, and PBE1-E.
[120483 + 3-37] is separately required for installation to PB1-E, PBW1-E.

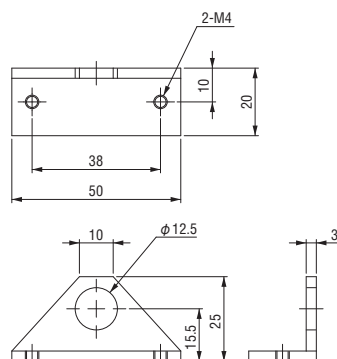
- Mounting bracket for push button and regulator.



RSR 4P mount BKT

Order code No.	020830
TYPE	CP-055

- Weight : 2g



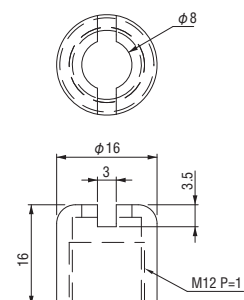
- Installation to PB1-E and PBW1-E is possible.



Push button cap

Order code No.	152307
TYPE	PB1-C

- Weight : 5g
- With spring washer



Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

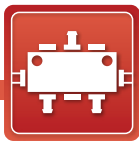
Logistics - Palletizing / Sheet Metal - Stamping - Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



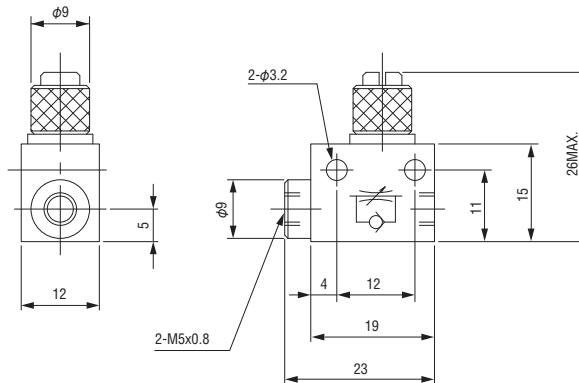
Flow Controller

Speed of air cylinder can be adjusted.



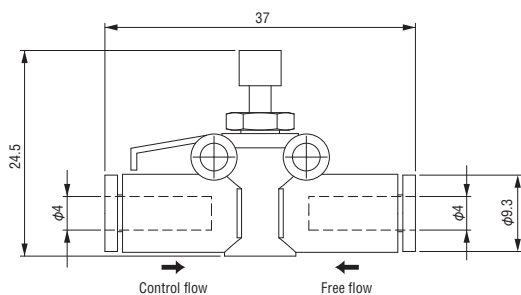
Order code No.	190002
TYPE	SC0

- Weight : 29g
- Directional



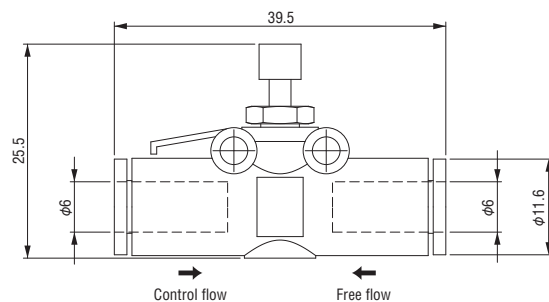
Order code No.	002199
TYPE	AS1002F-04

- Weight : 5.5g
- Directional



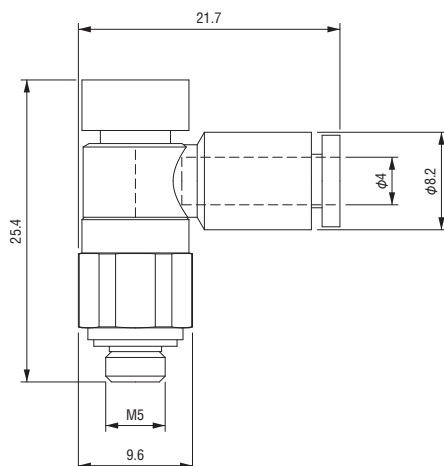
Order code No.	002200
TYPE	AS1002F-06

- Weight : 6.5g
- Directional



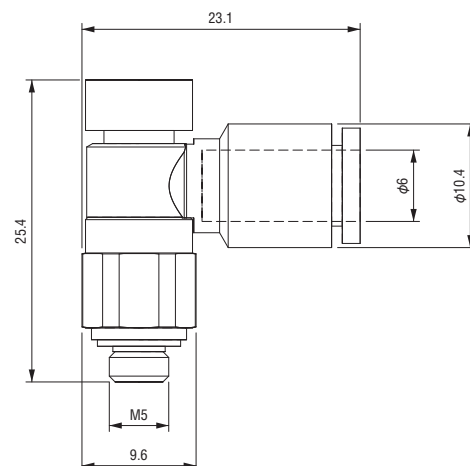
Order code No.	002239
TYPE	AS1201F-M5-04A

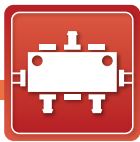
- Weight : 5g
- Meter out type



Order code No.	002288
TYPE	AS1201F-M5-06A

- Weight : 6g
- Meter out type





Valve Joint (Quick Exhaust Valve / Finger Valve)

Used to control air flow.

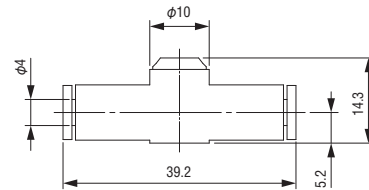
- ▶ Quick exhaust valve with one-touch pipe joint.
- ▶ The reaction time is shortened for the discharge of the air inside the cylinder.



Quick Exhaust Valve

Order code No.	002216
TYPE	AQ240F-04-00

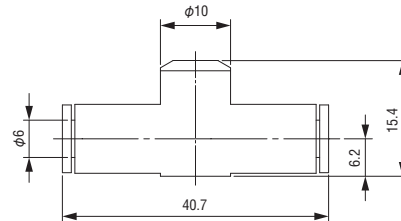
- Weight : 5g
- Silencer is included.
- Directional



Quick Exhaust Valve

Order code No.	002217
TYPE	AQ240F-06-00

- Weight : 6g
- Silencer is included.
- Directional



- ▶ One-touch pipe joint which allows visual inspection of valve open/close with the orientation of the knob.
- ▶ A switching valve for manually controlling residual air pressure.



2-port valve

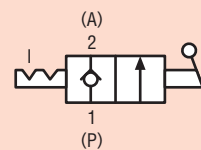
Finger Valve

Order code No.	211152
TYPE	VHK2A-04F-04FL

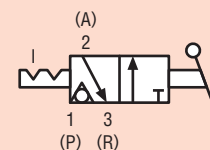
- Weight : 15g
- Applicable tube size : $\phi 4$
- Directional

Structural drawing

2-port valve



3-port valve



Finger Valve

Order code No.	211153
TYPE	VHK2A-06F-06FL

- Weight : 16g
- Applicable tube size : $\phi 6$
- Directional

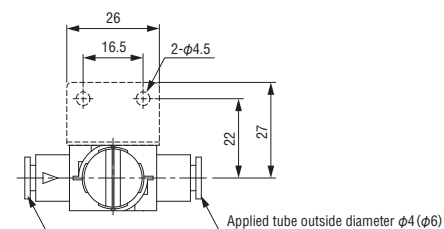


3-port valve

Finger Valve

Order code No.	211154
TYPE	VHK3A-04F-04FL

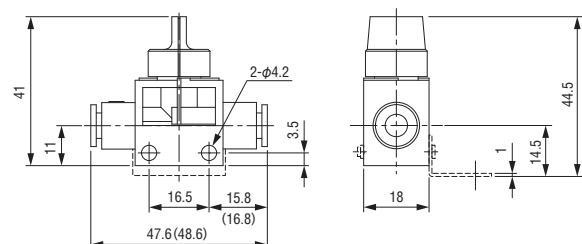
- Weight : 15g
- Applicable tube size : $\phi 4$
- Directional



Finger Valve

Order code No.	211155
TYPE	VHK3A-06F-06FL

- Weight : 16g
- Applicable tube size : $\phi 6$
- Directional



* Size in () shows the size of the component for 06F.

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

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Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

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Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

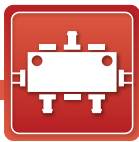
Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



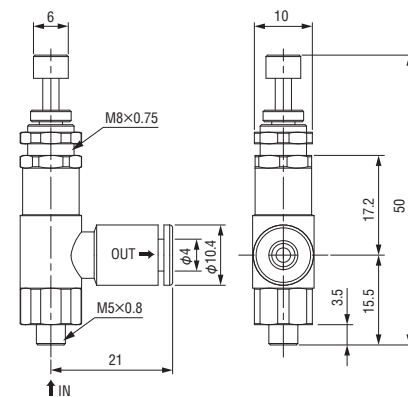
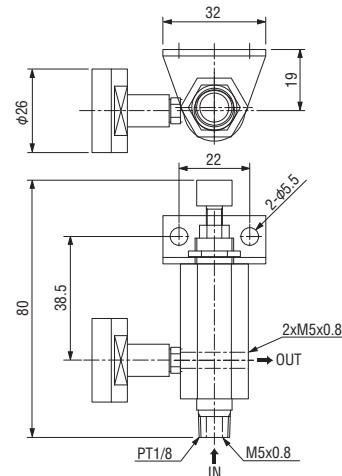
Mini Pressure Regulator

Grips work piece gently by decreasing gripping force.



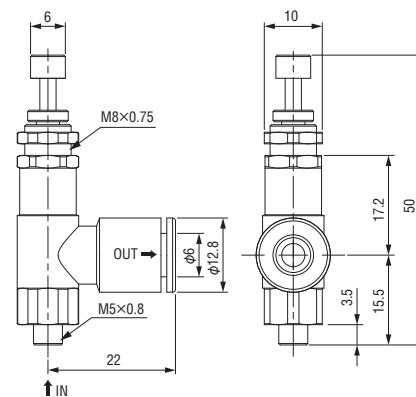
Order code No.	001312
TYPE	ARJ210-M5BG

- Weight : 60g
- With mounting bracket
- Pipe connection : OUT (M5)
- : IN (Pt1/8 or M5)



Order code No.	001382
TYPE	ARJ1020F-M5-04

- Weight : 15g
- Pipe connection : OUT (one-touch fitting φ6)
- : IN (M5)



Order code No.	001447
TYPE	ARJ1020F-M5-06

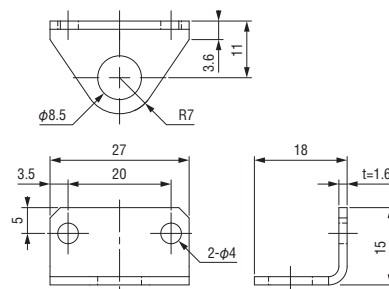
- Weight : 16g
- Pipe connection : OUT (one-touch fitting φ6)
- : IN (M5)



ARJ1 Regulator Bracket

Order code No.	110655
TYPE	LX0109-102

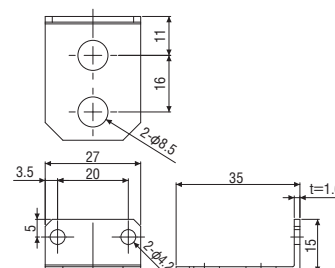
- Weight : 8g

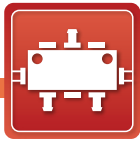


ARJ1 Regulator Bracket (2 pcs specification)

Order code No.	002356
TYPE	ARJ1B2

- Weight : 14g



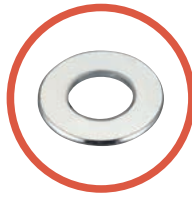


Bolt / Nut / Washer

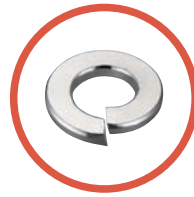
Assembly Hardware



Nut class 1



Flat washer



Spring washer



Flat head screw with hexagon socket



Cross-recessed pan head screw



Bolt with hexagon socket (SW + flat W) trivalent chromate white

	Product name	Order code No.	TYPE
1	Cross-recessed pan head screw (trivalent chromate white)	123446	BKJ3-6 (M3 * 6)
2	Cross-recessed pan head screw (trivalent chromate white)	123447	BKJ3-10 (M3 * 10)
3	Cross-recessed pan head screw (Stainless Steel)	123448	NKJ2.6-5 (M2.6 * 5)
4	Cross-recessed pan head screw (trivalent chromate white)	123449	M3 * 16
5	Bolt with hexagon socket (SW + flat W) trivalent chromate white	122812	M4 * 12 (E)
6	Bolt with hexagon socket (SW + flat W) trivalent chromate white	122821	M6 * 15 (E)
7	Bolt with hexagon socket (SW + flat W) trivalent chromate white	122822	M6 * 20 (E)
8	Bolt with hexagon socket (trivalent chromate white)	123231	M3 * 6
9	Bolt with hexagon socket (trivalent chromate white)	123232	M3 * 8
10	Bolt with hexagon socket (trivalent chromate white)	122790	M3 * 10
11	Bolt with hexagon socket (trivalent chromate white)	122795	M4 * 10
12	Bolt with hexagon socket (trivalent chromate white)	122798	M4 * 25
13	Bolt with hexagon socket (trivalent chromate white)	122805	M6 * 15
14	Bolt with hexagon socket (trivalent chromate white)	122969	M6 * 25
15	Bolt with hexagon socket (trivalent chromate white)	122989	M6 * 35
16	Flat head screw with cross recess (trivalent chromate white)	122787	M2.5 * 16
17	Flat head screw with cross recess (Stainless Steel)	123515	M4 * 10
18	Flat head screw with hexagon socket	122785	M4 * 8
19	Flat head screw with cross recess	371193	M4 * 12
20	Flat head screw with hexagon socket	122786	M6 * 10
21	Spring washer (trivalent chromate white)	122772	M3
22	Spring washer (trivalent chromate white)	122773	M4
23	Spring washer (trivalent chromate white)	122775	M6
24	Spring washer (trivalent chromate white)	122776	M8
25	Flat Washer (Trivalent Chromate) JIS	122777	M3
26	Flat Washer (Trivalent Chromate) JIS	122778	M4
27	Flat Washer (Trivalent Chromate) JIS	122780	M6
28	Flat Washer (Trivalent Chromate) JIS	122781	M8
29	Hex Nut (Trivalent Chromate)	123301	M3
30	Hex Nut (Trivalent Chromate) JIS	123302	M4
31	Nut class 1 (trivalent chromate white)	122782	M6
32	Nut class 1 (trivalent chromate white)	122783	M8

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Sensors / Multi AND Board

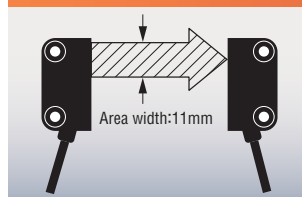
Star Sensor



Use the lead switch inside to improve the durability. Use the two-line design for easy connection.

6-17

Photo Area Sensor



Can be used for passing fine workpieces. Space-saving reflection type can be provided as a special-order product.

6-24

Micro Switch / Limit Switch



Optimum for the product confirmation in the EOAT of small and large size parts. Convenient small limit switches.

6-18

Fiber Units



Best suited for installation in a narrow area. Secure with a set screw.

6-25

Limit Switch Mounting Bracket



Use to mount a limit switch, allowing a proper position for product confirmation to be secured.

6-19

Fiber Amplifier Unit



Amplifier for optical fiber.

6-26

Auto Switch (Reed · Contactless)



It can be used for container cylinders and mini cylinders.

6-20

Proximity Sensor



Micro proximity sensor.

6-30

High-Precision Cylinder Sensor



Detect even a tiny stroke with stability and certainty.

6-21

Multi AND Board



Many sensor inputs are integrated in the board. And it is output from a point to the robot.

6-32

Photo Sensor



No amplifier is required ! Special-purpose mounting brackets are also provided for jungle gym and let's joint.

6-22

PCIO Communication Unit



Two power lines allows simple wiring between units for power supply and input/output communication

6-34



Star Sensor

Internal reed switch to improve durability.

- ▶ Silicone rubber is adopted at the tip to prevent damage to the product.
- ▶ Lightweight (14g) and compact design.



Star sensor

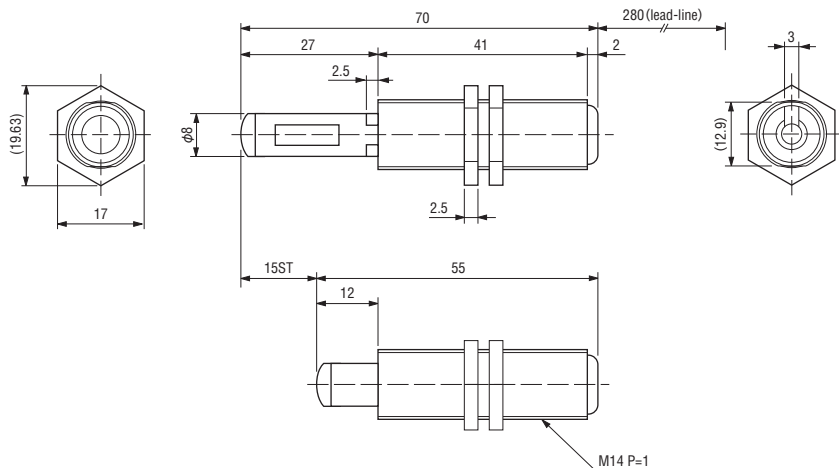
Order code No.	181139
TYPE	SSW-15

- Weight : 14g
- With 280mm lead line.
- Sensing-stroke range : 2.5mm-15mm

Replacement rubber head for SSW-15

Order code No.	270449
TYPE	14103301 (SSW-15)

- (One set/5 pcs)



Electrical specifications

TYPE		SSW-15
Contact point	Contact point type	1A
	Contact position	Off center gap
	Maximum contact capacity	20W
	Maximum open/close voltage	200VDC
	Maximum open/close electric current	0.5A
Electric Characteristic	Turn-on value*1	15-50A*1
	Detecting stroke	2.5mm ~ 15mm
	Open value*1	5A (min)
	Withstand voltage*2	250VDC
Others	Surrounding temperature	- 25°C to 80°C
	Useful life	1 × 10 ⁸ times / DC10mV-10μA
		1 × 10 ⁷ times / DC10V-4mA
		250 × 10 ⁴ times / DC20V-0.5A
	Connection method	Code drawing type (280mm)
	Spring force	0.5N

*1 Crossing in shipment : ±2A

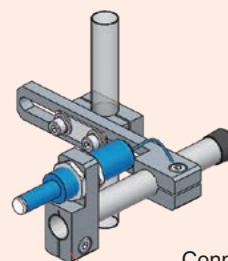
*2 Voltage withstanding standard: turn-on value 25A or more

Body specifications

TYPE		SSW-15
Weight		20g
Material	Main body	PA
	Shaft	PA
	Rubber head	Silicone
Accessories		Hexagon nut M14 × P1 (2 pcs)

* Do not put a strong shock from the outside.

Example of usage



Connector for SSW
N01861-108
181139

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

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Pneumatic Components

Sensors / Multi AND Board

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Various Products Information



Micro Switch

Order code No.	210843
TYPE	VX-5-1A2

● Weight : 6g

Technical drawing of the connector assembly showing dimensions and labels:

- 1.2 (movement until operating PT MAX.)
- 14.7 $\pm$ 0.4 (active position OP)
- 2.8
- 20.2 $\pm$ 0.25
- $\phi 3.1$ ± 0.03 HOLE
- 18.8
- NC
- NO
- CON
- 22.2 $\pm$ 0.1
- 2.8
- 37.8 $\pm$ 0.8
- 10.3



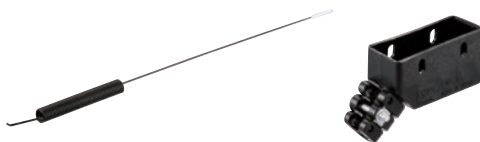
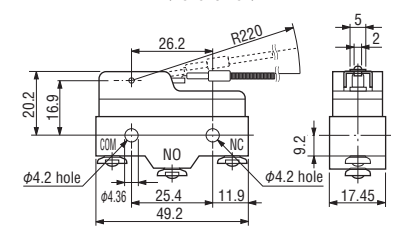
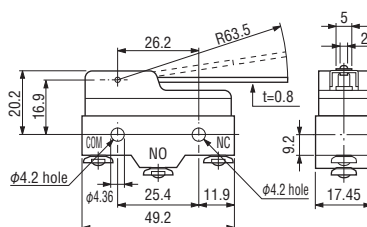
Limit Switch (w/o Spring)



Limit switch •
hinge lever type

Order code No.	25001
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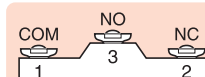
**Limit switch •
hinge lever type**



Limit switch spring

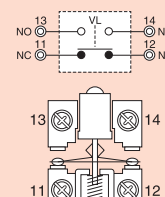
Limit switch micro case

- Weight : 19g
- Mounting screws are not included.
- Protective parts for Z-15GW55



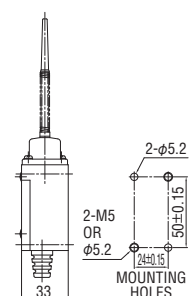
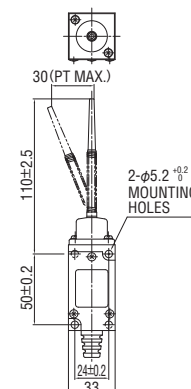
Limit Switch

- Weight : 134g



NO connection (13,14)
Signal "ON" after lever is pressed.

NC connection (11,12)
Signal "OFF" after lever is pressed.





Limit Switch Mounting Bracket

Use to mount a limit switch, allowing a proper position for product confirmation to be secured.



Order code No.	020837
TYPE	CP-059-A

- Weight : 9g
- For Micro Switch (VX-5-1A5)



Order code No.	020838
TYPE	CP-059-B

- Weight : 10g
- For Micro Switch (VX-5-1A5)



Order code No.	020839
TYPE	CP-059-C

- Weight : 11g
- For Micro Switch (VX-5-1A5)



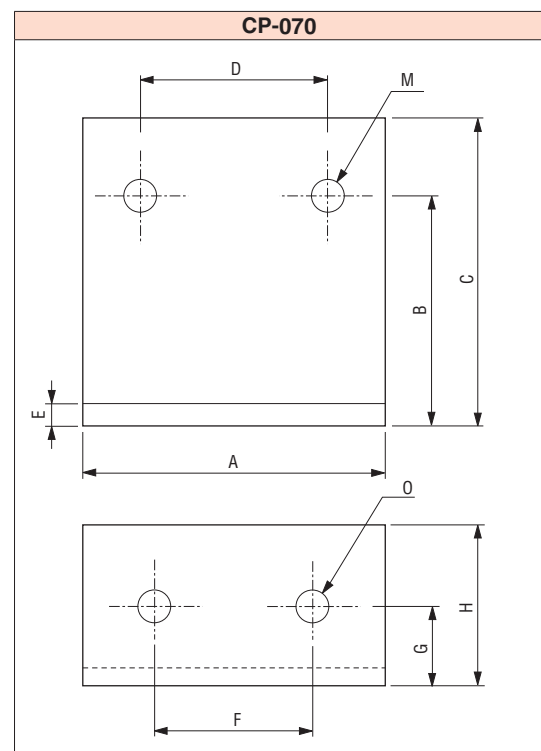
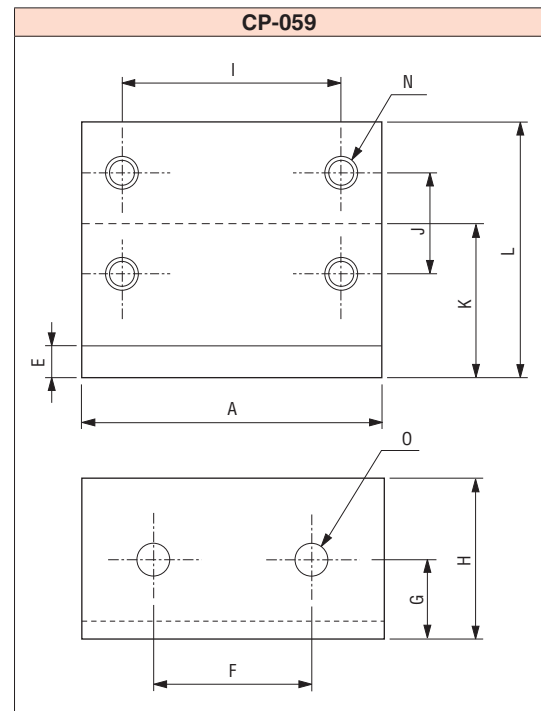
Order code No.	021009
TYPE	CP-070

- Weight : 17g
- For Limit Switch (Z-15HW)

Dimensions

(mm)

TYPE	CP-059-A	CP-059-B	CP-059-C	CP-070
A		30		40
B		—		30
C		—		40
D		—		25.5
E		3		3
F		20		20
G		10		10
H		20		20
I		22		—
J		10		—
K	15	20	25	—
L	25	30	35	—
M		—		M4
N		M3		—
O		M4		M4
Remarks	For VX-5-1A2			For Z-15HW24-B For Z-15GW55-B



Quick Chuck Change

Quick Chuck Change Manual
Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Auto Switch (Reed·Contactless)

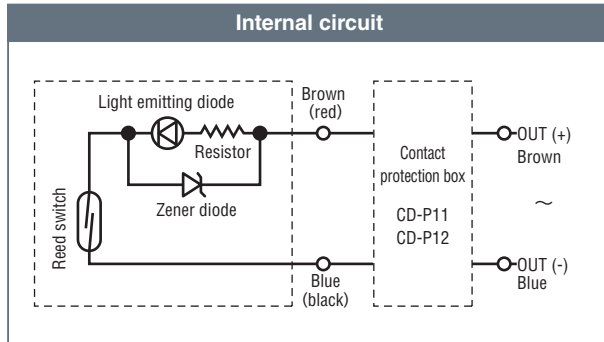
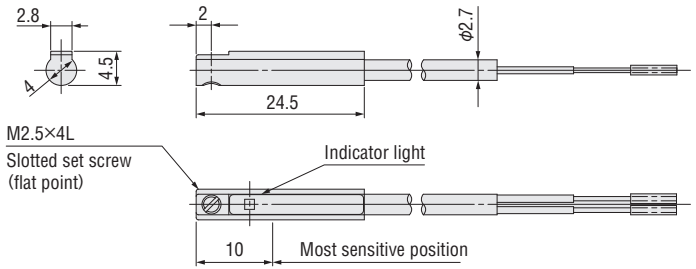
Can be attached to container cylinder and resin mini cylinder.



Auto switch (Reed SW)

Order code No.	030282
TYPE	D-A93

- Weight : 6g
- Length : 0.5m
- Terminal process is not made.



■ Specification

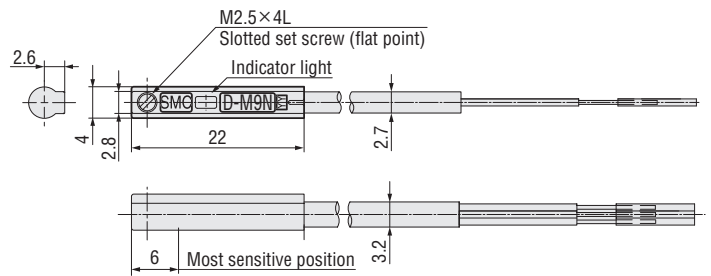
TYPE	D-A93 (With indicator light)
Applicable load	relay, PLC
Load voltage	24VDC
Load current range	5 ~ 40mA
Contact protection circuit	none
Internal voltage drop	2.4V or Less (~20mA) / 3V or Less (~40mA)
Indicator light	Red LED illuminates when turned ON
Standard	CE / UKCA marking
Lead wire	0.5M Load (brown), - (blue)



Auto switch (contactless)

Order code No.	030425
TYPE	D-M9N

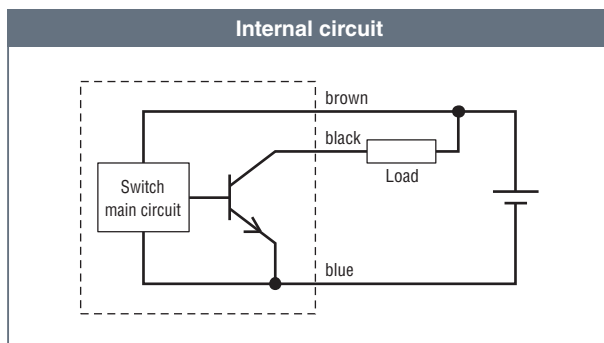
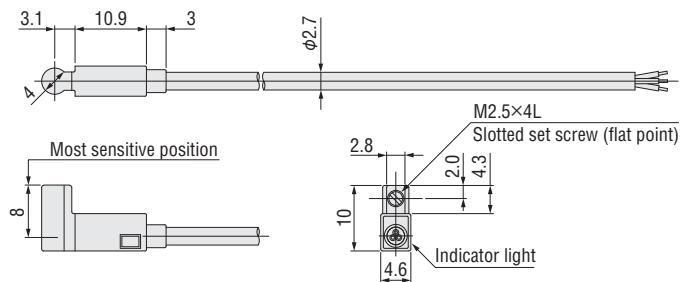
- Weight : 8g
- Length : 0.5m
- Terminal process is not made.



Auto switch (contactless)

Order code No.	030500
TYPE	D-F8N

- Weight : 7g
- Length : 0.5m
- Terminal process is not made.



■ Specification

TYPE	D-F8N · D-M9N
Output Type	NPN type
Applicable load	IC circuit, DC24V relay, PLC
Power supply voltage	DC5 · 12 · 24V (DC4.5 ~ 28V)
Current consumption	10mA or less
Load voltage	28VDC or less
Load current	40mA or less
Internal voltage drop	0.8V or less at 10mA (2V or less at 40mA)
Leakage current	100 μ A or less at DC24V
Indicator light	Red LED illuminates when turned ON
Standard	CE marking, RoHS
Lead wire	0.5M + V (brown), Load (black), 0V (blue)



High-Precision Cylinder Sensor

Suitable for mini cylinders (MEC) and container cylinders. Detect even a tiny stroke with stability and certainty.

NEW



High-Precision Cylinder Sensor (N-pole)

Order code No.	002433
TYPE	ACH02LN

● Weight : 10.8g

High-Precision Cylinder Sensor (S-pole)

Order code No.	002434
TYPE	ACH02LS

● Weight : 10.7g

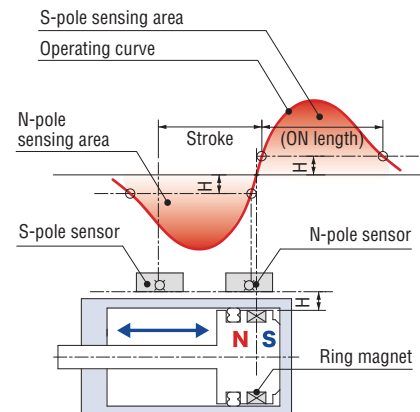
Features

- ▶ Stable functioning even with a 1mm stroke
- ▶ Stable operational points' dependability
- ▶ Superior performance in the harsh environments of vibration, heat etc.
- ▶ Fast response less than 5 μ s
- ▶ Usually combined with N pole and S pole.

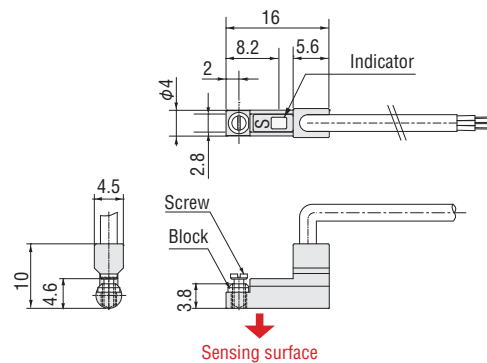
Specification

TYPE	ACH02LN	ACH02LS
Specification	3-wire L-shaped for trench ϕ 4	
Power supply voltage	DC5 ~ 24V	
Detecting magnetic poles	N-pole	S-pole
Magnetic sensitivity	3 ~ 4mT	
Direction to detect	Downward	
Output specification	NPN open-collector (ON when in proximity)	
Output Current	20mA MAX	
Consumption current	8mA MAX	
Response time	16 μ sec max.	
Voltage Resistance	AC1000V (1 minute / packaged changing / between the case)	
Insulation Resistance	DC 250V (Over 20M Ω in megohms / between the case)	
Operation Temperature Range	- 20°C ~ + 85°C (without condensation)	
Operation Humidity Range	20 ~ 95% RH	
Cable length	1m	
Cable specification	Black (N pole)	Grey (S pole)
Case material	GF reinforced PBT (black)	
Mounting	Attachment screws 0.06N $\cdot$ m	
Indicator light	Red	
Protective structure	IP67	

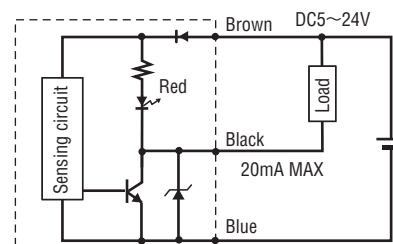
Operation curve of our products



Outside dimension



Circuit diagram



Quick Chuck Change

Quick Chuck Change Manual
Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

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By Industry

Logistics-Palletizing / Sheet Metal-Stamping / Metal Fabrication

Assembling Tools

Tool / Jig

Information

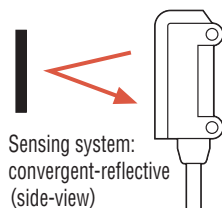
Various Products Information



Photo Sensor

No amplifier is required ! Special-purpose mounting brackets are also provided for jungle gym and let's joint.

► Can be used with AND board.

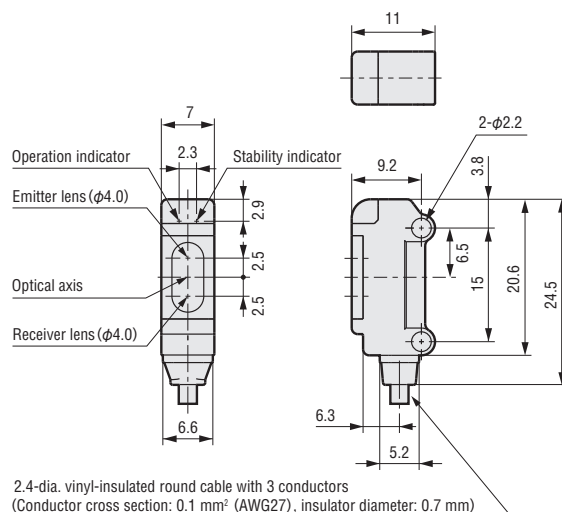


Order code No.	041412
TYPE	E3T-SL21R (NPN)

● Length : 2m

Order code No.	041649
TYPE	E3T-SL23R (PNP)

● Length : 2m



* Wiring : brown (+ V), black (load), blue (0V)

Specification

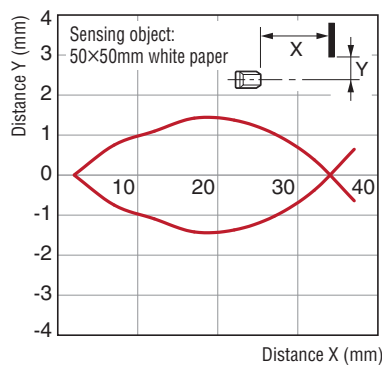
TYPE	E3T-SL21R (NPN)	E3T-SL23R (PNP)
Sensing system	Convergent-reflective (side-view)	
Output system	NPN output	PNP output
Sensing distance	5 to 30mm (50×50mm white paper)	
Minimum detectable object	0.15-mm dia. (sensing distance of 10mm)	
Hysteresis (white paper)	6mm max.	
Light source (wavelength)	Red LED (650nm)	
Power supply voltage	12 to 24VDCI 10%, ripple (p-p) 10% max.	
Current consumption	20mA max.	
Control output (Light-ON)	Load power supply voltage 26.4VDC max.	
	Load current: 50mA max. (residual voltage : 2V max. for load current of 10 to 50mA, 1V max. for load current of less than 10mA)	
	Open-collector output	
Protection circuits	power supply and control output reverse polarity protection, output short-circuit protection, mutual interference prevention	
Response time	Operate or reset 1ms max.	
Ambient illumination	Incandescent lamp 5,000lx max., sunlight 10,000lx max.	
Ambient temperature range	Operating : -25 to 55 °C (with no icing or condensation), Storage : -40 to 70 °C (with no icing or condensation)	
Ambient humidity range	operating 35% to 85%, storage : 35% to 95% (with no condensation)	
Insulation resistance	20M Ω min. at 500 VDC	
Dielectric strength	1,000VAC, 50/60Hz, 1min	
Vibration resistance (Destruction)	10 to 2,000Hz, 1.5-mm double amplitude or 300m/s ² for 0.5 hrs each in X, Y, and Z directions	
Shock resistance (Destruction)	1,000m/s ² 3 times each in X, Y, and Z directions	
Degree of protection	IP67 (IEC60529)	
Connection method	Pre-wired (standard length : 2m)	
Weight	Approx 20g	
Material	case	PBT (polyethyleneterephthalate)
	Display window	denatured polyarylate
	Lens	denatured polyarylate
Accessories	Instruction manual, Set screws for mounting (M2×14), Nuts	

Input/output stage circuit diagram

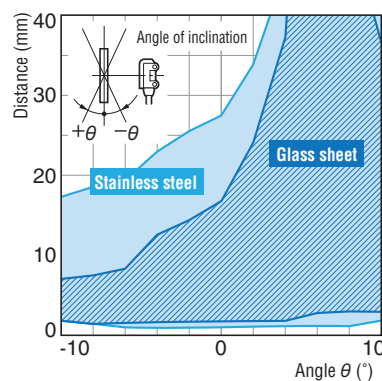
TYPE	Operation mode	Time chart	Output circuit
SE3T-SL21R (NPN output)	Light ON	Light incident Light interrupted Operation indicator (orange) ON OFF Output transistor ON OFF Load (e.g., relay) Operate Reset (Between brown (1) and black (4) leads)	
SE3T-SL23R (PNP output)	Light ON	Light incident Light interrupted Output transistor ON OFF Output transistor ON OFF Load (e.g., relay) Operate Reset (Between blue (3) and black (4) leads)	

Technical characteristics

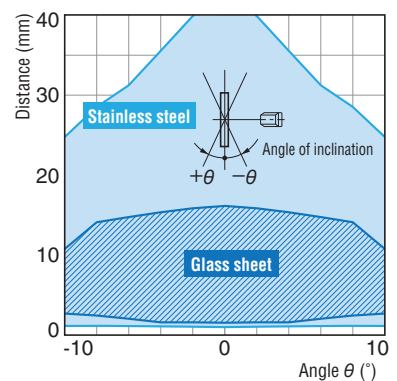
Operation area characteristics



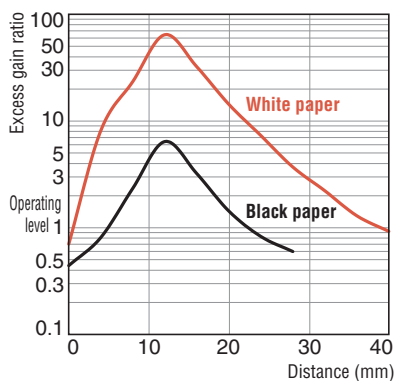
Inclination detection area characteristics (Top to bottom)



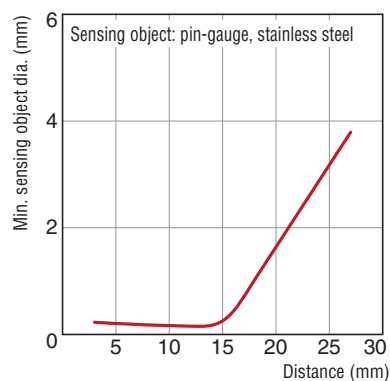
Inclination detection area characteristics (Right to left)



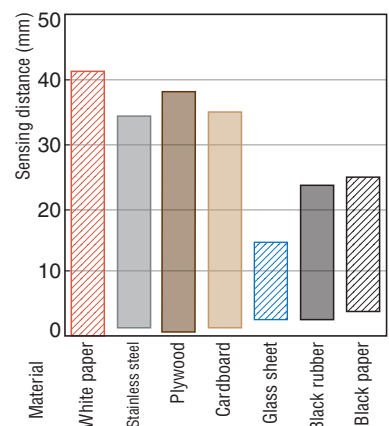
Detected object size – Distance characteristics



Light-receiving output – Distance characteristics



Detection distance – Material characteristics



Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

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Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

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Assembling Tools

Tool / Jig

Information

Various Products Information



Photo Area Sensor

Can be used for passing fine workpieces.

Space-saving reflection type can be provided as a special-order product.

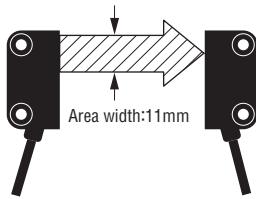
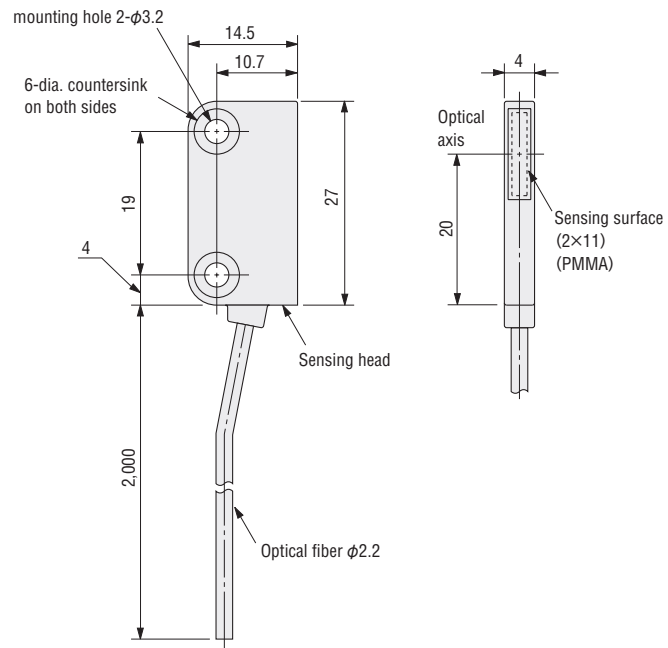


Photo area sensor

Order code No.	041415
TYPE	E32-T16PR

- Use the product with the optical amplifier sold separately.
- Length : 2m
- Material : heat-resistant ABS
- Provided with stickers with slits of width 0.5 and 1 mm(2 of each)



Specification

Fiber unit	E32-T16PR			
Sensing system	area-sensing			
Sensing distance (mm) ^{*1}	1,100	840	560	220
Surrounding temperature ^{*2}	- 40°C to 70°C			
Surrounding humidity ^{*2}	35% to 85% RH			
Fiber material	Plastic (vinyl chloride coated)			
Degree of protection	IP50 (IEC)			

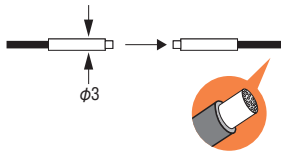
*1 ■ High-resolution mode ■ Standard mode ■ High-speed mode ■ Super-highspeed mode (When used in combination with the E3X-DA-S Amplifier Unit (general-purpose).)

*2 No freezing or no dew condensation shall occur under the operating surrounding temperature and humidity.



Fiber Units

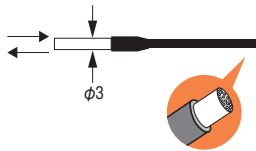
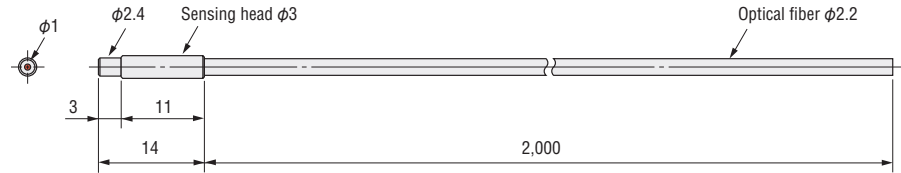
Best suited for installation in a narrow area. Secure with a set screw.



Fiber unit • $\phi 3$ mm through beam

Order code No.	041413
TYPE	E32-T12R

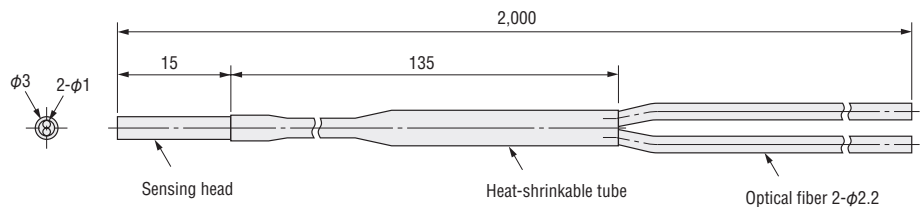
- Use the product with the optical amplifier sold separately.
- Length : 2m (including detection head section)
- Detection head quality : Brass nickel plating



Fiber unit • $\phi 3$ mm reflect

Order code No.	041414
TYPE	E32-D12R

- Use the product with the optical amplifier sold separately.
- Length : 2m (including detection head section)
- Detection head quality : Stainless (SUS304)



Specification

Fiber unit	E32-T12R	E32-D12R
Sensing system	Through-beam fiber units	Fiber units with reflective sensors
Sensing distance (mm) ^{*1}	700 530 350 140	300 170 120 50
Surrounding temperature ^{*2}	- 40°C to 70°C	
Surrounding humidity ^{*2}	35% to 85% RH	
Fiber material	Plastic (vinyl chloride coated)	
Degree of protection	IP67 (IEC)	

- * 1 ■ High-resolution mode ■ Standard mode ■ High-speed mode ■ Super-highspeed mode (When used in combination with the E3X-DA-S Amplifier Unit (general-purpose).)
- * 2 No freezing or no dew condensation shall occur under the operating surrounding temperature and humidity.

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing / Sheet Metal-Stamping / Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Fiber Amplifier Unit

Amplifier for optical fiber.

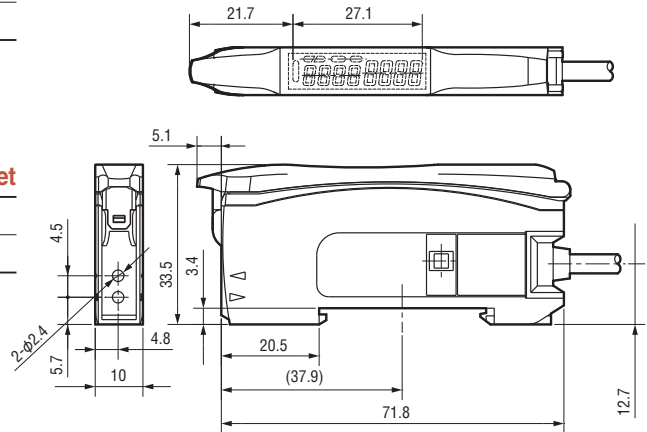


Order code No.	041954
TYPE	E3X-HD11 2M

- Function : AND/OR output
- Length : 2m
- NPN specification

Fiber amplifier mounting bracket

Order code No.	041697
TYPE	E39-L143



Input / output stage circuit diagram

TYPE	Operation mode	Time chart	Operation selector	Output circuit
E3X-HD11 (2M)	Light ON	Incident light No incident light OUT indicator Lit (orange) No lit Output transistor ON OFF Load (e.g., relay) Operation Reset (Between brown and black leads)	L·ON (LIGHT ON)	
	Dark ON	Incident light No incident light OUT indicator Lit (orange) No lit Output transistor ON OFF Load (e.g., relay) Operation Reset (Between brown and black leads)	D·ON (DARK ON)	

Part names

L/D Indicator

Indicates the setting status: Light-ON (L) or Dark-ON (D).

OUT Indicator

Turns ON when the output is ON.

DPC Indicator

Turns ON when Dynamic Power Control is effective.

ST Indicator

Turns ON when Smart Tuning is in progress.

△L/D Button

Use to switch between Light-ON (L) and Dark-ON (D).

STUNE Button

Automatically sets the emitter power and set values.

Threshold Level Green digital display

Incident Level Red digital display

MODE Button

Use to switch between Detection Mode and Setting Mode.

+—UP/DOWN Button

Used to fine-tune the threshold or change set values.



■ Specification

TYPE		E3X-HD11 2M
Light source (wavelength)		Red, 4-element LED (625 nm)
Power supply voltage		12 to 24 VDC $\pm 10\%$, ripple(p-p) 10% max
Power consumption		720 mW max. (Current consumption: 30 mA max. at 24 VDC, 60 mA max. at 12 VDC)
Control output	Load power supply voltage	26.4VDC max Open-collector output
	Load current	Groups of 1 to 3 Amplifier Units: 100mA max., Groups of 4 to 16 Amplifier Units: 20mA max
	Residual voltage	At load current of less than 10 mA: 1 V max., At load current of 10 to 100 mA: 2 V max.
	OFF current	0.1 mA max
Protection circuits		Power supply reverse polarity protection, output short-circuit protection and output reverse polarity protection
Response time	Super-highspeed mode*	NPN output : Operate or reset : 50 μ s
	High-speed mode	Operate or reset : return : 250 μ s (default setting)
	Standard mode	Operate or reset : 1 ms
	Giga power mode	Operate or reset : 16ms
Mutual interference prevention		Possible for up to 10 units (optical communications sync)*
Automatic power control		Always ON
Other functions		Power tuning, differential detection, DPC, timer (OFF-delay, ON-delay, or one-shot), zero reset, resetting settings, and Eco mode
Ambient illumination		Incandescent lamp: 20,000 lx max., Sunlight: 30,000 lx max.
Ambient temperature range		Operating : Groups of 1 to 2 Amplifiers: -25 to 55°C , Groups of 3 to 10 Amplifiers: -25 to 50°C , Groups of 11 to 16 Amplifiers: -25 to 45°C , Storage : -30 to 70°C (with no icing or condensation)
Ambient humidity range		Operating and storage : 35% to 85% (with no condensation)
Insulation resistance		20M Ω min. (at 500 VDC)
Dielectric strength		1,000 VAC at 50/60 Hz for 1 minute
Vibration resistance (Destruction)		10 to 55 Hz with a 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance (Destruction)		500m/s ² for 3 times each in X, Y, and Z directions
Degree of protection		IEC 60529 IP50 (with Protective Cover attached)
Weight (packed state/unit only)		About 105g/about 64g
Materials	Case	Polycarbonate (PC)
	Cover	Polycarbonate (PC)
	Cable	PVC
Accessories		Instruction manual

* The communications function and mutual interference prevention function are disabled when the detection mode is set to Super-high-speed mode (SHS).
When including E3X-DA-S with activated power tuning, mutual interference prevention is possible for up to 6 units. When including E3X-MDA with activated power tuning, mutual interference prevention is possible for up to 5 units.

■ Safety Precautions

⚠ Warning



This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.

Notes on use

Do not use this product under ambient atmosphere and environment exceeding the rating.

● For design (operation at power on)

The sensor becomes detectable within 200 ms after the power is turned on. If the load and the sensor are connected to separate power supply units, be sure to turn on the sensor power supply first.

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information

Fiber Amplifier Unit

- ▶ Two optical fibers could be connected, the installation space become 1 / 2. Contribute to the miniaturization of equipment and control board in space saving.

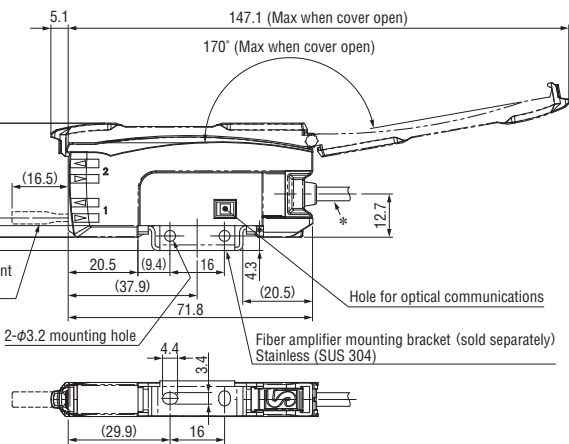
With mounting bracket attached



Fiber amplifier mounting bracket

Order code No.	042093
TYPE	E3NX-MA11
● Function: AND/OR output ● Two channel type ● Length : 2m ● NPN specification	

Order code No.	041697
TYPE	E39-L143



* Cord specification			
Type	Outer diameter	Number of wire cores	Others
E3NX-MA11	φ 4.0	4-core	Conductor cross section: 0.2mm ² Insulator diameter: φ 0.9mm

Input / output stage circuit diagram (NPN Output)

TYPE	Operation mode	Time chart	MODE Switching button	Output circuit
E3NX-MA11 (NPN)	Light-ON	Incident light No incident light OUT indicator Lit (orange) No lit Output transistor ON OFF Load Operation Reset (Between brown and black leads)	L · ON (LIGHT ON)	
	Dark-ON	Incident light No incident light OUT indicator Lit (orange) No lit Output transistor ON OFF Load Operation Reset (Between brown and black leads)	D · ON (DARK ON)	

Part names

L/D Indicator

Indicates the setting status: Light-ON (L) or Dark-ON (D).

DPC Indicator

Turns ON when Dynamic Power Control is effective.

△L/D Button

Use to switch between Light-ON (L) and Dark-ON (D).

OUT 1 Indicator / OUT 2 Indicator

When OUT1 or OUT2 is ON.

ST Indicator

Turns ON when Smart Tuning is in progress.

STUNE Button

Automatically sets the emitter power and set values.

Threshold Level Green digital display Incident Level Red digital display

OUT 1 Indicator OUT 2 Indicator

The indicator for the selected output channel is it.

MODE Button

Use to switch between Detection Mode and Setting Mode.

+/-UP/DOWN Button

Used to fine-tune the threshold or change set values.



■ Specification

TYPE		E3NX-MA11 (NPN)
Light source (wavelength)		Red, 4-element LED (625 nm)
Power supply voltage		10 to 30 VDC, Including 10%, ripple (p-p)
Power consumption		960 mW max. (current consumption at 40mA max.)
Control output	Load power supply voltage	30VDC max, open-collector output*1
	Load current	100mA max.; residual voltage : 1V max.
Protection circuits		Power supply reverse polarity protection, output short-circuit protection and output reverse polarity protection
Response time	Super-highspeed mode*2	Operate or reset : 130 μ s*2*3
	High-speed mode	Operate or reset : 450 μ s
	Standard mode	Operate or reset : 1ms
	Giga power mode	Operate or reset : 16ms
Sensitivity setting		Teaching or manual method
Functions	Power tuning	Select from ON/OFF
	Timer	Select from OFF-delay, ON-delay, or one-shot timer.
	Automatic power control	Equipped (Always effective)
	Zero-reset	Negative values can be displayed. (Threshold value is shifted.)
	Initial reset	Settings can be returned to defaults as required.
	Mutual interference prevention	Possible for up to 9 units (18 channels)*4
Indicators		Operation indicator 1ch (orange) ,Operation indicator 2ch (orange)
Digital display		Select from incident level for channel 1 + incident level for channel 2 or other 7 patterns
Display orientation		Switching between normal / reversed display is possible.
Ambient illumination		Incandescent lamp : 20,000 max. Sunlight : 30,000 max.
Ambient temperature range		Operating : Groups of 1 to 2 Amplifier Units : -25°C to 55°C , Groups of 3 to 10 Amplifier Units : -25°C to 50°C , Groups of 11 to 16 Amplifier Units : -25°C to 45°C Storage : -30 to 70°C (with no icing or condensation)
Ambient humidity range		Ambient humidity range : Operating and storage : 35% to 85% (with no condensation)
Insulation resistance		20M Ω min. (at 500 VDC)
Dielectric strength/Vibration resistance /Shock resistance		1,000 VAC at 50/60 Hz for 1 minute / Destruction: 10 to 55 Hz with a 1.5-mm double amplitude for 2 hrs each in X, Y and Z directions
Degree of protection		IEC 60529 IP50 (w / protective cover attached)
Connection method		Code drawing type (2m)
Weight (packed state)		About 190g
Material		Case : Polybutylene terephthalate (PBT) , Cover : Polycarbonate (PC)
Accessories		Instruction manual

*1 Depends on the NPN/PNP output system.

*2 Communications are disabled if the detection mode is selected during super-high-speed mode, and the communications functions for mutual interference prevention and the Mobile Console will not function.

*3 When differential output is selected for the output setting, the second channel output is 200 μ s for operation and reset respectively.

*4 Mutual interference prevention can be used for up to 5 units (10 channels) if power tuning is enabled.

■ Safety Precautions

⚠ Warning



This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.

Notes on use

Do not use this product under ambient atmosphere and environment exceeding the rating.

● For design (operation at power on)

The sensor becomes detectable within 200 ms after the power is turned on. If the load and the sensor are connected to separate power supply units, be sure to turn on the sensor power supply first.

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



Proximity Sensor

Micro proximity sensor.



Order code No.	041417
TYPE	E2S-W13 (NPN)

● Length : 1m



Order code No.	041640
TYPE	E2S-W15 (PNP)

● Length : 1m



Order code No.	041773
TYPE	E2S-W13-R-S (NPN)

● Length : 1m
● Please utilize it as the sensor for the runner chuck (E, E1 Series) due to the improved vibration resistance standard.

■ Specification

TYPE		E2S-W13 (NPN)	E2S-W15 (PNP)	E2S-W13-R-S (NPN)
Sensing surface		Top		
Sensing distance		1.6mm ± 15%		
Set distance		0 ~ 1.2mm		
Differential travel		10% max. of sensing distance		
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal.)		
Standard sensing object		Iron, 12 × 12 × 1mm		
Response frequency*1		1kHz (Average value)		
Power supply voltage (operating voltage range)		12 to 24 VDC (10 to 30 VDC), ripple (p-p) : 10% max.		
Current consumption		13mA max. at 24VDC (no-load)		
Control output	Load current	NPN open-collector output, 50mA max. (30VDC max.)	PNP open-collector output, 50mA max. (30VDC max.)	NPN open-collector output, 50mA max. (30VDC max.)
	Residual voltage	1.0V max. (load current of 50mA with cable length of 1m)		
Indicators		Operation indicator (orange)		
Operation mode (with sensing object approaching)		NO		
Protection circuits		Power supply reverse polarity protection, surge suppressor		
Ambient temperature range		Operating : -25 to 70°C (with no icing or condensation), Storage : -40 to 85°C (with no icing or condensation)		
Ambient humidity range		operating : 35% to 90% (with no condensation), storage : 35% to 95% (with no condensation)		
Temperature influence		± 15% max. of sensing distance at 23°C in the temperature range of -25 to 70°C		
Voltage influence		± 2.5% max. of sensing distance at rated voltage in rated voltage ± 10% range		
Insulation resistance		Between charged parts and the case : 50 MΩ min. (at 500 VDC)		
Dielectric strength		Between charged parts and the case : 1,000VAC 50/60 Hz for 1 min		
Vibration resistance (Destruction)		10 to 55Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		
Shock resistance (Destruction)		500m/s ² 3 times each in X, Y, and Z directions		
Degree of protection		IEC 60529 IP67		
Connection method		Pre-wired models (1m)		
Weight		Approx 20g		Approx 30g
Material (case)		polyarylate		
Accessories		Mounting brackets*2		

* 1 The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

* 2 Not for runner chuck. See page 2-33, 35 for runner chuck.

Quick Chuck Change

Quick Chuck Change Manual
Quick Chuck Change Manual (OM Type)

Tool Changer
Automated Hand Exchange System

Grip

Mini Cylinder
Accessories for Mini Cylinder
Container Cylinders
Accessories for Container Cylinder
Grippers
Rubber Material / Grip Pad

Suction

Suction Cups
Suction Stems
Pad in Pad
Vacuum Gripper
Air Ejector / Filter / Check Valve
Ultra Small Part Take Out
Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)
Air Nipper (Large)

Frame / Module

Jungle Gym
Let's Joint
Rectangular Tube
Base Aluminum Material
Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing/Sheet Metal-Stamping-Metal Fabrication

Assembling Tools

Tool / Jig

Information

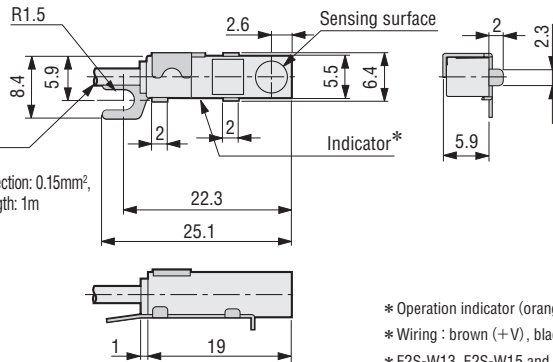
Various Products Information

With mounting bracket attached

Vinyl insulation round type cord
φ2.9, vinyl-insulated round cable with 2 / 3 conductors (conductor cross section: 0.15mm², insulator diameter: 0.9 mm), standard length: 1m



Shape: Unshield



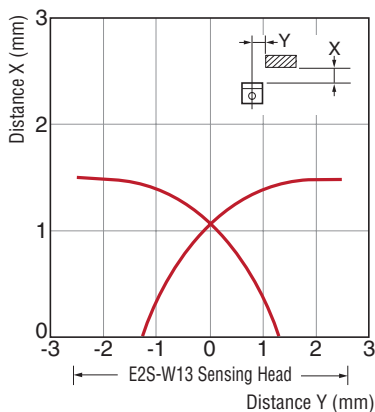
- * Operation indicator (orange)
- * Wiring : brown (+V), black (load), blue (0V)
- * E2S-W13, E2S-W15 and E2S-W13-R-S have the same size.

Input/output stage circuit diagram

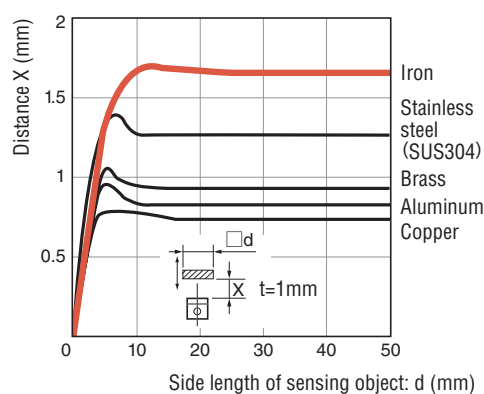
TYPE	Operation mode	Output system	Timing chart	Output circuit
E2S-W13 (NPN) E2S-W13-R-S (NPN)	NO	NPN	Sensing object Present Not present Output transistor (Load) ON OFF Operation indicator (orange) ON OFF	
E2S-W15 (PNP)	NO	PNP	Sensing object Present Not present Output transistor (Load) ON OFF Operation indicator (orange) ON OFF	

Technical characteristics (typical example)

Sensing area



Influence of sensing object size and material





Multi AND Board

Combine multiple sensors to create one output to robot



Eight-point specification

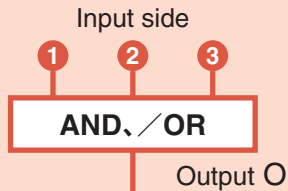
Multi AND board

Order code No.	002161
TYPE	AND/OR-EU

● Weight : 115g

- ▶ Just connect a sensor. The easy design allows minimum wiring and space saving.
- ▶ Switching AND and /OR outputs is easy and quick. Just slide the select switch at the unit.
- ▶ The protective circuit prevents problems with overloads.

About "AND" and "/OR"



AND

Output O is turned on when all the inputs (1 2 3) are ON.

/OR

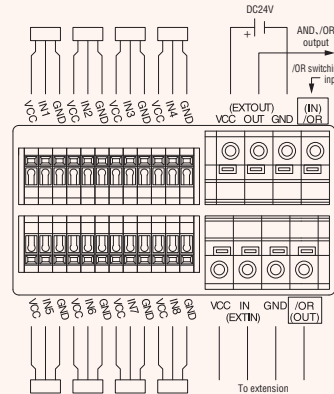
Output O is turned on when all the inputs (1 2 3) are OFF.

Specification

Max. number of connection sensors	Power supply voltage (V)	Internal consumption current (mA)	Sensor input terminal (mA)
8	DC24 (± 10%)	100 or less (DC24V)	10 or less / one point
Surrounding humidity (%)	Surrounding temperature (°C)	Operation condition	
35-80 (non-condensing)	0-40	No particulate and corrosive gas	

* Can be extended to 32 points.

Wiring specification



Connection method

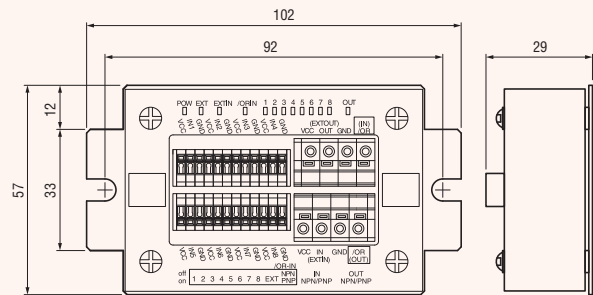
- ① Push down the button with tools such as minus driver.
- ② Put the stripped electric wire into the wire insert hole of the terminal block.
- ③ Release the button. And connection completed.

* Be sure to insert a wire into the hole.

Diameter of electric wire

Sensor input terminal AWG28-AWG22
Power supply input, signal output terminal / extension AWG26-AWG22
* Stripped wire length of each terminal is 10mm.

Outside dimension / mounting dimension

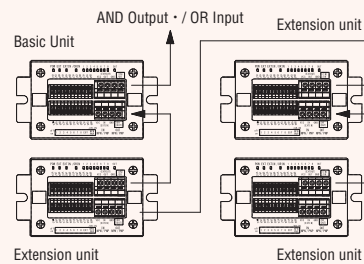


VCC 24V(+) GND 24G(-) IN signal

* 2-φ6 (mounting hole) : M4-M5

* Use the mounting washer (φ 10mm or less) for M5.

Extension Configuration

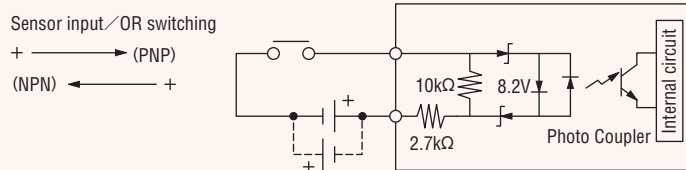


When the power supply voltage becomes less than 21V, the power indicator light will become dark, and please check the power supply to this unit.

- The extension unit could be extended up to 3 units to the basic unit.
- Please wire for AND Output / OR Input.
- The / or input of the extension unit will match the polarity of all units at / OR-IN the dip switch.
- The OUT of extension unit should be set to the NPN side.

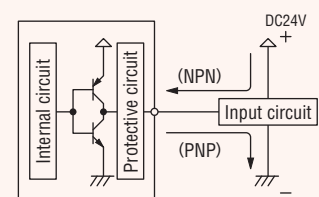
* Please add the basic unit if extension unit is more than 3.

Sensor input OR switching input circuit configuration (8-point, 4-point common)



- * Select the input setting with the switch as illustrated according to the output circuit specification of the customer's sensor.
- * Select the input with the DIP switch as illustrated according to the output circuit specification of the customer.

Configuration of output circuit (8-point, 4-point common)



- * Select NPN/PNP as illustrated above according to the input circuit specification of the customer.



You can see moving images of products by using QR code reader of your smartphone.



Four-point specification

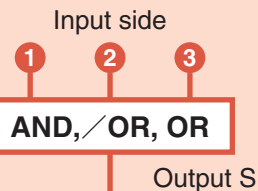
Multi AND board 4P

Order code No.	002237
TYPE	AND/OR-EU-4P

● Weight : 58g

- ▶ Just connect a sensor. The easy design allows minimum wiring and space saving.
- ▶ Product hold condition check and product release condition check can be switched by switching AND output, /OR output, and OR output. Product hold condition and product release condition can be checked by one unit.
- ▶ The protective circuit prevents problems with overloads.

About "AND", "/OR", and "OR"



AND

Output S is turned on when all the inputs (1, 2, 3) are ON.

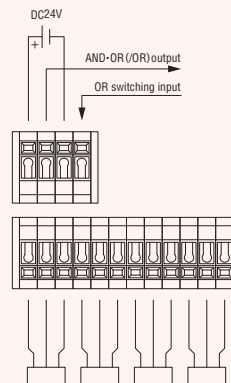
/OR

Output S is turned on when all the inputs (1, 2, 3) are OFF.

OR

Output S is turned on when either of input (1, 2, 3) is ON.

Wiring specification



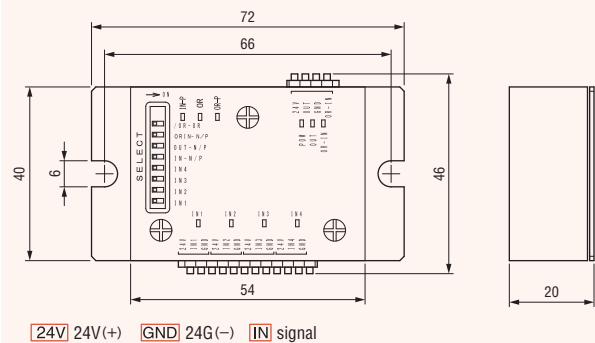
Connection method

- ① Push down the button with tools such as minus driver.
 - ② Put the stripped electric wire into the wire insert hole of the terminal block.
 - ③ Release the button. And connection completed.
- * Be sure to insert a wire into the hole.

Diameter of electric wire

Sensor input terminal AWG28-AWG22
Power supply input, signal output terminal / extension AWG26-AWG22
* Stripped wire length of each terminal is 10mm.

Outside dimension / mounting dimension



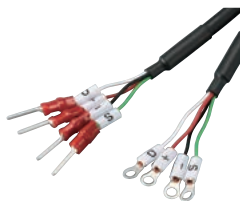
* 2-φ6 (mounting hole) : M4-M5

* Use the mounting washer (φ10mm or less) for M5.

Specification

Max. number of connection sensors	Power supply voltage (V)	Internal consumption current (mA)	Sensor input terminal (mA)	Surrounding humidity (%)	Surrounding temperature (°C)	Operation condition
4	DC24 (±10%)	50 or less (DC24V)	10 or less / one point	35-80 (non-condensing)	0-40	No particulate and corrosive gas

▶ Connecting cable for Eins Multi AND Board

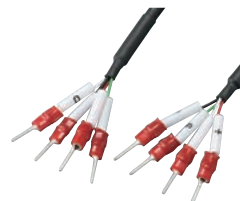


Eight-point specification

Connection harness • for multi AND boards

Order code No.	123106
TYPE	MAND-EH05 • 500MM

● Overall length : 500mm

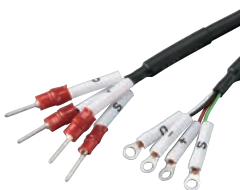


Eight-point specification

Connection harness • for multi AND boards

Order code No.	123105
TYPE	MAND-EH02 • 200MM

● Overall length : 200mm



Eight-point specification

Connection harness • for multi AND boards

Order code No.	123107
TYPE	MAND-EH10 • 1000MM

● Overall length : 1,000mm



Triplex cable (5m)

Order code No.	171292
TYPE	RMCV-0 0.3SQ*3C 5M

● Overall length : 5,000mm

Quick Chuck Change

Quick Chuck Change Manual

Quick Chuck Change Manual (OM Type)

Tool Changer

Automated Hand Exchange System

Grip

Mini Cylinder

Accessories for Mini Cylinder

Container Cylinders

Accessories for Container Cylinder

Grippers

Rubber Material / Grip Pad

Suction

Suction Cups

Suction Stems

Pad in Pad

Vacuum Gripper

Air Ejector / Filter / Check Valve

Ultra Small Part Take Out

Vacuum Generator Unit

Cut

Air Nipper (Small-Medium)

Air Nipper (Large)

Frame / Module

Jungle Gym

Let's Joint

Rectangular Tube

Base Aluminum Material

Sliding Chuck

Pneumatic Components / Sensors

Pneumatic Components

Sensors / Multi AND Board

PCIO Communication Unit

Lightweight Parts Series

Frame / Section / Resin Cylinders / Pads / Resin Manifolds

By Industry

Logistics-Palletizing / Sheet Metal-Stamping- Metal Fabrication

Assembling Tools

Tool / Jig

Information

Various Products Information



PCIO Communication Unit

Two power lines allows simple wiring between units for power supply and input/output communication

- ▶ Two power lines allows simple wiring between units for power supply and input communication.
- ▶ Input signal reception with sink/source specifications.
- ▶ Two types according to the number of input/output points : 16 points (eight/eight) and 32 points (16/16).

Specification

	E-PCIO-UNIT16	E-PCIO-UNIT32
Power supply voltage	DC24V (± 10%)	
System consumption current	2A or less	
Internal consumption current	100mA or less (DC24V)	180mA or less (DC24V)
Output current	100mA (Max) / one point	50mA (Max) / one point
Input current	5mA or less / one point	
Surrounding humidity	35%~80% (non-condensing)	
Surrounding temperature	0-40°C	
Operation condition	No particulate and corrosive gas	



Power Communication I/O unit(16)

Order code No.	152312
TYPE	E-PCIO-UNIT 16

● Weight : 97g

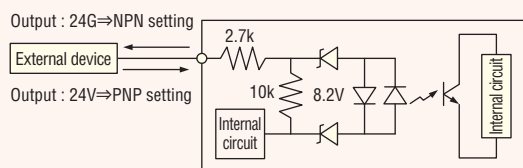
Power Communication I/O unit(32)

Order code No.	152313
TYPE	E-PCIO-UNIT 32

● Weight : 131g

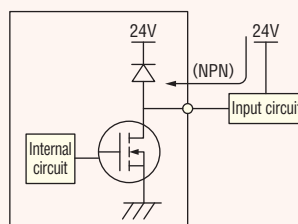
Configuration of Input circuit

Input switch



* Please switch the switch according to the output specifications of the customer, referring to the above figure.

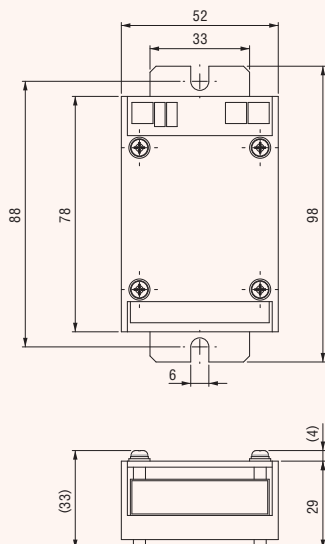
Configuration of output circuit



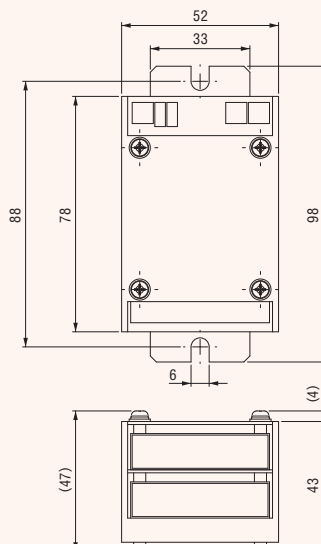
* Only NPN is used for the output specification of the unit.

Outside dimension / mounting dimension

E-PCIO-UNIT 16



E-PCIO-UNIT 32



PCIO communication harness (03)

Order code No.	152314
TYPE	E-PCIO-HNS 03

● Harness length : 300mm



PCIO marktube

Order code No.	041770
TYPE	E-PCIO-MKT SET

● 2 set