CSS·CS
SERIES

Slim designed small type handheld enclosures
with built-in coin cell battery compartment.
Suitable for IOT device, Remote controller, Portable GPS,
Wireless key-fob, RFID tag, small device, and so on.
4 different sizes with 14 color variations each are available.

● Built-in battery compartment

NEW SIZE
for CR2450/CR2477

NEW COLOR

| Black | Light gray | Pink | Yellow | Orange | Green | Cyan |

APPLICATION EXAMPLE

MOTOR SPORT INFRARED LAPTIMER (BLUETOOTH 4.0 & ANDOROID APPLICATION)

Product by General Mechatronics (Hungary)

BLUETOOTH TEMPERATURE DATA LOGGER

Product by Almendo Technologies (Germany)

G TRIP-TRIP SENSOR for RELAY TESTER

Product by Musashi Intech (Japan)

WIRELESS ROMOTE CONTROL SWITCH

Product by Herutu Electronics Corporation (Japan)

HANDI QUILTER EASY-SET TENSION™ Kit

Product by Handi Quilter, Inc (USA)

WIRELESS MICROPHONE for HEARING AID

Product by Audinor AS (Norway)

AC - USB NOISE REMOVER
Product by Spec (Japan)

NPA - HIGH FREQUENCY PREAMPLIFIER
Product by Natec (Japan)

INDOOR ENVIRONMENT SENSOR
Product by Bunny Hop (Japan)

WANDERING DETECTION SENSOR
Product by Tecnos Japan (Japan)

SERIAL ROM WRITER
Product by Soliton Wave (Japan)

EGM - RFID READER
Product by e-Tech (Japan)

HONEYBEE PROXIMITY SWITCH
Product by ADAPTIVATION (USA)

KP-IOTLT - RESTROOM MONITOR
Product by Kyohritsu Electronic Industry (Japan)

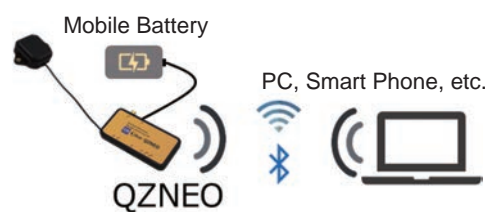# HID RFID READER/ WRITER
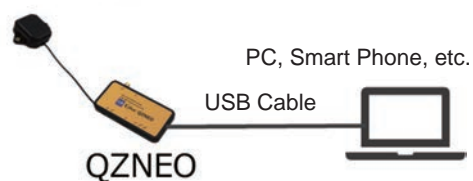**Product by ART Finex (Japan)**

MULTI POSITIONING SENSOR
Product by CORE (Japan)

Wireless Connection

Mobile Battery

PC, Smart Phone, etc.

QZNEO

Wired Connection

PC, Smart Phone, etc.

USB Cable

QZNEO

CS SERIES   PORTABLE PLASTIC CASE

NEW SIZE

- New CS100 model compatible with CR2450/CR2477 batteries is now available.
- Easy replacement of batteries. Battery contact included in each case (except for N type).
- Select proper models by enclosure dimensions and capacity of the batteries.
  Typical Capacity : CR2032 : 225mAh / CR2450 : 620mAh / CR2477 : 1000mAh
- Suitable for remote controller, wireless key fob, or small tester/device, and so on.
- Available in 4 sizes with 8 models and selectable in 2 different color types (Black or White).

| Technical Data |
| --- |
| Protection class: IP40
Operating temperature: -10°C ~ +60°C |

CS75N/CS90N/CS100N/CS115N (No battery compartment type)

1   **2**   **5**
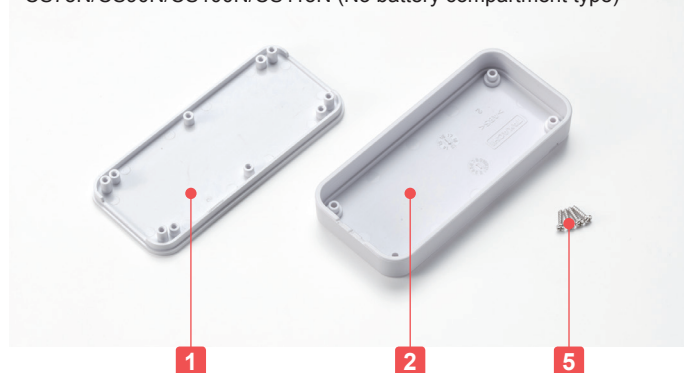
CS75/CS90/CS100/CS115 (Battery compartment type)

1   **4**   **2**   **5**   **3**

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB	White • Black
2	Bottom cover	1	ABS UL94HB	White • Black
3	Battery cover	1	ABS UL94HB	White • Black
4	Battery contact	1 set / 2 sets (CS115)	Stainless steel SUS304	Nickel plated
5	Self tapping screw	4	Steel M1.6-6	Nickel plated • Black trivalent chromate

Accessories (Optional parts)
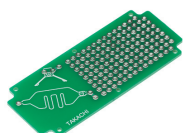
Exclusive PCB CSPB series
See page CSPB • EM • MR-1
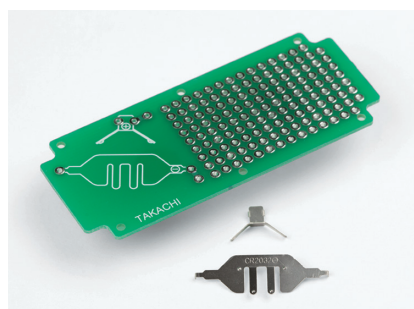
Strap STPS series
See page STPS-1

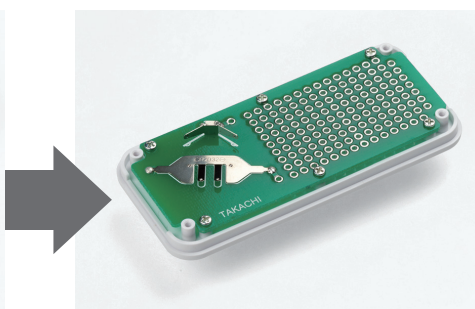PCB mounting screw EM-1.6
See page CSPB • EM • MR-1

TORX screw MR1.6-6S
See page CSPB • EM • MR-1

Coin battery contact installation instructions

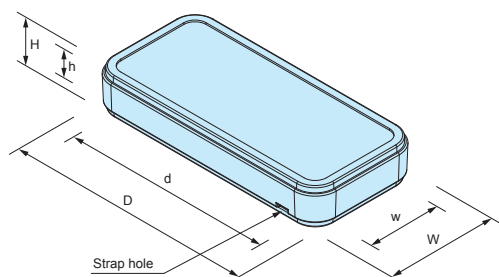
| Soldering the contacts on PCB | Installing PCB on top cover | All set |

■ Exclusive PCB is available as an optional part. See page CSPB-1 for more details.Refer to drawings on page CSPB-1 for suitable PCB dimensions and screw hole layout.
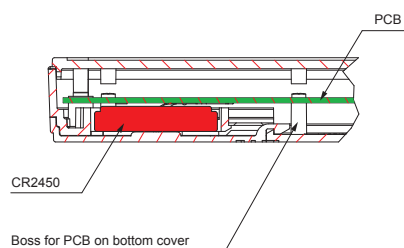
CS dimensions

■ Detailed DXF/DWG/PDF drawings available online.

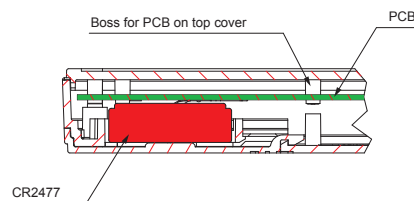| Type	CS N Type	CS75/CS90	NEW CS100 *1	CS115
Battery compartment	None	CR2032 × 1	CR2450 × 1 or CR2477 *2 × 1	CR2032 × 2

*1 CS100 battery type varies by pcb placement: CR2450 with PCB on bottom cover, or CR2477 with PCB on top cover. See below for the details.
*2 Not compatible with Renata CR2477N battery

CR2450 × 1 on CS100 (PCB on bottom cover)

CR2477 x 1 on CS100 (PCB on top cover)

*Not compatible with Renata CR2477N battery

Product no. / Dimensions

■ Please suffix color code at the end of the product number.

Product no.		External dimensions			Internal dimensions			Battery compartment	Weight (g)
● Black	○ White	W	H	D	w	h	d		
CS 75N-B	CS 75N-W	35	12	75	26.6	5.3	59	None	12
CS 75 -B	CS 75 -W	35	12	75	26.6	5.3	25.4	CR2032×1	13
CS 90N-B	CS 90N-W	45	12	90	36.6	5.3	74	None	18
CS 90 -B	CS 90 -W	45	12	90	36.6	5.3	40.4	CR2032×1	20
NEW CS100N-B	NEW CS100N-W	50	16.8	100	41.6	10.1	82	None	24
NEW CS100 -B	NEW CS100 -W	50	16.8	100	44.1	6.8	46	CR2450×1 / CR2477×1	26
CS115N-B	CS115N-W	63	12	115	54.6	5.3	98	None	30
CS115 -B	CS115 -W	63	12	115	54.6	5.3	64.9	CR2032×2	33

CS-2

TAKACHI

CSSC SERIES | SILICONE COVER

NEW SIZE
NEW COLOR

Silicone Cover Type

Code	CL Closed	OP Open
Shape		

- 2 types of silicone cover which have with (Open) and without (Closed) rectangular cutout on the front side; selectable in 7 different colors.

- Custom color is available from 200pcs per order batch. For 500pcs or more, manufacture costs will be similar to a standard color. For custom color order, please specify **PANTONE**®, RGB color number, or provide your sample color.
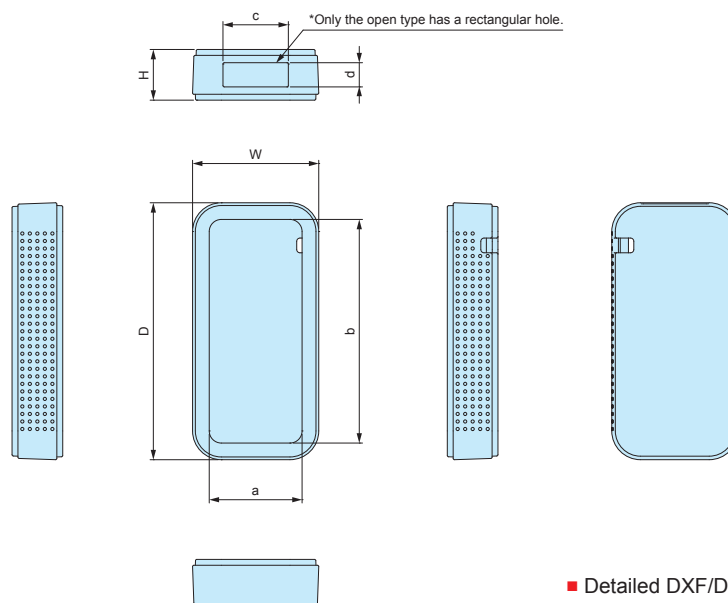
Color Type

Code	P Pink	Y Yellow	NEW O Orange	G Green	C Cyan	L Light gray	B Black
Color							

*Color type P and Y will be discontinued by the end of October, 2021.
*Color type P and Y are not available for CSSC100 models.

CSSC dimensions

*Only the open type has a rectangular hole.

- Detailed DXF/DWG/PDF drawings available online.

Components

Part name	Material	Color
Silicone cover	Silicone	Pink • Yellow • Orange • Green • Cyan • Light gray • Black

Product no. / Dimensions

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	Suitable case	Weight (g)
CSSC 75-CL -□	38.6	15.5	78.6	28.4	68.4	—	—	CS 75	12
CSSC 75-OP-□	38.6	15.5	78.6	28.4	68.4	20	7.4	CS 75	12
CSSC 90-CL -□	48.6	15.5	93.6	37.4	82.4	—	—	CS 90	18
CSSC 90-OP-□	48.6	15.5	93.6	37.4	82.4	30	7.4	CS 90	17
NEW CSSC100-CL-□	54.1	20.8	104.1	42.4	92.4	—	—	CS100	28
NEW CSSC100-OP-□	54.1	20.8	104.1	42.4	92.4	33	12.2	CS100	27
CSSC115-CL-□	67.1	16	119.1	55.4	107.4	—	—	CS115	32
CSSC115-OP-□	67.1	16	119.1	55.4	107.4	45	7.4	CS115	31

TAKACHI

CSS SERIES — PORTABLE PLASTIC CASE with SILICONE COVER

NEW SIZE
NEW COLOR

- Small plastic case with silicone cover. Strong against drop impact while providing a secure grip.
- New CSS100 models compatible with CR2450/CR2477 batteries now available.
- Select proper models by enclosure dimensions and capacity of the batteries.
  Typical Capacity : CR2032 : 225mAh / CR2450 : 620mAh / CR2477 : 1000mAh
- Suitable for remote controller, wireless key fob, small tester/device and so on.
- Available in 4 sizes with 8 models and selectable in 14 different color combinations.
- 2 types of silicone cover available with (Open) and without (Closed) rectangular cutout on the top side.
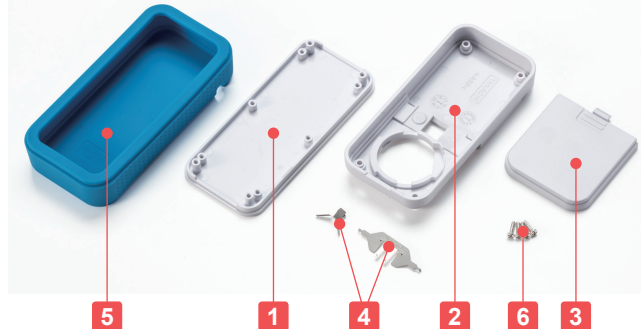
Technical Data
Protection class: IP40
Operating temperature: -10°C ~ +60°C

### CSS75N/CSS90N/CSS100N/CSS115N (No battery compartment type)

[5] [1] [2] [6]

CSS75/CSS90/CSS100/CSS115 (Battery compartment type)

[5] [1] [4] [2] [6] [3]

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB	White • Black
2	Bottom cover	1	ABS UL94HB	White • Black
3	Battery cover	1	ABS UL94HB	White • Black
4	Battery contact	1 set / 2 sets (CSS115)	Stainless steel SUS304	Nickel plated
5	Silicone cover	1	Silicone	Pink • Yellow • Orange • Green • Cyan • Light gray • Black
6	Self tapping screw	4	Steel M1.6-6	Nickel plated • Black trivalent chromate

Accessories (Optional parts)
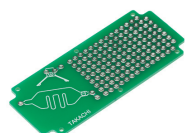
Exclusive PCB CSPB series
See page CSPB • EM • MR-1

Strap STPS series
See page STPS-1

PCB mounting screw EM-1.6
See page CSPB • EM • MR-1

TORX screw MR1.6-6S
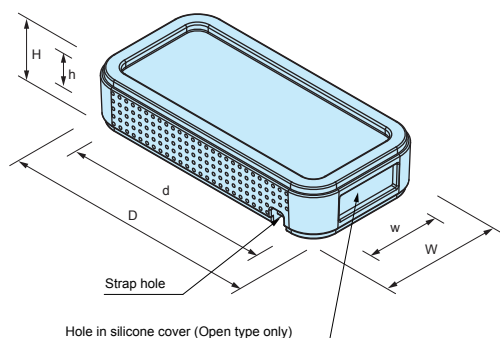See page CSPB • EM • MR-1

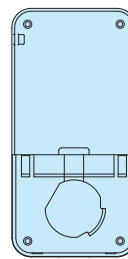## Silicone Cover Type

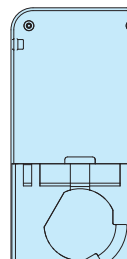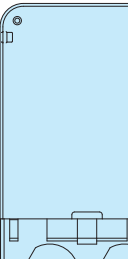| Code	CL Closed	OP Open
Shape		

Color Type

Code	BP Black / Pink	BY Black / Yellow	NEW BO Black / Orange	BG Black / Green	BC Black / Cyan	BL Black / Light gray	BB Black / Black
Color							

Code	WP White / Pink	WY White / Yellow	NEW WO White / Orange	WG White / Green	WC White / Cyan	WL White / Light gray	WB White / Black
Color							

*Color type BP, WP, BY, and WY will be discontinued by the end of October, 2021.
*Color type BP, WP, BY, and WY are not available for CSS100N and CSS100 models.

CSS dimensions

Strap hole

Hole in silicone cover (Open type only)

■ Detailed DXF/DWG/PDF drawings available online.

Type	CSS N Type	CSS75/CSS90	NEW CSS100 *1	CSS115
Battery compartment	None	CR2032 × 1	CR2450 × 1 or CR2477 *2 × 1	CR2032 × 2

*1 CSS100 battery type varies by pcb placement: CR2450 with PCB on bottom cover, or CR2477 with PCB on top cover. See page CS-2 for the details.
*2 Not compatible with Renata CR2477N battery

Product no. / Dimensions

■ Please suffix color code at the end of the product number.

| Product no.	External dimensions			Internal dimensions			Battery compartment	Weight (g)
	W	H	D	w	h	d		
CSS 75N -CL -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	59	None	24
CSS 75N -OP-□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	59	None	24
CSS 75 -CL -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	25.4	CR2032×1	25
CSS 75 -OP-□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	25.4	CR2032×1	25
CSS 90N -CL -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	74	None	36
CSS 90N -OP-□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	74	None	35
CSS 90 -CL -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	40.4	CR2032×1	38
CSS 90 -OP-□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	40.4	CR2032×1	37
NEW CSS100N -CL -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	41.6	10.1	82	None	52
NEW CSS100N -OP-□□	54.1 (50)	20.8 (16.8)	104.1 (100)	41.6	10.1	82	None	51
NEW CSS100 -CL -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	44.1	6.8	46	CR2450×1 / CR2477×1	54
NEW CSS100 -OP-□□	54.1 (50)	20.8 (16.8)	104.1 (100)	44.1	6.8	46	CR2450×1 / CR2477×1	53
CSS115N -CL -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	98	None	62
CSS115N -OP-□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	98	None	61
CSS115 -CL -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	64.9	CR2032×2	65
CSS115 -OP-□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	64.9	CR2032×2	64

■ ( ) value = enclosure dimension.

CSPB SERIES — EXCLUSIVE PCB for CS • CSS
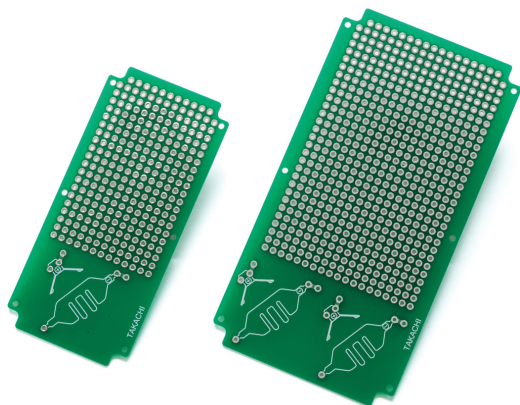
- Exclusive PCB for CS • CSS case.
- Glass epoxy board (FR-4), through-hole on both sides and 2.54mm hole distance.
- Prefabricated holes for battery contact use with CS • CSS case. The contact directions are printed on the PCB.
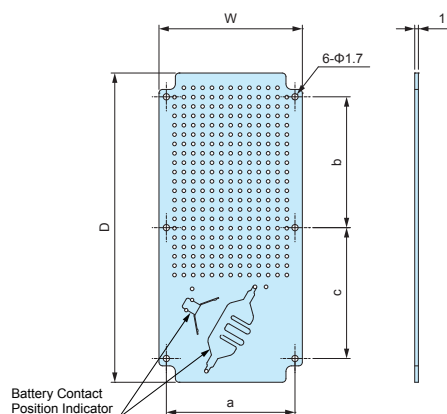
Soldering the battery contacts (included with each case) onto the PCB.
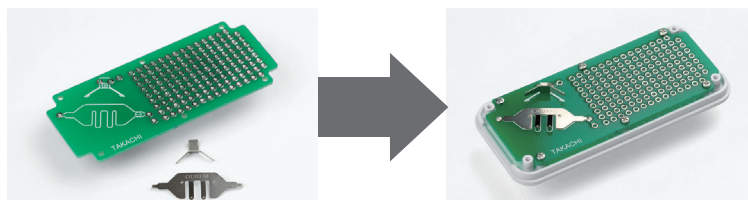
Components

Part name	Pcs	Material	Color / Finish
PCB	1	Glass epoxy (FR-4) t=1.0	Through-hole • Lead-free solder • Solder resist
Self tapping screw	6	Steel M1.6	Trivalent chromate

CSPB dimensions

Battery Contact Position Indicator

Note : Holes (6-Φ1.7) for PCB mount bosses are un-soldered.

Product no. / Dimensions

Product no.	W	D	a	b	c	Suitable case
CSPB- 75	28.9	68.9	24.9	28	28	CSS 75 • CS 75
CSPB- 90	38.9	83.9	34.9	35.5	35.5	CSS 90 • CS 90
NEW CSPB-100	45	94	38	31	38	CSS100 • CS100
CSPB-115	56.9	108.9	52.9	47.5	47.5	CSS115 • CS115

Battery Contact Position Indicator on CSPB-115

- Detailed DXF/DWG/PDF drawings available online.

EM-1.6 — PCB MOUNTING SCREW
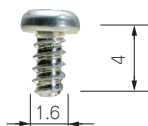
- Self-tapping screws for mounting PCB on bosses or standoffs.

Product no. / Dimensions　　■ Material / Finish: Steel / Trivalent chromate

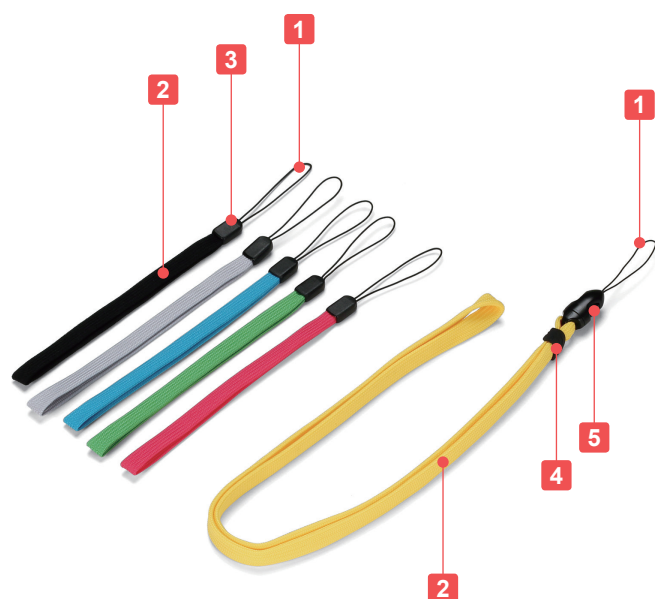| Product no.	Suitable case	Pack of
EM-1.6	CSS • CS	50

MR1.6-6S — HEXALOBULAR (TORX) SOCKET HEAD SCREW
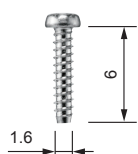
- Recommended to be used for tamper resistance.
- Requires the use of a torx screwdriver.

Product no. / Dimensions

Product no.	Drive size	Head style	Suitable case	Pack of
MR1.6-6S	T3	Pan	CSS • CS	20

CSPB • EM • MR–1

STPS SERIES   STRAP

APPLICATION EXAMPLE

Wrist strap (STPS-140G)   Neck strap (STPS-450C)

- Colorful and sturdy straps best used with CSS, CS and PS series.
- Wrist and Neck straps are available in 6 unique colors.
- Neck strap comes with a quick-release joint, making removal or attachment quick and easy.

Quick-release joint
(Neck strap only)

Color Type

Code	P Pink	Y Yellow	G Green	C Cyan	L Light gray	B Black
Color						

*Color type P and Y will be discontinued by October, 2021.
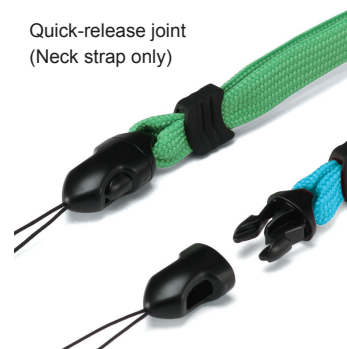
Components

No.	Part name	Material	Color
1	String	Polyester	Black
2	Strap	Polyester	Pink • Yellow • Green • Cyan • Light gray • Black
3	Cap (wrist strap only)	Nylon	Black
4	Clamp (neck strap only)	Elastomer	Black
5	Joint (neck strap only)	Polyacetal	Black

Product no. / Dimensions

| Product no.						Strap width	Strap length
⬤ Pink	⬤ Yellow	⬤ Green	⬤ Cyan	⬤ Light gray	⬤ Black		
STPS-140P	STPS-140Y	STPS-140G	STPS-140C	STPS-140L	STPS-140B	8	140
STPS-450P	STPS-450Y	STPS-450G	STPS-450C	STPS-450L	STPS-450B	10	450

CST SERIES | **BATTERY CONTACT**
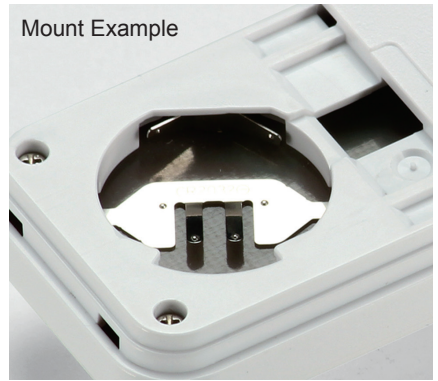
■ Battery contact for CR2032, CR2450, and CR2477 coin cells.

■ CST-2450 is not compatible with Renata CR2477N battery.

■ CSS and CS series enclosures comes with appropriate battery contacts. Use CST series as spares or replacements.

Product no. / Feature

Product no.	Matching coin cell	Material / Finish	Contact type	Pack of
CST-2032P	CR2032	SUS304 / Nickel plated	Through hole x 2	10
CST-2032M	CR2032	SUS304 / Nickel plated	Through hole x 2	10
NEW CST-2450P	CR2450 / CR2477	SUS304 / Nickel plated	Through hole x 2	10
NEW CST-2450M	CR2450 / CR2477	SUS304 / Nickel plated	Through hole x 2	10

■ Detailed DXF/DWG/PDF drawings available online.

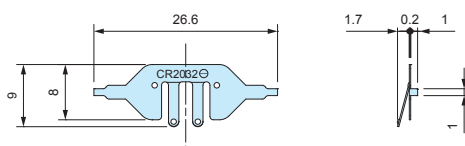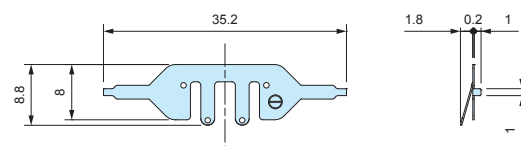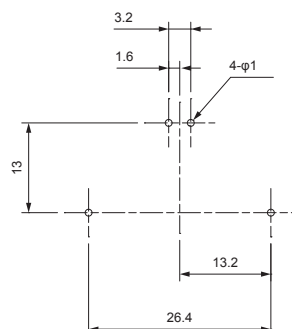■ Refer to the photos for the contact direction when installing.

CST-2032P
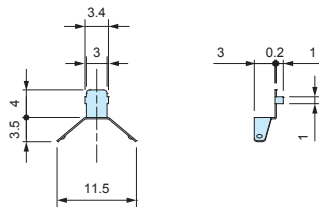
CST-2450P
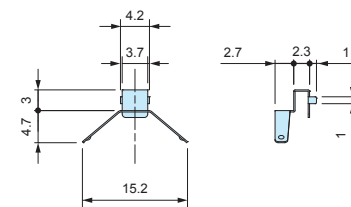
CST-2032M

CST-2450M

Recommended PCB hole layout

Recommended PCB hole layout

CST–1