



SHALLIN

NEW ITEMS

SHALLIN

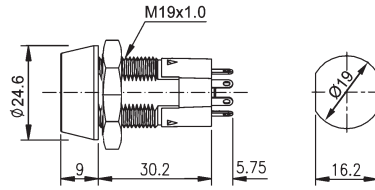
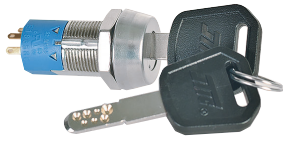
IPEX MHF CONNECTORS

MICRO-MATCH CONNECTORS

MINI POWER CONNECTORS



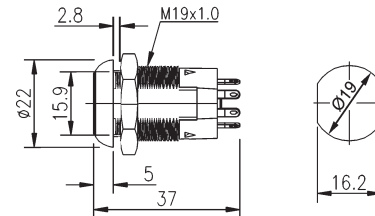
SINCE 1977

B09451 - B09454Keylock switch
125V 4A (250V 2A)

Zinc alloy die cast housing

Item#	Terminals	Key pulls	Turn	
B09451	3	1	90°	on on
B09453	4	1	45°	on on on
B09454	4	1	45°-0°-45°	on on on

• Many combinations available

B09461 - B09466Keylock switch
125V 4A (250V 2A)

Zinc alloy die cast housing

Item#	Terminals	Key pulls	Turn	
B09461	3	1	90°	on on
B09463	4	1	45°	on on on
B09464	4	1	45°-0°-45°	on on on
B09466	6	2	90°	on on

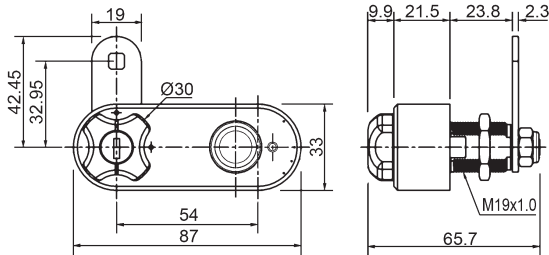
• Many combinations available

B09960Fingerprint identification
cabinet lock20 Groups of
Fingerprints

USB Rechargeable

High performance
chip

Automatic storage



Zinc alloy housing with bright chrome plating

Features:

- LED light and buzzer operation guidance
- Low battery alert supported
- External USB port for recharge & emergency power

Specifications:

- Sensor resolution: 176x176
- Fingerprint sensor: Capacitive type sensor
- Fingerprint capacity: 20 sets
- Lithium-ion polymer battery: 3.7V/500mAh
- Battery life: 1 year or 2500 lock/unlock actions after full charging
- 2 keys each lock

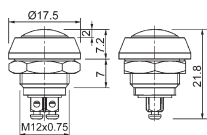
Add fingerprint:

1. At unlock position and press the fingerprint lock panel, when blue light is on then hold until the blue light is always on and with long beep 1 time, then remove.
2. The purple light flashes, start fingerprint entry.
3. Press the fingerprint lock panel until the blue light is on and beep 1 time, then remove.
4. Repeat step 3 for 5 times to collect the same finger, and the fingerprint is collected successfully.
5. The green light is on, the entry is successful; the red light is on, the entry fails.

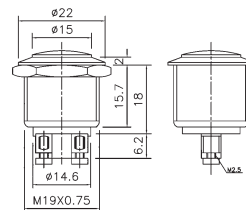
Delete fingerprint:

1. At unlock position and press the fingerprint lock panel, when blue light is on then hold until the white light is always on and with beep 3 times (green light flashes and purple light is on during the period).
2. Continue hold until green/red/blue light is switching around 5 seconds.
3. After the white light is always on and with long beep 1 time, then green light flashes 3 times, the fingerprint is deleted successfully.

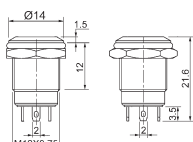
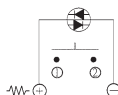
B169HA
2P metal pushbutton switch
36V 2A (SPST) off-(on)
can reach to IP65



B169Q
2P metal pushbutton switch
125V 4A / 250V 2A
(SPST) off-(on)
can reach to IP65

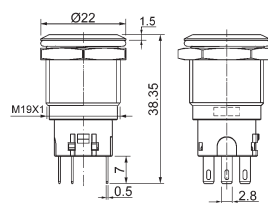


B169HD
2P illuminated metal pushbutton switch W/LED
36V 2A (SPST) off-(on)
can reach to IP65



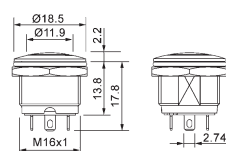
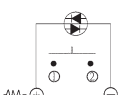
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

B169TC
3P illuminated metal pushbutton switch W/LED
250V 3A (SPDT) on-(on)
can reach to IP65



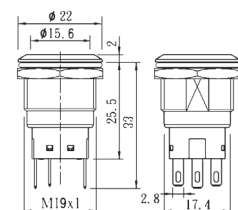
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

B169MA
2P illuminated metal pushbutton switch W/LED
36V 2A (SPST) off-(on)
can reach to IP67



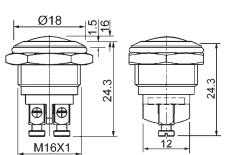
LED volt:6V/12V/24V
LED color:red yellow green
blue white

B169TD (B169TA)
3P illuminated metal pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP67

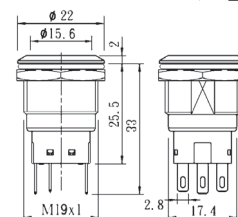


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

B169NA
2P metal pushbutton switch
36V 2A (SPST) off-(on)
can reach to IP65

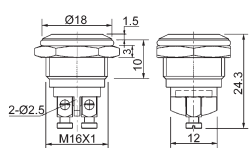


B169TE (B169TB)
3P illuminated metal pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP67

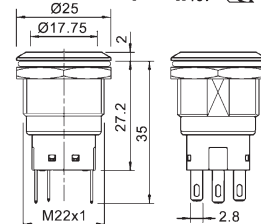


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

B169NB
2P metal pushbutton switch
36V 2A (SPST) off-(on)
can reach to IP65

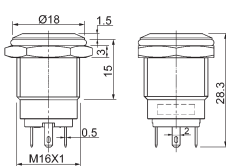
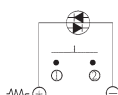


B169WD (B169WA)
3P illuminated metal pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP67



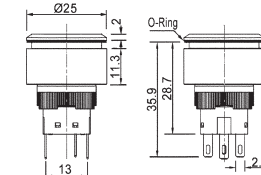
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

B169NC
2P illuminated pushbutton switch W/LED
36V 2A (SPST) off-(on)
can reach to IP65



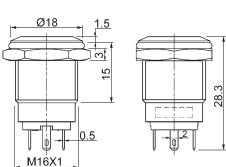
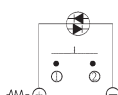
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

B169WF
3P illuminated pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP65



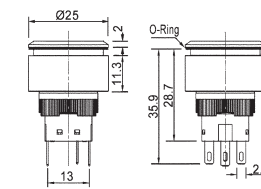
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

B169ND
2P illuminated metal pushbutton switch W/LED
36V 2A (SPST) off-(on)
can reach to IP65

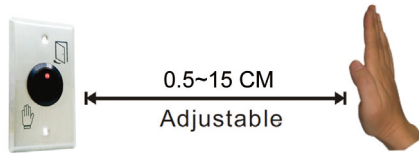


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

B169WG
3P illuminated pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP65



LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white



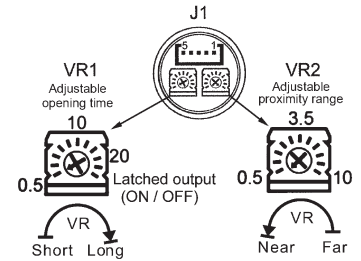
Item No.	B169ZA~B169ZK	B169ZL
Power supply	DC10~24V (DC/AC10~24V : B169ZB/G/L)	
LED (Power on)	red	green
LED (Proximity)	blue	blue
Adjustable opening time	0.5~20Sec.	0.5~15Sec.
	Latched ON or OFF	
Protection degree	IP65 (IP54 B169ZD)	-
Relay contact rating (Standard: 1A/30VDC)	0.3A/125VAC(B169ZA/B/G/H) 0.5A/125VAC(B169ZC/D/K)	2A/120VAC
Electrical / Mecanical (min.)	100,000 / 50,000,000 (B169ZA/B/G/H) 100,000 / 10,000,000 (B169ZC/D/K/L)	

Pin assignment

J1—Power and relay output			
	Pin	Color	Function
	1	Red	DC+ / L
	2	Black	DC- / N
	3	Grey	COM.
	4	Brown	N.O.
	5	Yellow	N.C.

VR1—Adjustable opening time. (Unit: Sec.)	
	Adjustable opening time: 0.5~20 Sec. Latched ON or OFF: Turn right to the end (Default: 0.5 Sec.)

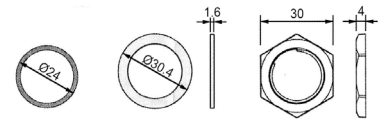
VR2—Adjustable proximity range. (Unit: cm)	
	Adjustable proximity range 3~15cm (Default: 15 cm)
	Adjustable proximity range 0.5~10cm (Default: 0.5 cm)



Accessories

B169ZA1~B169ZD :
With washerx1, gasketx1, nutx1, 5P wire (15cm)

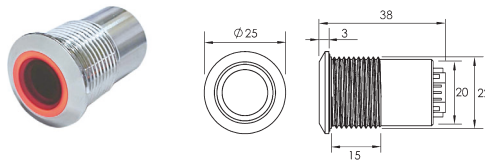
B169ZG~B169ZL :
With screwx2, 5P wire (15cm)



B169ZA1 / A2

Waterproof touchless infrared sensor switch
24VDC 33mA
Shell : Brass

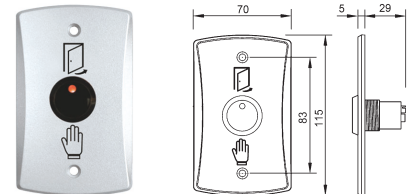
Proximity range
A1 : 0.5~10cm
A2 : 3~15cm



B169ZG

Waterproof touchless infrared sensor switch
W/US type panel
24VDC 26mA
24VAC 51mA
Panel : Zinc-alloy

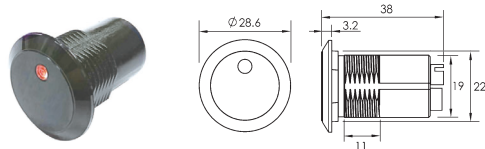
Proximity range:
3~15cm



B169ZB1 / B2

Waterproof touchless infrared sensor switch
24VDC 26mA
24VAC 51mA
Shell : PC

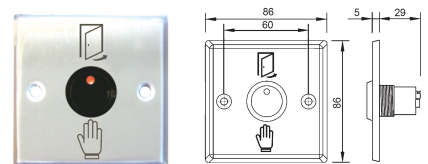
Proximity range
B1 : 0.5~10cm
B2 : 3~15cm



B169ZH

Waterproof touchless infrared sensor switch
W/Euro. type panel
24VDC 28mA
Panel : Stainless steel

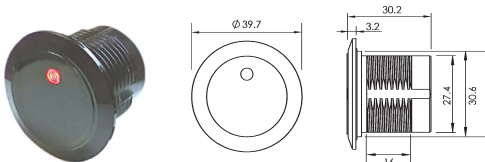
Proximity range:
3~15cm



B169ZC

Waterproof touchless infrared sensor switch
24VDC 26mA
Shell : PC

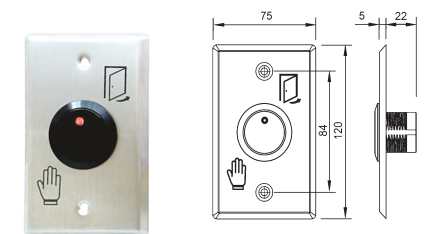
Proximity range:
3~15cm



B169ZK

Waterproof touchless infrared sensor switch
W/US type panel
24VDC 26mA
Panel : Stainless steel

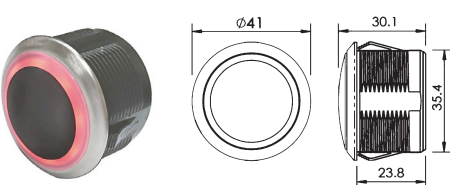
Proximity range:
3~15cm



B169ZD

Waterproof touchless infrared sensor switch
24VDC 33mA
Shell : Stainless steel+PC

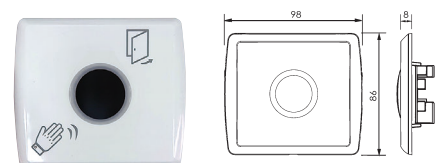
Proximity range:
3~10cm

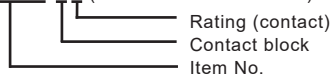


B169ZL

Touchless infrared sensor switch
W/Euro. type panel
24VDC 65mA
24VAC 110mA
Panel : ABS

Proximity range:
1.5~10cm



B18490 x x (from **B18490** to **B18495**)

Signal	A	B
Contact block	1NO1NC	2NO2NC

Signal	A	B	C	D
Contact rating (Resistive load)	110V1A	220V0.5A	24V1A	12V1A
Lamp	LED 110V2mA	LED 220V2mA	LED 24V20mA	LED 12V20mA

Lens color : red, blue, green, white, orange

Specifications

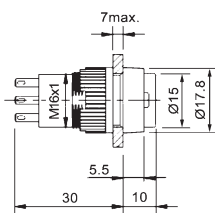
Contact resistance	50mΩ Max. (initial value)
Insulation resistance	100MΩ Min. (at 500VDC)
Dielectric strength	between non-continuous terminals: 1000VAC/1minute between current-carrying part&ground: 2000VAC/1minute
Ambient operating temperature	-25°C ~ +55°C
Humidity	45% ~ 80%RH
Mechanical life	momentary: 2,000,000 Min. alternate: 250,000 Min.
Electrical life	momentary: 100,000 Min. (1800 operations/hour) alternate: 100,000 Min. (1200 operations/hour)
Protection grade	IP40

B18490

Illuminated pushbutton switch
Alternate type

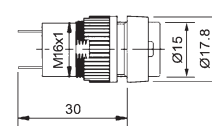
B18491

Illuminated pushbutton switch
Momentary type

**B1870A /B /C /D**
Indicator light

Signal	A	B	C	D
Rating	110V	220V	24V	12V

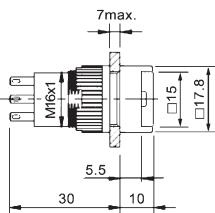
Lens color: red blue green
white orange

**B18492**

Illuminated pushbutton switch
Alternate type

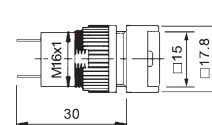
B18493

Illuminated pushbutton switch
Momentary type

**B1871A /B /C /D**
Indicator light

Signal	A	B	C	D
Rating	110V	220V	24V	12V

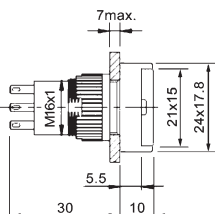
Lens color: red blue green
white orange

**B18494**

Illuminated pushbutton switch
Alternate type

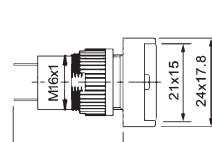
B18495

Illuminated pushbutton switch
Momentary type

**B1872A /B /C /D**
Indicator light

Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: red blue green
white orange

**B1856B /C /D**

Illuminated pushbutton switch
Alternate type

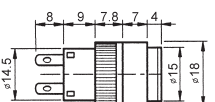
B18561B /C /D

Illuminated pushbutton switch
Momentary type



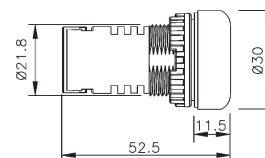
Signal	B	C	D
Rating	250V3A	24V3A	12V5A

Lens color: red blue green
orange white

**B1875A /B /C /D**
Continuous buzzer

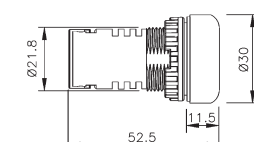
Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: black

**B1876A /B /C /D**
Buzzer indicator light
Continuous light type

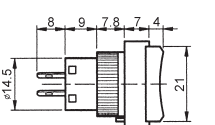
Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: red

**B1857B /C /D**
Illuminated pushbutton switch
Alternate type**B18571B /C /D**
Illuminated pushbutton switch
Momentary type

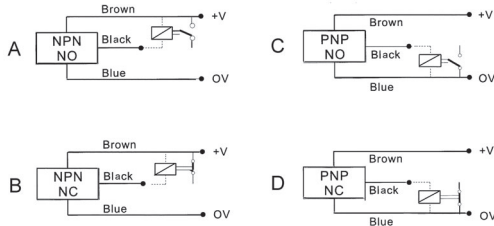
Signal	B	C	D
Rating	250V3A	24V3A	12V5A

Lens color: red blue green
orange white

**B18761A /B /C /D**
Buzzer indicator light
Flashing light type

B19430 x (from B19430 to B19436)

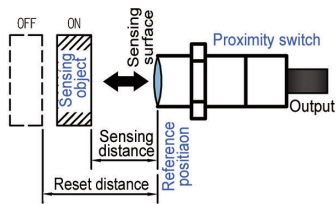
Output
Item No.



Power supply	10-30V DC
Current consumption	10mA Max.
Load current	Sink current 150mA Max.
Degree of protection	IP67
Wiring material	PVC oil resistance
Operating temperature	-20°C~70°C
Cable length	2M

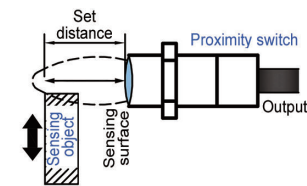
Explanation of terms:

Sensing Distance



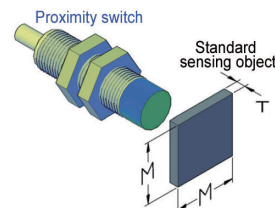
The distance from the reference position (reference surface) to the measured operation (reset) when the standard sensing object is moved by the specified method.

Set Distance



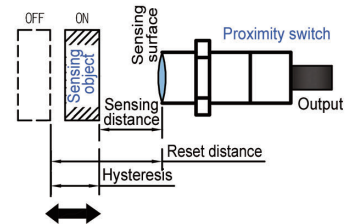
The distance from the reference surface that allows stable use, including the effects of temperature and voltage, to the (standard) sensing object transit position.

Standard Sensing Object



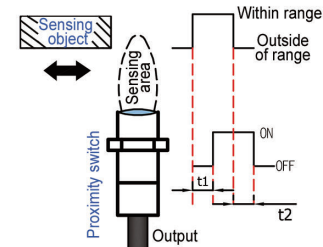
A sensing object that serves as a reference for measuring basic performance, and that is made of specified materials and has a specified shape and dimensions.

Hysteresis (Differential Travel)



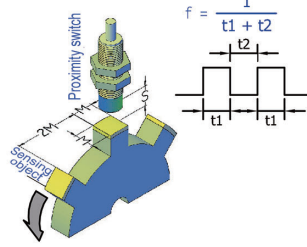
With respect to the distance between the standard sensing object and the sensor, the difference between the distance at which the sensor operates and the distance at which the sensor resets.

Response Time



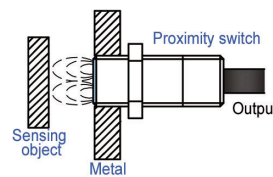
- t1: The interval from the point when the standard sensing object moves into the sensing area and the sensor activates, to the point when the output turns ON.
t2: The interval from the point when the standard sensing object moves out of the sensor sensing area to the point when the sensor output turns OFF.

Response Frequency



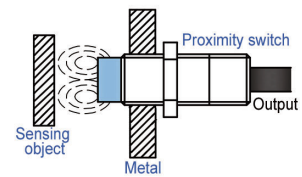
The number of detection repetitions that can be output per second when the standard sensing object is repeatedly brought into proximity.

Shielded



Magnetic flux is concentrated in front of the sensor and the sides of the sensor coil are covered with metal. The sensor can be mounted by embedding it into metal.

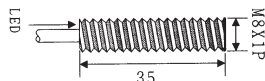
Unshielded



Magnetic flux is spread widely in front of the sensor and the sides of the sensor coil are not covered with metal. This model is easily affected by surrounding metal objects (magnetic objects), so care must be taken in selecting the mounting location.

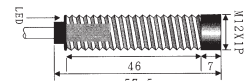
B19430

Tubular proximity switch
Sensing distance : 1mm
Response frequency : 1.5KHz
Standard object (iron) : 8x8x1t (t=1mm)



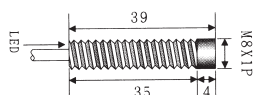
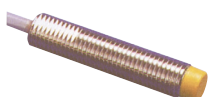
B19434

Tubular proximity switch
Sensing distance : 4mm
Response frequency : 600Hz
Standard object (iron) : 12x12x1t (t=1mm)



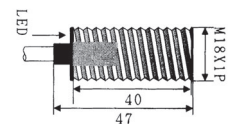
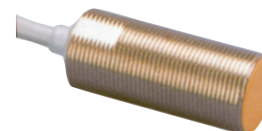
B19432

Tubular proximity switch
Sensing distance : 2mm
Response frequency : 1.5KHz
Standard object (iron) : 8x8x1t (t=1mm)



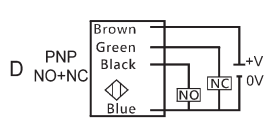
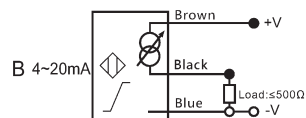
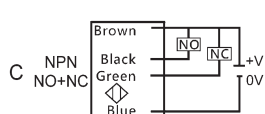
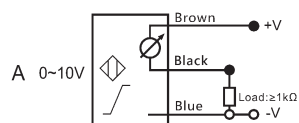
B19436

Tubular proximity switch
Sensing distance : 5mm
Response frequency : 200Hz
Standard object (iron) : 18x18x1t (t=1mm)

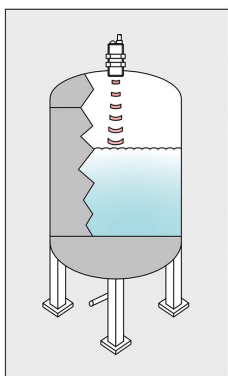


B19450 x (from B19450 to B19452)

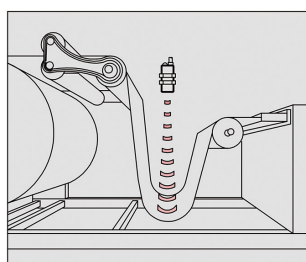
Output
Item No.



Applications :



Detecting liquid levels



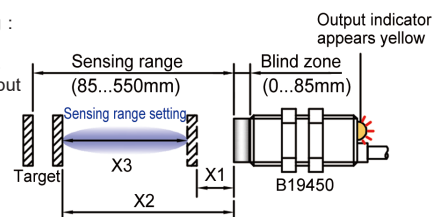
Control of sheet tension

Features :

- Ensure the stable detection of a variety of objects regardless of the color, transparency, glass, material or non-material.
- Teach-in button set up, can provide outstanding background suppression to detect objects reliably.
- Reversed polarity & short circuit protection.
- IP65 protection, high immunity to dirty, dust and fog.

Distance setting :

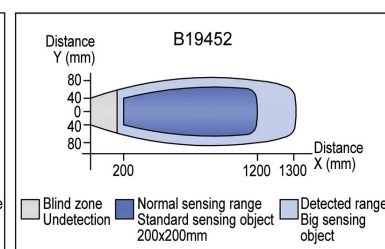
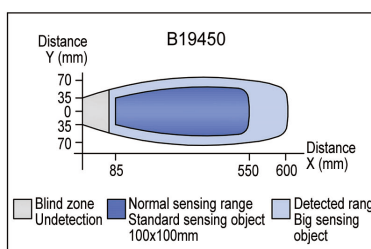
After B19450 has been set, the output indicator appears yellow when the sensing object through the sensing range.



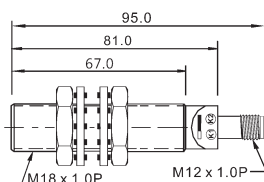
The distance between X1 and X2 has need to longer than 50mm.

- X1: Place the sensing object at the nearest point within the sensing range.
X2: Place the sensing object at the farthest point within the sensing range.

Detection area :

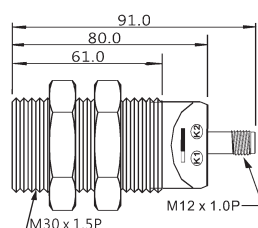


B19450
Ultrasonic sensor M18x1.0
with M12 cable 2M



Code	A	B	C	D
Switching output	0~10V	4~20mA	NPN NO/NC	PNP NO/NC
Sensing distance	8.5~55cm			
Standard sensing object	Plate glass 100x100mm			
Operating voltage	DC 18~30V		DC 12~24V	
Load current	-		<200mA	
Response time	<200ms			
Ultrasonic frequency	200kHz			
Hysteresis	20mm			
Operation indicator	Yellow LED			
Ambient temperature	-20℃~70℃			
Humidity	RH 35~85%			
Connecting method	M12 plug connector			

B19452
Ultrasonic sensor M30x1.5
with M12 cable 2M



Code	A	B	C	D
Switching output	0~10V	4~20mA	NPN NO/NC	PNP NO/NC
Sensing distance	20~120cm			
Standard sensing object	Plate glass 200x200mm			
Operating voltage	DC 18~30V		DC 12~24V	
Load current	-		<200mA	
Response time	<200ms			
Ultrasonic frequency	112kHz			
Hysteresis	20mm			
Operation indicator	Yellow LED			
Ambient temperature	-20℃~70℃			
Humidity	RH 35~85%			
Connecting method	M12 plug connector			

B19450MA
Mounting bracket for M18 sensor
(for B19450)



B19450MB
Mounting bracket for M18 sensor
(for B19450)



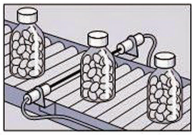
B19452MA
Mounting bracket for M30 sensor
(for B19452)



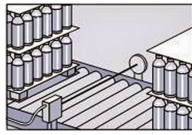
Introduction (for B19470 ~ B19501) :

In comparison to other types of sensors, photoelectric sensors can detect objects from relatively far away. They also provide accurate results, fast. Unlike some other types of sensors, they do not require contact with another object. This improves reliability and can pretty much detect almost any kind of item, regardless of its materials.

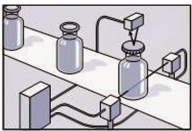
Applications:



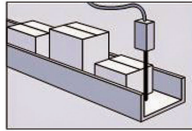
Verifying objects in clear bottles



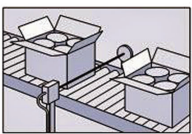
Flow of pallets carrying bottles



Detecting caps on bottles



Detecting items of varying height



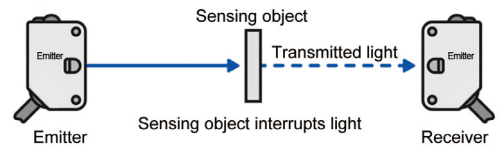
Counting cartons



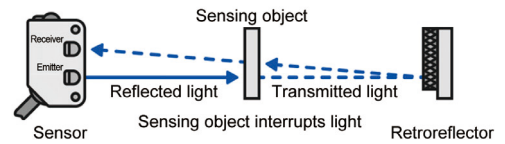
Car wash

Main types of photoelectric sensors:

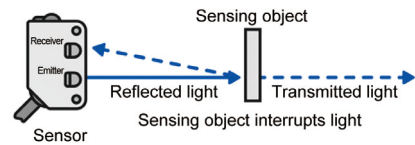
Through-beam sensors



Retro-reflective sensors

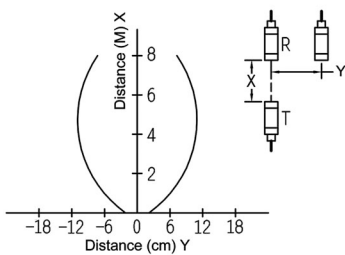


Diffuse-reflective sensors

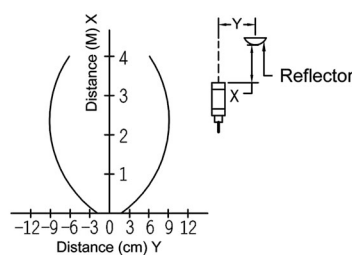


Parallel sensing range:

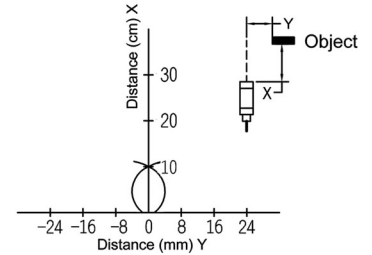
B19470 Sensing range



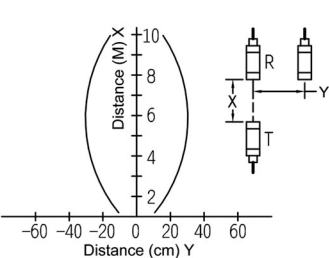
B19471 Sensing range



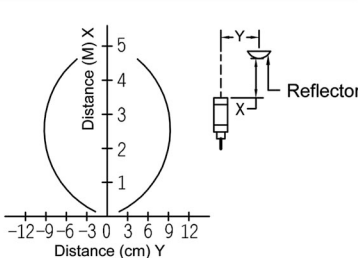
B19472 Sensing range



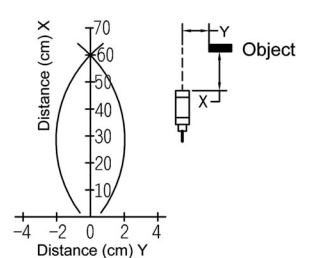
B19480 Sensing range



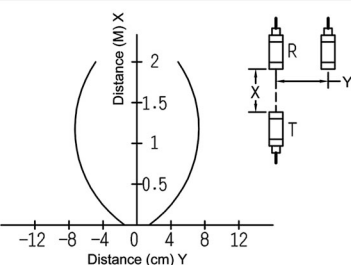
B19481 Sensing range



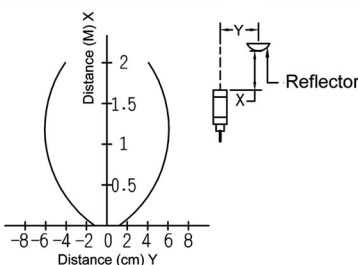
B19482 Sensing range



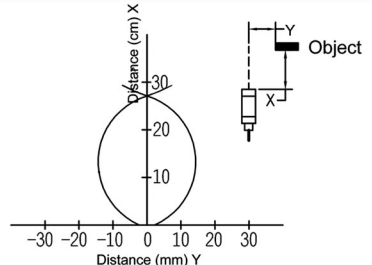
B19490 Sensing range



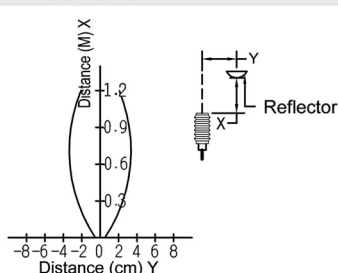
B19491 Sensing range



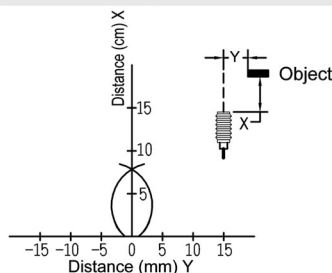
B19492 Sensing range



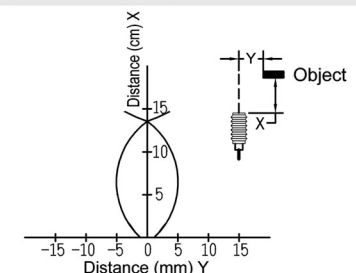
B19500 Sensing range



B19501A Sensing range

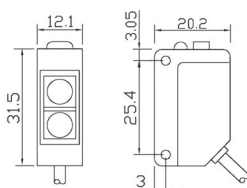
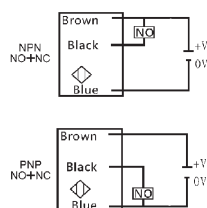


B19501B Sensing range



- B19470** x Photoelectric sensor through-beam (2M)
B19471 x Photoelectric sensor retro-reflective W/reflector (2M)
B19472 x Photoelectric sensor diffuse-reflective (2M)

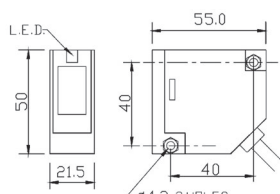
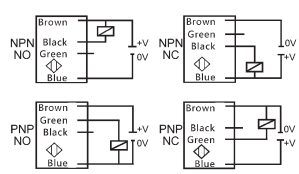
Output A: NPN NO/NC
 Item No. B: PNP NO/NC



Item No.	B19470	B19471	B19472
Sensing distance	8M	3M	10cm
Standard sensing object	Opaque 15mm	Opaque 75mm	White paper 80x80mm
Operating voltage	DC 12~24V		
Response time	< 5ms		
Load current	< 100mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient temperature	-20℃~55℃		
Circuit protection	Reversed polarity protection Short circuit protection		
Ambient illumination	Lamplight < 3000 Lux Sunlight < 10000 Lux		
With light on and dark on two functions			

- B19480** x Photoelectric sensor through-beam (2M)
B19481 x Photoelectric sensor retro-reflective W/reflector (2M)
B19482 x Photoelectric sensor diffuse-reflective (2M)

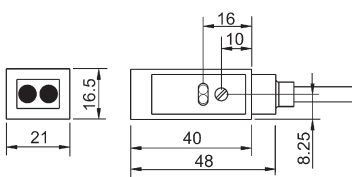
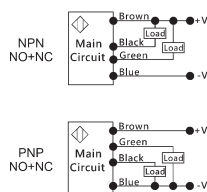
Output A: NPN NO B: NPN NC
 Item No. C: PNP NO D: PNP NC



Item No.	B19480	B19481	B19482
Sensing distance	10M	4M	70cm
Standard sensing object	Opaque 20mm	Opaque 70mm	White paper 30x30cm
Operating voltage	DC 12~24V		
Response time	< 10ms		
Load current	< 200mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient temperature	-20°C~55°C		
Circuit protection	Reversed polarity protection Short circuit protection		
Ambient illumination	Lamplight < 3500 Lux Sunlight < 11000 Lux		
Exclusive innovation of 4 in 1 switch output functions			

- B19490** x Photoelectric sensor through-beam (2M)
B19491 x Photoelectric sensor retro-reflective W/reflector (2M)
B19492 x Photoelectric sensor diffuse-reflective (2M)

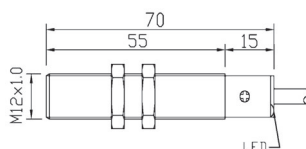
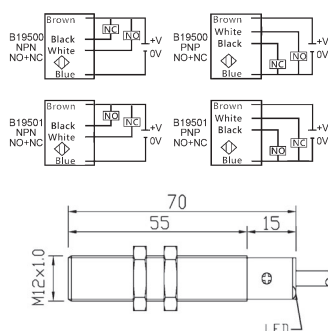
Output A: NPN NO/NC
 Item No. B: PNP NO/NC



Item No.	B19490	B19491	B19492
Sensing distance	2M	2M	30cm
Standard sensing object	Opaque 10mm	Opaque 50mm	White paper 12x12cm
Operating voltage	DC 12~24V		
Response time	< 5ms		
Load current	< 200mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient temperature	-20℃~55℃		
Circuit protection	Reversed polarity protection		
Ambient illumination	Lamplight < 3000 Lux Sunlight < 10000 Lux		
With light on and dark on two functions			

- B19500** x Photoelectric sensor retro-reflective W/reflector (2M)
B19501 x Photoelectric sensor diffuse-reflective (2M)

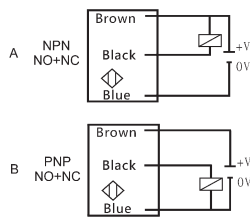
Output A: NPN NO/NC
 Item No. B: PNP NO/NC



Item No.	B19500	B19501A	B19501B
Sensing distance	1.2M	8M	15cm
Standard sensing object	Opaque 30mm	White paper 80x80mm	
Operating voltage	DC 12~24V		
Response time	< 5ms		
Load current	< 100mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient temperature	-20℃~55℃		
Circuit protection	Short circuit protection		
Ambient illumination	Lamplight < 3000 Lux Sunlight < 10000 Lux		
With light on and dark on two functions			

B19530 x Digital fiber-optic amplifier (2M)

Output
Item No.



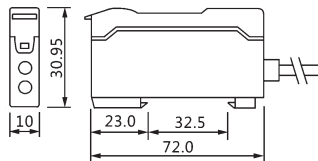
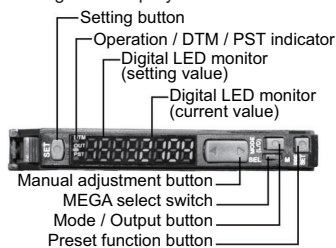
Features :

- Highly visible dual LED monitor, automatic and manual of sensitivity adjustment, easy setting for wide range application.
- Short response time, equipped with automatic maintenance (DATUM) and long distance detect functions.
- Reversed polarity & short circuit protection.
- Protective grade : IEC IP65

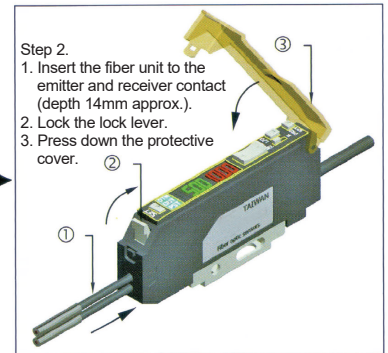
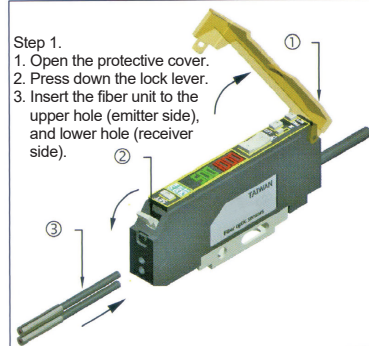
Operating voltage	DC 12~24V
Response time	High speed mode $\leq 0.1\text{ms}$ Fine mode $\leq 0.5\text{ms}$ Super mode $\leq 1\text{ms}$ Mega mode $\leq 16\text{ms}$
Timer function	On-delay / Off-delay / One shot-delay (0.1~9999ms) Timer off
Load current	< 100mA
Operation indicator	Red LED
Light source	Red LED
Ambient temperature	-20°C~55°C



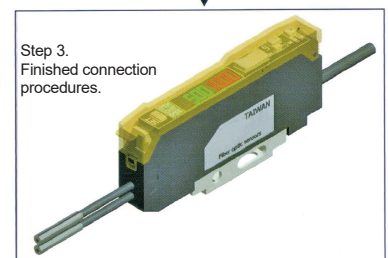
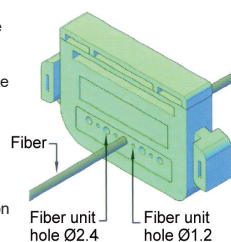
Setting and Display Overview :



Fiber connection procedures:

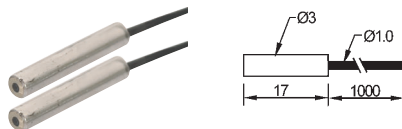


- Use fiber cutter:
1. Insert the fiber into the hole you need and cut it.
 2. Press down the fiber cutter completely in a single stroke to cut the fiber.
 3. Do not reuse the hole that has already cut to avoid the uneven cutting surface of the optical fiber due to the dullness of the knife edge will affect the detection distance.



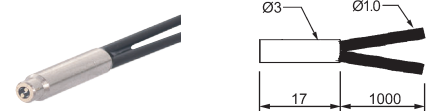
B19540

Fiber optic sensor cable through-beam (1M)
sensing distance: 25~80mm



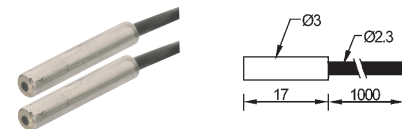
B19550

Fiber optic sensor cable diffuse-reflective (1M)
sensing distance: 8~35mm



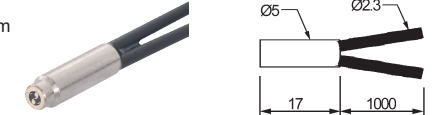
B19541

Fiber optic sensor cable through-beam (1M)
sensing distance: 65~400mm



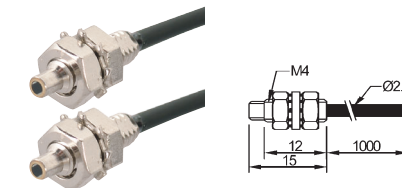
B19551

Fiber optic sensor cable diffuse-reflective (1M)
sensing distance: 35~100mm



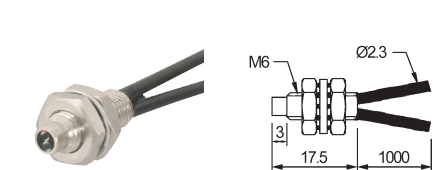
B19544

Fiber optic sensor cable through-beam (1M)
sensing distance: 65~400mm



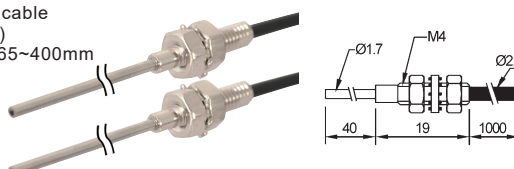
B19554

Fiber optic sensor cable diffuse-reflective (1M)
sensing distance: 30~85mm



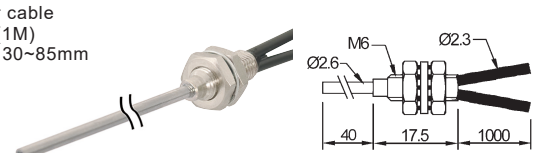
B19547

Fiber optic sensor cable through-beam (1M)
sensing distance: 65~400mm



B19557

Fiber optic sensor cable diffuse-reflective (1M)
sensing distance: 30~85mm



LTCC chip fuse (3.1 x 1.6mm)

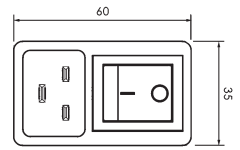
K239320 1A ~ 8A (63V)

Slow blow LTCC chip fuse

K239321 1A ~ 8A (63V)

Application:

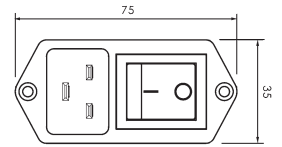
• LCD Displays • Notebook Computers

**K241580**Panel mount AC socket
terminal 6.3mm

Power fuse (10Ø x 38mm)

K239325 15A ~ 30A (1000V)

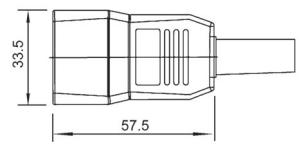
Application:

• Inverters • Combiner boxes
• Battery charge controllers**K241582**Panel mount AC socket
terminal 6.3mm

Power fuse (10Ø x 38mm)

K239326 15A ~ 30A (1000V)

Application:

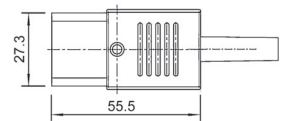
• Inverters • Combiner boxes
• Battery charge controllers**K24181**AC connector
250V 16A/20A

Power fuse (10Ø x 38mm)

K239327 10A ~ 50A (500V)

Application:

• EV power systems

**K24182**AC connector
250V 16A/20A

Power fuse (10Ø x 38mm)

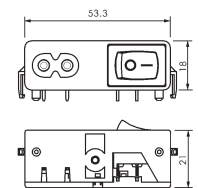
K239328 10A ~ 50A (500V)
Bolt down type

Application:

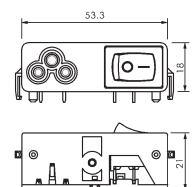
• EV power systems

**K2530**

AC socket with switch

**K2535**

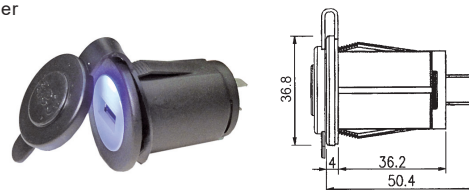
AC socket with switch



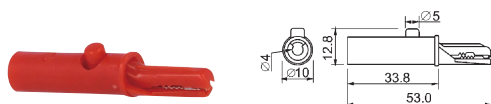
K2667
Alligator clip W/Ø2.0 socket



K32201
USB/A type charger
W/LED
In:12V/24V
Out:5V 2.4A



K2668
Alligator clip W/Ø4.0 socket



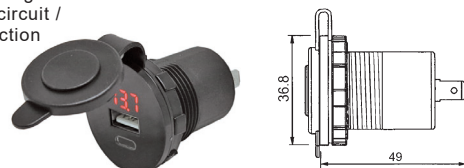
K32202
Dual USB/A type charger
W/reverse protection
W/ LED
In:12V/24V
Out:5V 2.1A



K32086
Auto plug to USB/A & USB/C adapter W/LED
In:12V/24V
Out:5V 2.1A



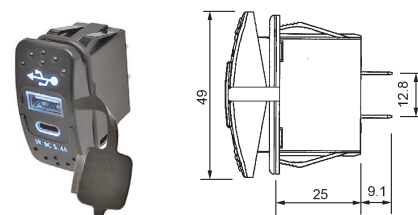
K32203
USB/A & C type charger W/fuse
W/reverse / short circuit /
over voltage protection
W/LED / voltage &
current meter
In:12V/24V
Out:5V 2.1A



K32088
Auto plug to 2 x USB/A adapter W/fuse
W/short circuit / over voltage / reverse protection W/LED
In:12V/24V
Out:5V 2.4A



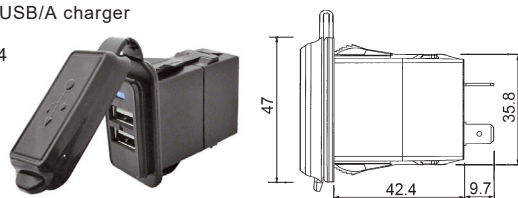
K32204
USB/A & C type charger
W/reverse / short circuit /
over voltage protection
W/LED
In:12V/24V
Out:
Type A-5V 2.4A
Type C-5V 3A



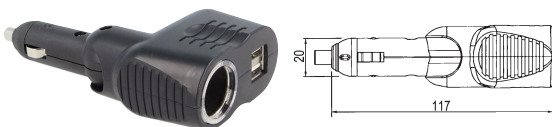
K320885
Auto plug to USB/A & C adapter W/short circuit /
over current / over temperature protection
In:12V/24V
Out:
Type A (QC3.0)-
5V3A/9V2A/12V1.5A
Type C (PD3.0)-
5V3A/9V3A/12V3A/
15V2A/20V1.8A



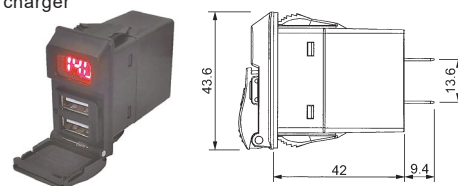
K32205
Waterproof dual USB/A charger
W/LED
can reach to IP64
In:12V/24V
Out:5V 2.4A



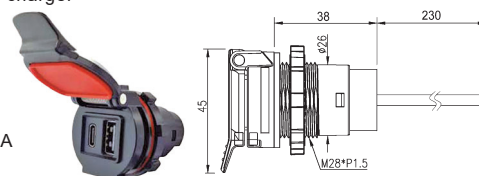
K3209
Auto plug to auto jack & 2 x USB/A adapter
W/light ring / fuse / short circuit / over voltage
protection
In:12V/24V
Out:5V 2.1A



K32206
Waterproof dual USB/A charger
W/reverse protection
W/LED voltage meter
can reach to IP64
In:12V/24V
Out:5V 2.4A

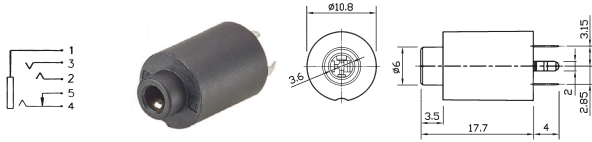


K32207
Waterproof USB/A & C charger
can reach to IPX5
In:12V
Out:
QC3.0 Type A-
5V3A/9V2A/12V1.5A
PD3.0 Type C-
5V3A/9V2A/12V1.5A

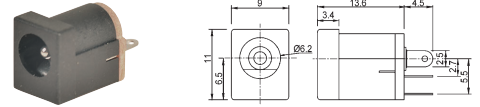


K36380

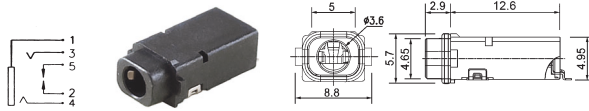
Waterproof 3.5mm stereo phone jack
can reach to IPX7

**K375Y01 /02**

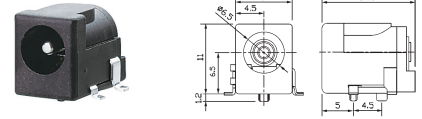
DC power jack
DC 16V 5A
01: central pin 2mm
02: central pin 2.5mm

**K36440**

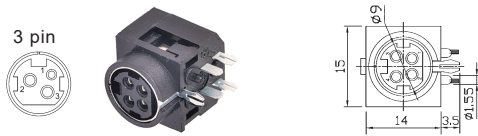
Waterproof 3.5mm stereo phone jack (SMD)
can reach to IP67

**K375Y03 /04**

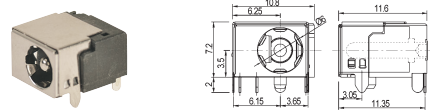
DC power jack
DC 16V 5A
03: central pin 2mm
04: central pin 2.5mm

**K37154A /B**

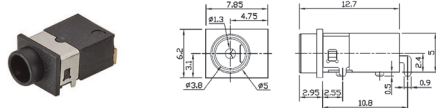
3P ~ 4P DC power socket
DC 20V 7.5A
A: 3 pin
B: 4 pin

**K375Y05 /06**

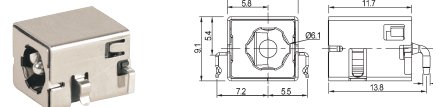
DC power jack
DC 16V 5A
05: central pin 2mm
06: central pin 2.5mm

**K37216**

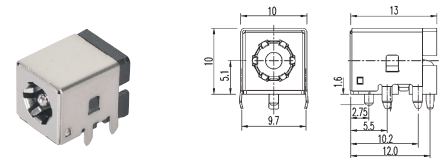
Waterproof 1.3mm DC power jack
can reach to IPX7
DC 20V 5A

**K375Y07 /08**

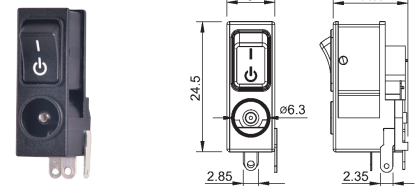
DC power jack
DC 20V 7A
07: central pin 2mm
08: central pin 2.5mm

**K375Y09 /10 (K375Y1 /Y2)**

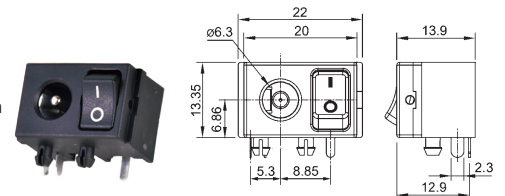
DC power jack
DC 20V 8A
09: central pin 2mm
10: central pin 2.5mm

**K375Z05 /06**

DC power jack
W/rocker switch
DC 15V 5A
05: central pin 2mm
06: central pin 2.5mm

**K375Z07 /08**

DC power jack
W/rocker switch
DC 15V 5A
07: central pin 2mm
08: central pin 2.5mm

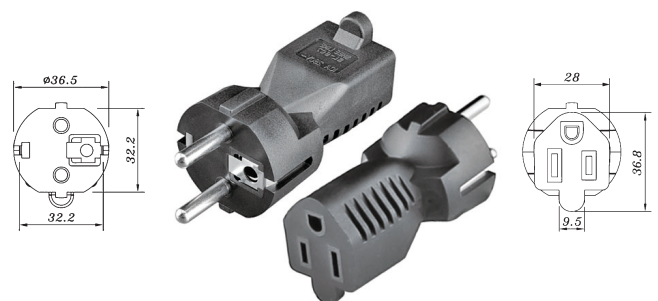


K37703

Convert AS/NZS 3112 plug to
NEMA5-15R jack
Rated : 250V 10A


K37706

Convert CEE7-7 Europlug to
NEMA5-15R jack
Rated : 250V 10A

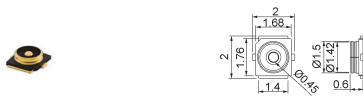

K37748

Convert IEC-C14 plug to
NEMA5-15R jack
Rated : 125V 10A



M52450

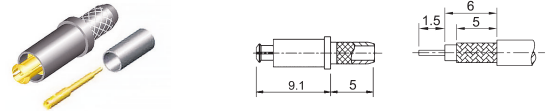
IPEX MHF female 4pad gold-pin (SMD)



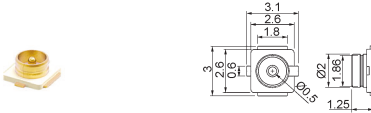
NEW

M52480

MC card male crimp type gold-pin (RG174U/178U)

**M52452**

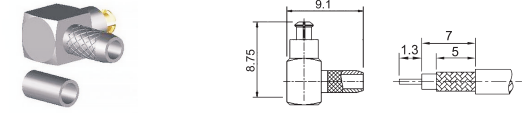
IPEX MHF female 3pad gold-pin (SMD)



NEW

M52482

Right angle MC card male crimp type gold-pin (RG174U/178U)

**M52454**

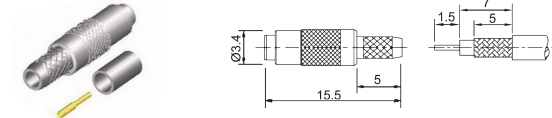
IPEX MHF female to SMA male (gold-plated)



NEW

M52484

MC card female crimp type gold-pin (RG174U/178U)

**M52456**

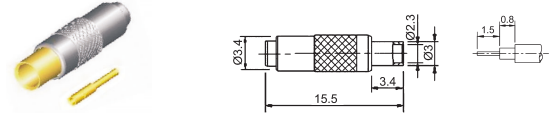
IPEX MHF female to SMA female (gold-plated)



NEW

M52486

MC card female solder type for semi-rigid cable gold-pin (RG405U)

**M52458**

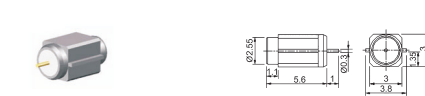
IPEX MHF male to SMA female (gold-plated)



NEW

M52488

MC card female edge mount gold-pin

**M52460**

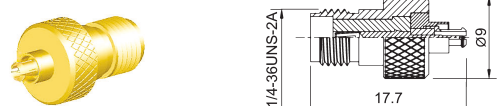
IPEX MHF female to SMB female bulkhead (gold-plated)



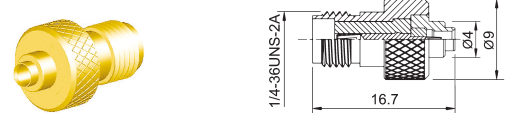
NEW

M52490

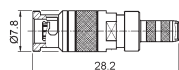
MC card male to SMA female (gold-plated)

**M52492**

MC card female to SMA female (gold-plated)

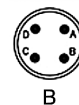


M558350S
12G-SDI BNC male crimp type gold-pin
(1855A)



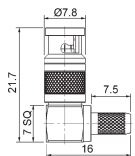
NEW

M59400 M59401



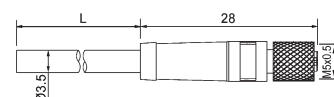
B

M558352S
Right angle 12G-SDI BNC male crimp type gold-pin
(1855A)

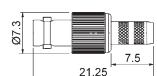


NEW

M59400
Waterproof female M5 connector
Pin : (B)4P 360°
Length : (A)1M (C)3M (E)5M
1A60V
can reach to IP65

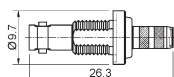


M558355S
12G-SDI BNC female crimp type gold-pin
(1855A)



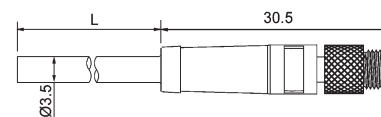
NEW

M558356S
12G-SDI BNC female bulkhead crimp type gold-pin
(1855A)



NEW

M59401
Waterproof male M5 connector
Pin : (B)4P 360°
Length : (A)1M (C)3M (E)5M
1A60V
can reach to IP65

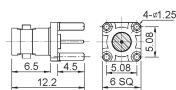


M558360
Protective cap for 12G-SDI BNC female



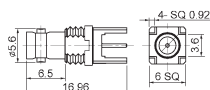
NEW

M558362
12G-SDI BNC female PCB mount
(gold plated)



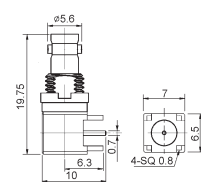
NEW

M558363
12G-SDI BNC female bulkhead PCB mount
(gold plated)



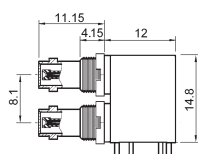
NEW

M558364
Right angle 12G-SDI BNC female bulkhead
PCB mount (gold plated)



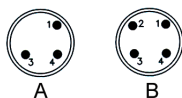
NEW

M558365
Right angle dual 12G-SDI BNC female
PCB mount gold-pin

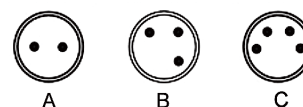


NEW

M59405 M59406 M59407 M59408

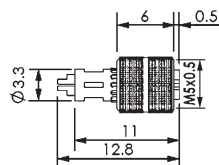


M594280 M594281 M594285 M594286



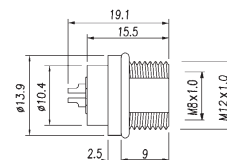
M59405

Waterproof female M5 connector molded type
Pin : (A)3P (B)4P 360°
1A60V
can reach to IP67



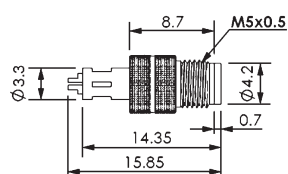
M594280

M594280
Waterproof female M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



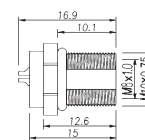
M59406

Waterproof male M5 connector molded type
Pin : (A)3P (B)4P 360°
1A60V
can reach to IP67



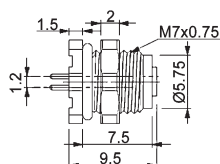
M594281

Waterproof female M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



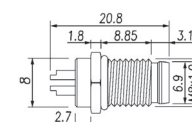
M59407

Waterproof female M5 connector
Pin : (A)3P (B)4P 360°
1A60V
can reach to IP67



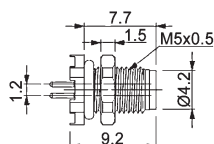
M594285

M594285
Waterproof male M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



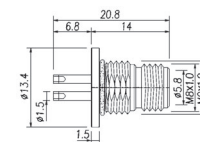
M59408

Waterproof male M5 connector
Pin : (A)3P (B)4P 360°
1A60V
can reach to IP67



M594286

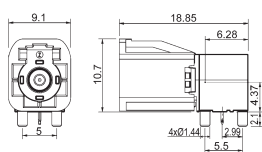
M394286
Waterproof male M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



N596000

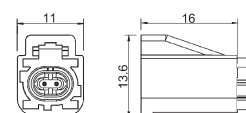
Right angle mini FAKRA plug type A

Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue


N596030

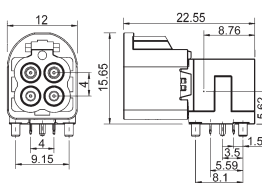
H-CMTD plug 2 signal pins

Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue


N596002

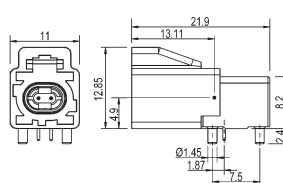
Right angle mini FAKRA plug type A

Color :
black white
green blue
violet brown
waterblue


N596032

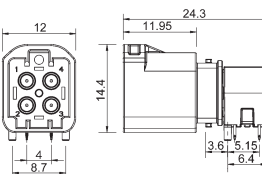
Right angle H-CMTD plug 2 signal pins

Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue


N596004

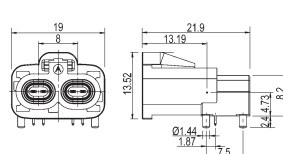
Right angle mini FAKRA plug type B

Color :
black white
green blue
violet brown
waterblue


N596034

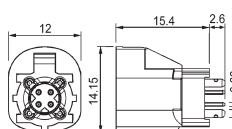
Right angle H-CMTD plug 2x2 signal pins

Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue


N596006

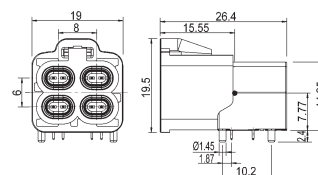
FAKRA HSD plug

Color :
black white
green blue
brown
bordeaux
waterblue


N596036

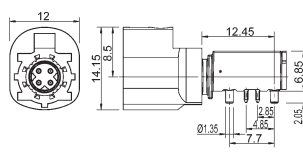
Right angle H-CMTD plug 4x2 signal pins

Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue


N596008

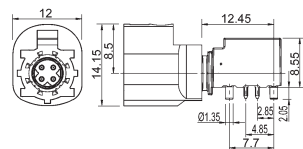
Right angle FAKRA HSD plug

Color :
black white
green blue
brown
bordeaux
waterblue


N596010

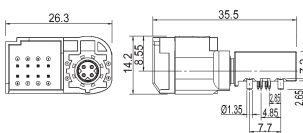
Right angle FAKRA HSD plug

Color :
black white
green blue
brown
bordeaux
waterblue


N596012

Right angle FAKRA HSD plug W/8P MQS housing

Color :
black violet
natural
light-blue
waterblue



N60002

2mm Sealed JWPF series wire to wire connector
plug 2P

**N60002R**

2mm Sealed JWPF series wire to wire connector
receptacle 2P

**N60003**

2mm Sealed JWPF series wire to wire connector plug 3P

**N60003R**

2mm Sealed JWPF series wire to wire connector
receptacle 3P

**N60004**

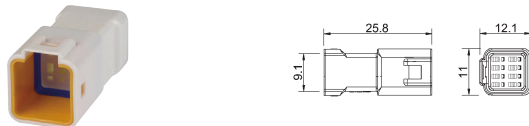
2mm Sealed JWPF series wire to wire connector
plug 4P

**N60004R**

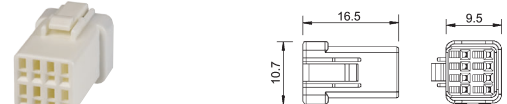
2mm Sealed JWPF series wire to wire connector
receptacle 4P

**N60008**

2mm Sealed JWPF series wire to wire connector
plug 8P

**N60008R**

2mm Sealed JWPF series wire to wire connector
receptacle 8P

**N600PT**

JWPF series terminal 26-22AWG
(8K/reel)

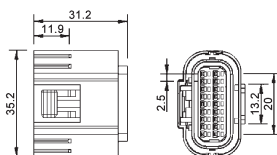
**N600RT**

JWPF series terminal 26-22AWG
(8K/reel)

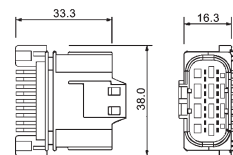


N60118R

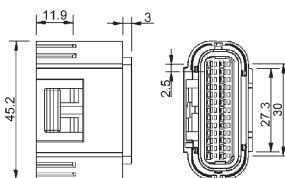
2.5mm Sealed MX23A series connector receptacle 18P


N60118

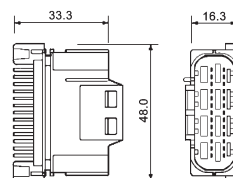
2.5mm Sealed MX23A series connector header 18P (right angle)


N60126R

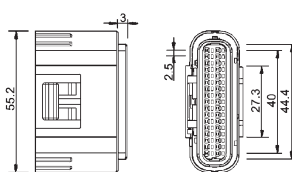
2.5mm Sealed MX23A series connector receptacle 26P


N60126

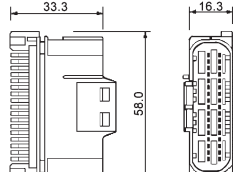
2.5mm Sealed MX23A series connector header 26P (right angle)


N60134R

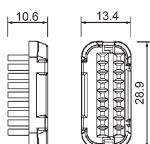
2.5mm Sealed MX23A series connector receptacle 34P


N60134

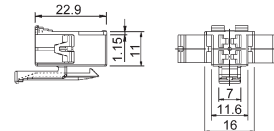
2.5mm Sealed MX23A series connector header 34P (right angle)


N60118RC

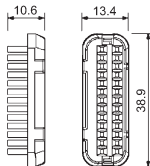
MX23A series front cap 18P


N60204R

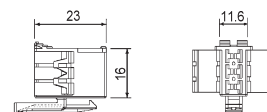
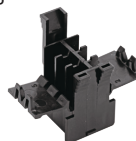
5mm Junior power timer series connector receptacle 4P


N60126RC

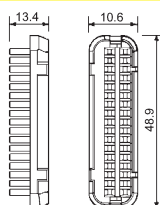
MX23A series front cap 26P


N60206R

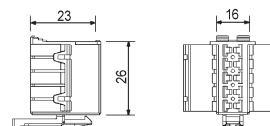
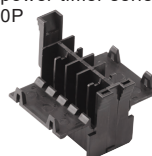
5mm Junior power timer series connector receptacle 6P


N60134RC

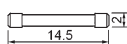
MX23A series front cap 34P


N60210R

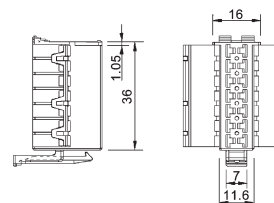
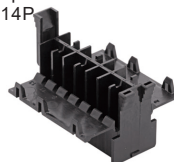
5mm Junior power timer series connector receptacle 10P


N601RP

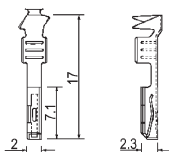
MX23A series dummy pin


N60214R

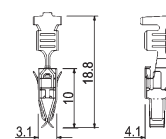
5mm Junior power timer series connector receptacle 14P


N601RT

MX23A series terminal 22-20AWG (6K/reel)

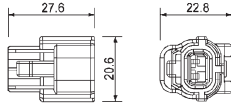

N602RT

Junior power timer series terminal 20-18AWG (2500/reel)

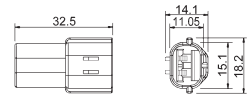


N60302

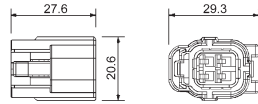
4.8mm Econoseal J-Mark II series
connector plug 2P

**N60302R**

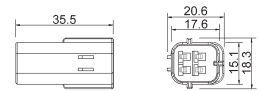
4.8mm Econoseal J-Mark II series
connector receptacle 2P

**N60304**

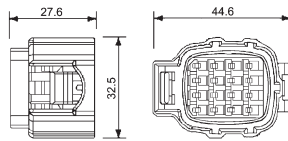
4.8mm Econoseal J-Mark II series
connector plug 4P

**N60304R**

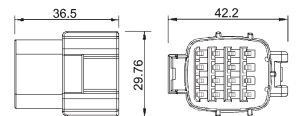
4.8mm Econoseal J-Mark II series
connector receptacle 4P

**N60316**

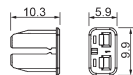
4.8mm Econoseal J-Mark II series
connector plug 16P

**N60316R**

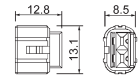
4.8mm Econoseal J-Mark II series
connector receptacle 16P

**N60302K**

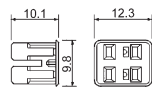
Econoseal J-Mark II series lock plate 2P

**N60302RK**

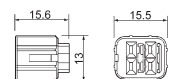
Econoseal J-Mark II series lock plate 2P

**N60304K**

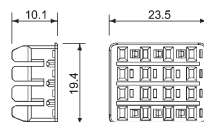
Econoseal J-Mark II series lock plate 4P

**N60304RK**

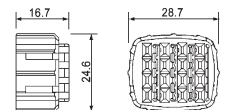
Econoseal J-Mark II series lock plate 4P

**N60316K**

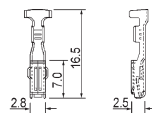
Econoseal J-Mark II series lock plate 16P

**N60316RK**

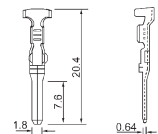
Econoseal J-Mark II series lock plate 16P

**N603PT**

Econoseal J-Mark II series terminal
22-20AWG (5K/reel)

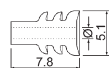
**N603RT**

Econoseal J-Mark II series terminal
22-20AWG (5K/reel)

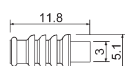


N60313WB Econoseal J-Mark II series Ø1.3 wire seal black

N60317WG Econoseal J-Mark II series Ø1.7 wire seal gray

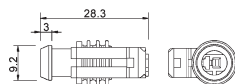
**N60330WB**

Econoseal J-Mark II series Ø3.0 wire seal black



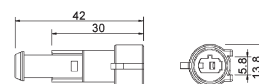
N60401

6mm Superseal 1.5 series wire to wire connector plug 1P



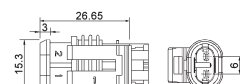
N60401R

6mm Superseal 1.5 series wire to wire connector receptacle 1P



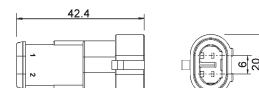
N60402

6mm Superseal 1.5 series wire to wire connector plug 2P



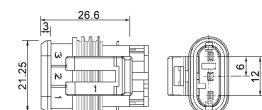
N60402R

6mm Superseal 1.5 series wire to wire connector receptacle 2P



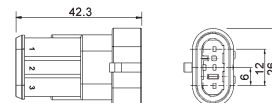
N60403

6mm Superseal 1.5 series wire to wire connector plug 3P



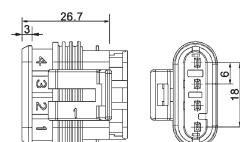
N60403R

6mm Superseal 1.5 series wire to wire connector receptacle 3P



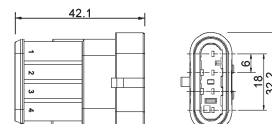
N60404

6mm Superseal 1.5 series wire to wire connector plug 4P



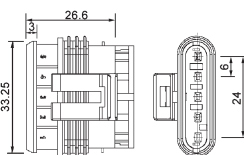
N60404R

6mm Superseal 1.5 series wire to wire connector receptacle 4P



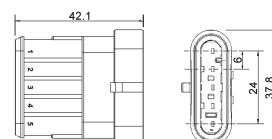
N60405

6mm Superseal 1.5 series wire to wire connector plug 5P



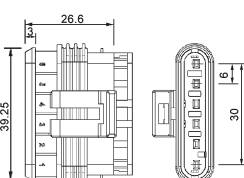
N60405R

6mm Superseal 1.5 series wire to wire connector receptacle 5P



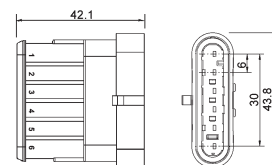
N60406

6mm Superseal 1.5 series wire to wire connector plug 6P



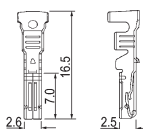
N60406R

6mm Superseal 1.5 series wire to wire connector receptacle 6P



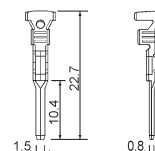
N604PTA Superseal 1.5 series terminal 22-20AWG

N604PTB Superseal 1.5 series terminal 18-16AWG (3500/reel)



N604RTA Superseal 1.5 series terminal 22-20AWG

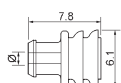
N604RTB Superseal 1.5 series terminal 18-16AWG (3500/reel)



N60410WG Superseal 1.5 series Ø1.0 wire seal green

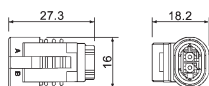
N60414WY Superseal 1.5 series Ø1.4 wire seal yellow

N60418WR Superseal 1.5 series Ø1.8 wire seal red

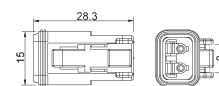


N60502R

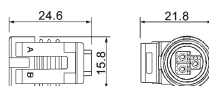
6mm Metri-Pack 150 series connector
receptacle 2P

**N60602**

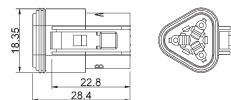
Sealed DT series wire to wire connector
plug 2P

**N60503AR**

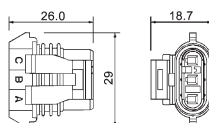
6mm Metri-Pack 150 series connector
receptacle 3P

**N60603**

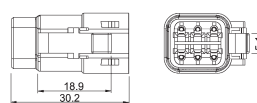
Sealed DT series wire to wire connector
plug 3P

**N60503BR**

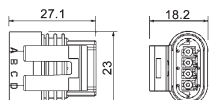
6mm Metri-Pack 150 series connector
receptacle 3P

**N60606**

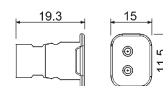
Sealed DT series wire to wire connector
plug 6P

**N60504R**

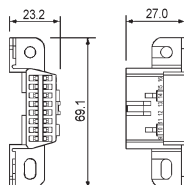
6mm Metri-Pack 150 series connector
receptacle 4P

**N60602K**

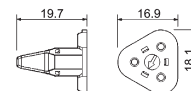
DT series wedgelock 2P

**N60516R**

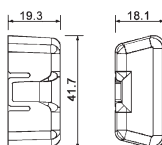
4mm Metri-Pack 150 series connector
receptacle 16P

**N60603K**

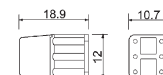
DT series wedgelock 3P

**N60516RC**

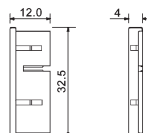
Metri-Pack 150 series connector cover
for N60516R

**N60606K**

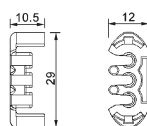
DT series wedgelock 6P

**N60516RK**

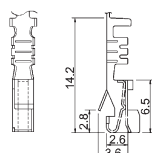
Metri-Pack 150 series TPA lock
for N60516R

**N60503BK**

Metri-Pack 150 series secondary lock
for N60503BR

**N605RT**

Metri-Pack terminal 18AWG
(3400/reel)



N60701

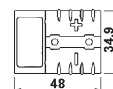
Battery modular connector 1P
Small type

Color :
red yellow
blue green
black

**N60711**

Battery modular connector 2P
Small type

Color :
red yellow
blue green
black gray

**N60702**

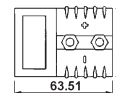
Battery modular connector 1P
Medium type

Color :
red yellow
blue green
black

**N60712**

Battery modular connector 2P
Medium-small type

Color :
red yellow
blue gray

**N60703**

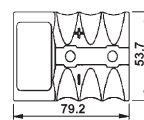
Battery modular connector 1P
Medium-large type

Color :
red yellow
blue green
black

**N60713**

Battery modular connector 2P
Medium type

Color :
red yellow
blue gray

**N60704**

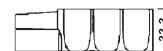
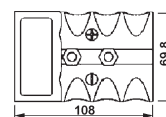
Battery modular connector 1P
Large type

Color :
red blue
green black

**N60714**

Battery modular connector 2P
Large type

Color :
red yellow
blue green
gray



N60701T Terminal for N60701 15A (20-16AWG)

N60702T Terminal for N60702 50A (12-10AWG)

N60703T Terminal for N60703 80A (6AWG)

N60704T Terminal for N60704 125A (4AWG)



N60711T Terminal for N60711 45A (8AWG)

N60712T Terminal for N60712 100A (4AWG)

N60713T Terminal for N60713 175A (1AWG)

N60714T Terminal for N60714 250A (2AWG)



N60901 x (from **N60901** to **N60903S**)

Code
Item No.

**Features:**

- Ergonomic and streamlined designs allow for user-friendly interaction
- High protection level to resist severe environment
- Products passed 5000N driveover test

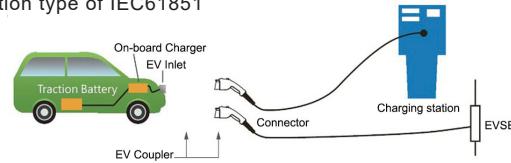
Application:

- BEV, PHEV, charging pile, cord set and domestic wall-mounted charger, etc.

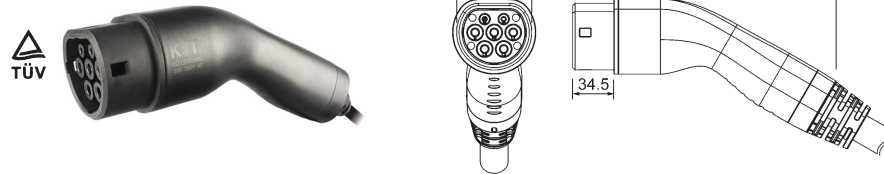
General charging mode of IEC61851

Type	Charging mode	Power supply	Breaker	Charging power	Device	Charging time (24KWh Battery)
Normal	Mode 1	230VAC, 1Ø	16A	3.3KW	Home outlet	8h
	Mode 2	230VAC, 1Ø	32A	6.6KW	ICCB	4h
	Mode 3	230VAC, 3Ø	32A	12KW	AC EVSE	2h
Fast	Mode 4	500VDC	125A	50KW	DC EVSE	30min

General connection type of IEC61851

**N60901**

AC charging connector for electric vehicle
IEC62196-2 type 1 & SAE J1772 standard
W/protective cap
Length: 5M

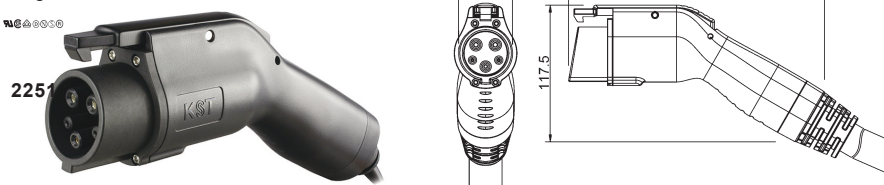


Specification:

Code	A	B
Rated current	20A	32A
Rated voltage	250VAC / 480VAC	
Lifespan	≥10000 times	
Flammability rating	UL 94V-0	
Protection level	With cap IP54 (body IP67)	
Operating temperature	-30°C~+50°C	
Cable specification	3x2.5mm²+ 1x0.75mm²	3x6.0mm²+ 1x0.75mm²

N60903

AC charging connector for electric vehicle
SAE J1772 standard
W/protective cap
Length: 5M

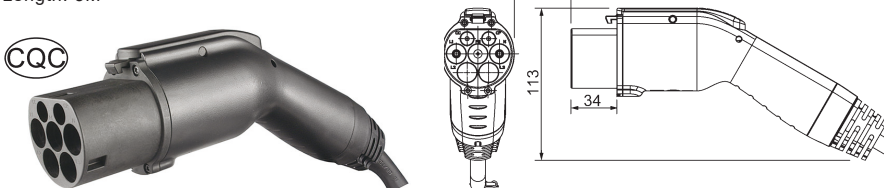


Specification:

Code	A	B
Rated current	32A	40A
Rated voltage	240VAC	
Lifespan	≥10000 times	
Flammability rating	UL 94V-0	
Protection level	NEMA 4 (body IP67)	
Operating temperature	-30°C~+50°C	
Cable specification	3x10AWG+ 1x18AWG	2x8AWG+ 1x10AWG+ 1x18AWG

N60905

AC charging connector for electric vehicle
GB / T20234 standard
W/protective cap
Length: 5M

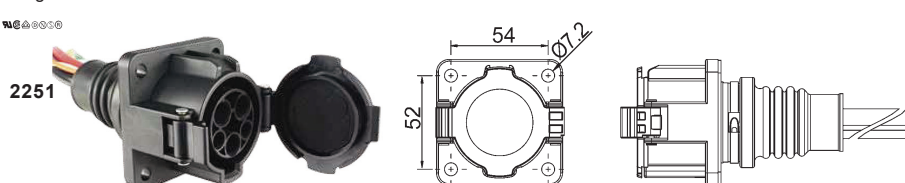


Specification:

Code	A	B
Rated current	16A	32A
Rated voltage	250VAC	
Force	≤100N	
Lifespan	≥10000 times	
Flammability rating	UL 94V-0	
Protection level	With cap IP54 (body IP67)	
Operating temperature	-30°C~+50°C	
Cable specification	3x2.5mm²+ 1x0.75mm²	3x6.0mm²+ 1x0.75mm²

N60903S

AC charging socket for electric vehicle
SAE J1772 standard
W/protective cap
Length: 1.5M



Specification:

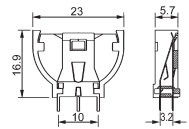
Code	A	B
Rated current	40A	80A
Rated voltage	240VAC	
Lifespan	≥10000 times	
Flammability rating	UL 94V-0	
Protection level	NEMA 4	
Operating temperature	-30°C~+50°C	
Cable specification	2x8AWG+ 1x10AWG+ 1x18AWG	2x5AWG+ 1x6AWG+ 2x18AWG

N6545
18650 battery holder x 1 for one cell
PCB mount



NEW

N656105
Coin cell holder
for CR2032

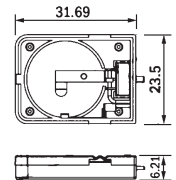


N6546
18650 battery holder x 2 for two cell
PCB mount



NEW

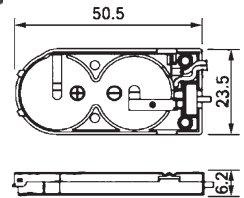
N656120
Coin cell holder
for CR2032
W/switch
Lead length:
150mm



N65554
9 Volt battery holder panel mount



N656122
Coin cell holder
for CR2032
W/switch
Lead length:
150mm



N6555632
Waterproof UM 3 x 2 for two "AA" cell W/switch
Standard lead length 150mm
can reach to IP65



N6555633
Waterproof UM 3 x 3 for three "AA" cell W/switch
Standard lead length 150mm
can reach to IP65



P6723 x (from **P6723** to **P6728**)

Temperature rate
Item No.

Temperature :

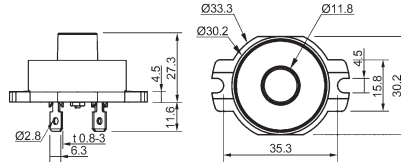
Code	A	B	C	D	E	F	G	H	J	K	L
°C	75	80	85	90	95	100	105	110	120	130	140

Code	M	N	P	Q	R	S	T		X	X1	X2
°C	150	160	170	180	190	200	205		50	60	70

P6711 x x 1" Single-phase motor protector W/ear

Current rating
Code

Rating: 1 - 44Amp
UL : 1/4 - 3HP
110V - 120V
220V - 240V



Operation temperature:

Code	A	B	C	D	E	F
Open $\pm 5^{\circ}\text{C}$	90	105	105	120	135	150
Close $\pm 12^{\circ}\text{C}$	54	63	74	74	96	96

Specifications:

Protect motor: 1/6 to 5HP

Trip time: 10 $\pm$ 5 sec.Input power: 110-120VAC
220-240VAC

Reset: Manual reset

Contacts type: NC

Applications:

- Industrial motor
- Varios types of pumps
- Compressor
- Air conditioning
- Agricultural equipment
- Home appliances

P6723

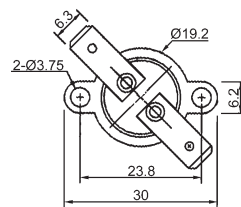
Ceramic thermostat (NC)

15A 125V

10A 250V



50°C -205°C at no load



Reset type: Auto reset

Tolerance: $\pm 3^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$

Reset differential: 10°C~20°C

Dielectric strength: 1500VAC/1 minute

Life cycles: 100,000 cycles under rated load

Applications:

- Espresso machines
- Vending machines
- Toaster, Microwave
- Photo copier, UPS
- Roomheater
- Home & heating appliances

P6725

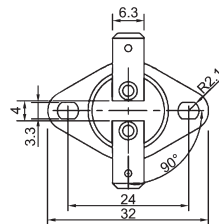
Thermostat (NC)

15A 125V

10A 250V



50°C -185°C at no load



Reset type: Auto reset

Tolerance: $\pm 3^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$

Reset differential: 10°C~20°C

Dielectric strength: 1500VAC/1 minute

Life cycles: 100,000 cycles under rated load

Applications:

- Espresso machines
- Vending machines
- Toaster, Microwave
- Photo copier, UPS
- Roomheater
- Home & heating appliances

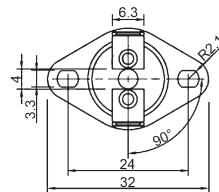
P6728

Thermostat (NC)

15A 125V



50°C -185°C at no load



Reset type: Manual reset

Tolerance: $\pm 3^{\circ}\text{C}$, $\pm 5^{\circ}\text{C}$

Reset differential: Reset temp. can be specified

Dielectric strength: 1500VAC/1 minute

Life cycles: 6,000 cycles under rated load

Applications:

- Espresso machines
- Vending machines
- Toaster, Microwave
- Photo copier, UPS
- Roomheater
- Home & heating appliances

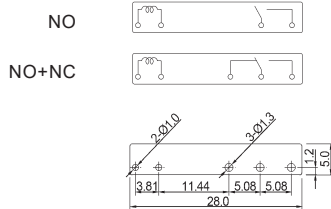
P67415 x Relay (NO) **P67416** x Relay (NO+NC)



Code
Item No.



28.0 x 5.0 x 15.0



Code	Coil voltage (V)	Coil resistance	Rated power (W)	Nominal current
A	DC 3V	53Ω	0.17W	56.6mA
B	DC 5V	147Ω	0.17W	34.0mA
C	DC 6V	211Ω	0.17W	28.3mA
D	DC 9V	476Ω	0.17W	18.8mA
E	DC12V	847Ω	0.17W	14.2mA
F	DC24V	3388Ω	0.17W	7.1mA

Contact arrangement	NO	NO+NC
Contact form	SPST	SPDT
Rated carrying current	8A	
Max. allowable current	8A	
Max. allowable voltage	AC400V DC30V	
Contact resistance	100mΩ Max.	
Insulation resistance	100MΩ Min. (DC500V)	

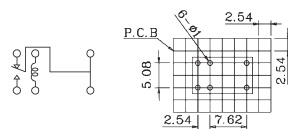
P67418 x Relay (NO+NC)

Code
Item No.



12.5 x 7.5 x 10.0

NO+NC



Code	Coil voltage (V)	Coil resistance	Rated power (W)	Nominal current
A	DC 3V	60Ω	0.15W	50.0mA
B	DC 5V	167Ω	0.15W	30.0mA
C	DC 6V	240Ω	0.15W	25.0mA
D	DC 9V	540Ω	0.15W	16.7mA
E	DC12V	960Ω	0.15W	12.5mA
F	DC24V	3840Ω	0.15W	6.3mA

Contact rating	1A
Rated carrying current	AC125V 0.5A DC 60V 0.3A DC 30V 1A
Max. allowable current	1A
Max. allowable voltage	AC125V DC60V
Max. current (continual)	1A
Contact resistance	100mΩ Max.
Insulation resistance	100MΩ Min. (DC500V)

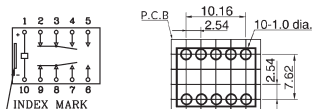
P67428 x Relay (2NO+2NC)

Code
Item No.



14.0 x 9.0 x 5.0

2NO+2NC

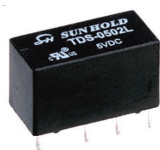


Code	Coil voltage (V)	Coil resistance	Rated power (W)	Nominal current
A	DC 3V	64.3Ω	0.14W	46.7mA
B	DC 5V	178.0Ω	0.14W	28.1mA
C	DC 6V	257.0Ω	0.14W	23.3mA
D	DC 9V	579.0Ω	0.14W	15.5mA
E	DC12V	1028.0Ω	0.14W	11.7mA
F	DC24V	2880.0Ω	0.20W	8.3mA

Contact arrangement	2NO+2NC
Rated carrying current	DC30V 1A AC125V 0.5A
Max. allowable current	1A
Max. switching voltage	AC250V DC220V
Max. switching current	1A
Contact resistance	50mΩ Max.
Insulation resistance	1000MΩ Min. (DC500V)

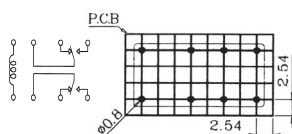
P67430 x Relay (2NO+2NC)

Code
Item No.



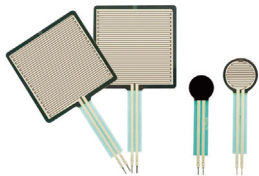
20.2 x 10.0 x 12.0

2NO+2NC

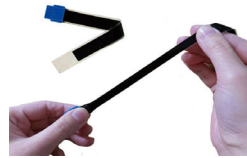


Code	Coil voltage (V)	Coil resistance	Rated power (W)	Nominal current
A	DC 5V	125Ω	0.2W	40mA
B	DC 6V	180Ω	0.2W	33mA
C	DC 9V	405Ω	0.2W	22mA
D	DC12V	720Ω	0.2W	17mA
E	DC24V	2800Ω	0.2W	8mA

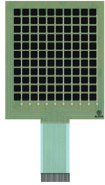
Contact rating	2A
Rated carrying current	DC24V 2A AC120V 1A
Max. allowable current	2A
Max. allowable voltage	AC150V DC28V
Max. current (continual)	2A
Contact resistance	100mΩ Max.
Insulation resistance	100MΩ Min. (DC500V)



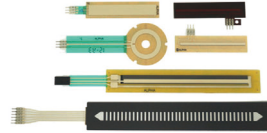
- Membrane force sensor**
- Ultra-thin and flexible, with better performance at high temperature, humidity and repeatability
 - Fitness, medical, industrial and many other applications



- Stretch sensor**
- Flexible and stretchable, provides real-time when it is extended or stretched around 3D objects
 - Applications: wearable devices, motion-monitoring systems



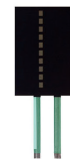
- Pressure sensor array**
- Provides multi-touch function with position (X-Y) and force (Z) detection
 - Pressure distribution applications such as body and foot pressure mapping system, balance training and rehabilitation, and inventory management



- Membrane position sensor**
- Slim and flexible
 - IoT and logistics, industrial and many other applications



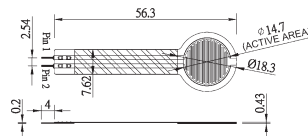
- Bending detection sensor**
- Thinner thickness, unaffected by pressure
 - High-resolution and durable
 - One-way bending detection, and can detect which side is bent
 - Rehabilitation, gaming and many applications



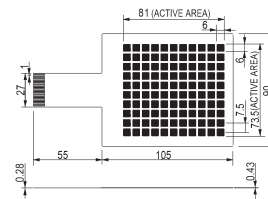
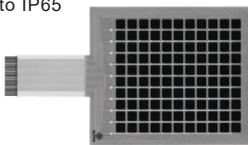
- Membrane force & position sensor**
- Ultra-thin, flexible and sealed properties, velocity-sensitive
 - Rotary position sensor with center force detection function
 - Fitness, medical, industrial and many other applications

P689400

Membrane force sensor



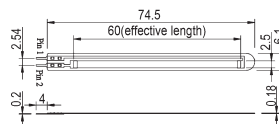
Force sensitivity range	30g~1000g (0.3N~9.8N)
Stand-off resistance	>20MΩ (unloaded)
Response time	<1ms
Life cycle (without failure)	>10 million
Operating temperature	-30°C to +85°C

P689410Pressure sensor array
can reach to IP65

Force sensitivity range	50g~5000g (0.5N~49N)
Stand-off resistance	>20MΩ (unloaded)
Response time	<1ms
Life cycle (without failure)	>1 million
Operating temperature	-30°C to +85°C

P689415

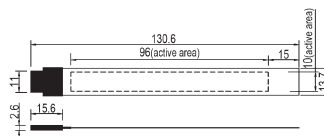
Bending detection sensor



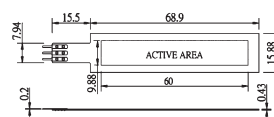
Angle range	0°~180°
Resolution	1°
Power rating	0.5W Max. @25°C
Response time	<1ms
Life cycle	>1 million
Operating temperature	-30°C to +80°C

P689420

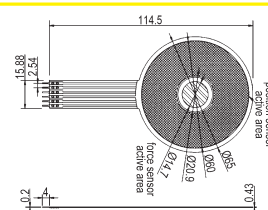
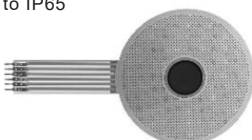
Stretch sensor



Stretchable range	0~100%
Active sensing zone	96 x 10 mm
Capacitance(un-stretched)	160pf~240pf
Operating temperature	10°C to 50°C

P689425Membrane position sensor
can reach to IP65

Position linearity	±3% (independent)
Resistance tolerance	±20%
Power rating	1W Max. @25°C
Life cycle (without failure)	>0.5 million
Operating temperature	-20°C to +70°C

P689430Membrane force & position sensor
can reach to IP65

Force sensitivity range	30g~1000g (0.3N~9.8N)
Stand-off resistance	>20MΩ (unloaded)
Position linearity	±3% (independent)
Power rating	1W Max. @25°C
Response time	<1ms
Life cycle	>0.5 million
Operating temperature	-20°C to +70°C

W98100A /B

Illuminated emergency exit sign

- ⊙ Maintained 3 hours
- ⊙ Can reach to IP42
- ⊙ 370 x 178 x 73.5 mm
- ⊙ Lamp
- A : T5/8W
- B : LED


W98130

LED emergency light

- ⊙ 0.07W x 36pcs LED
- ⊙ 3.6V / 700mAh (Ni-Cd battery)
- ⊙ Rated voltage : AC 110 / 220V
- ⊙ Rated current : 0.08 / 0.15A
- ⊙ Rated frequency : 50 / 60Hz
- ⊙ Charging time : 48HR
- ⊙ Discharging time : 1.5HR
- ⊙ 145 x 75 x 35 mm


W98102A /B

Illuminated emergency exit sign

- ⊙ Maintained 3 hours
- ⊙ Can reach to IP20
- ⊙ 377 x 188 x 60 mm
- ⊙ Lamp
- A : T5/8W
- B : LED


W98132

LED emergency light

- ⊙ 0.07W x 24pcs LED
- ⊙ 3.6V / 700mAh (Ni-Cd battery)
- ⊙ Rated voltage : AC 110 / 220V
- ⊙ Rated current : 0.1A
- ⊙ Rated frequency : 60Hz
- ⊙ Charging time : 48HR
- ⊙ Discharging time : 1.5HR
- ⊙ 160 x 90 x 50 mm


W98104A /B

Illuminated emergency exit sign

- ⊙ Double sided legend panel
- ⊙ Maintained 3 hours
- ⊙ Can reach to IP20
- ⊙ Viewing distance : 35M
- ⊙ 415 x 200 x 8 mm
- ⊙ Lamp
- A : T5/8W
- B : LED


W98140A /B

Round emergency broadcasting speaker

- ⊙ 4" Cone type speaker
- ⊙ Ceiling / wall
- ⊙ AC 100V
- ⊙ 92dB/1M
- ⊙ Material : ABS
- ⊙ 190ø x 58 mm
- A : 3W
- B : 5W


W98106A /B

Illuminated emergency exit sign

- ⊙ Maintained 3 hours
- ⊙ Can reach to IP20
- ⊙ Viewing distance : 40M
- ⊙ 415 x 200 x 8 mm
- ⊙ Lamp
- A : T5/8W
- B : LED


W98142A /B

Square emergency broadcasting speaker

- ⊙ 4" Cone type speaker
- ⊙ Ceiling / wall
- ⊙ AC 100V
- ⊙ 92dB/1M
- ⊙ Material : ABS
- ⊙ 155 x 155 x 64 mm
- A : 3W
- B : 5W



W98300

LED inspection light

⊙DC 5V/0.5A

⊙3.7V / 800mAh (Li-ion battery)

⊙22.9 x 26.4 x 170 mm

⊙High : 100lm

Top : 85lm

High: 5H
Top: 5H**W98310**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙32.3 x 34.4 x 190.7 mm

⊙High : 550lm

Low : 280lm

High: 4H
Low: 8.5H**W98302**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙34 x 28.7 x 375.2 mm

⊙High : 720lm

Low : 380lm

Top : 58lm

High: 2.5H
Low: 5H
Top: 22H**W98312**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙46 x 46 x 211 mm

⊙High : 800lm

Low : 400lm

Top : 250lm

High: 3H
Low: 6H
Top: 8.5H**W98304**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙46.5 x 44.5 x 447 mm

⊙High : 700lm

Low : 350lm

Top : 100lm

High: 3.5H
Low: 6.5H
Top: 9H**W98314**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙45 x 34 x 200.8 mm (w/o holder)

⊙High : 800lm

Low : 460lm

Top : 160lm

High: 3H
Low: 6H
Top: 8H**W98306**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 3350mAh (Li-ion battery)

⊙45.9 x 49.3 x 311.5 mm

⊙High : 700lm

Low : 350lm

Top : 100lm

High: 3.5H
Low: 6.5H
Top: 9H**W98320**

LED inspection light

⊙DC 5V/1A

⊙3.7V / 4400mAh (Li-ion battery)

⊙41.4 x 58.4 x 217.1 mm

⊙High : 800lm

Low : 400lm

High: 4H
Low: 7H

W98330

LED floodlight

⊙DC 9V/2A

⊙7.4V / 3350mAh (Li-ion battery)

⊙183.8 x 66.1 x 158.7 mm

⊙High : 1300lm

Low : 640lm

**W98340**

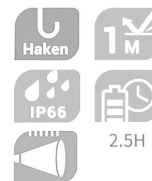
LED searchlight

⊙DC 9V/2A

⊙7.4V / 3350mAh (Li-ion battery)

⊙126(dia) x 64 x 250 mm

⊙Spot : 2500lm

**W98332**

LED floodlight

⊙DC 9V/2A

⊙7.4V / 3350mAh (Li-ion battery)

⊙183.8 x 66.1 x 158.7 mm

⊙High : 1300lm

Low : 700lm

Spot : 350lm

Full : 640lm

**W98342**

LED searchlight

⊙DC 12V/24V

⊙121(dia) x 60.4 x 251.6 mm

⊙Spot : 4000lm

**W98334**

LED floodlight

⊙DC 16.8V/2.1A

⊙14.8V / 5200mAh (Li-ion battery)

⊙271.8 x 86.4 x 222.1 mm

⊙High : 2640lm

Low : 1340lm

**W98344**

LED floodlight

⊙AC 100-240V

⊙12V / 14Ah (Lead-acid battery)

⊙728 x 239.2 x 218.4 mm (collapsed size)

⊙Extension length of shaft : 730mm-1800mm

⊙High : 2400lm

Low : 1100lm

**W98336**

LED floodlight

⊙DC 18V/2A

⊙7.4V / 3350mAh x 4pcs (Li-ion battery)

⊙173.3 x 126 x 225 mm

⊙High : 1600lm

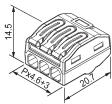
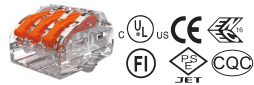
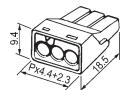
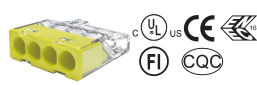
Low : 800lm



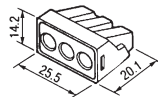
Splicing connectors for electrical industry

X97620

A: 2P B: 3P D: 5P

**X97622**A: 2P(red) B: 3P(orange)
C: 4P(yellow)**X97624**

B: 3P



Feature

•Wire range

X97620 : 0.2 to 4mm²**X97622** : 0.5 to 2.5mm²**X97624** : 2.5 to 6.0mm²

•Transparent body for visual inspection shows whether the conductor is inserted properly and stripped to the correct length.

•All connectors are with test ports, provide convenient testing conditions.

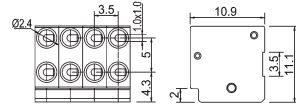
X97662

3.5mm Terminal block

A: 2P B: 3P C: 4P D: 5P

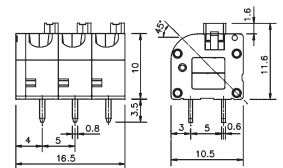
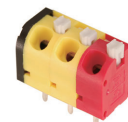
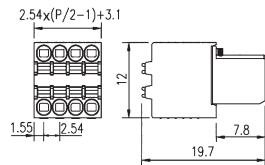
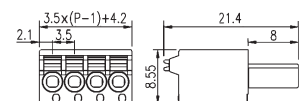
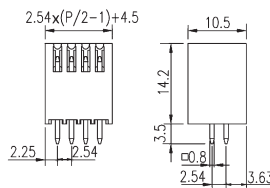
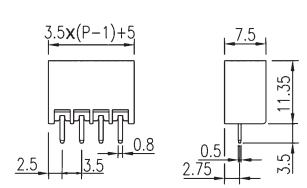
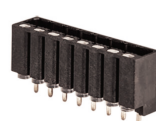
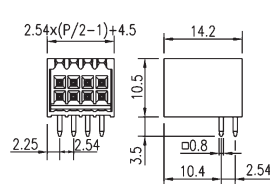
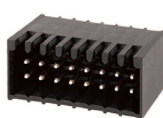
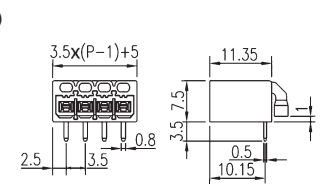
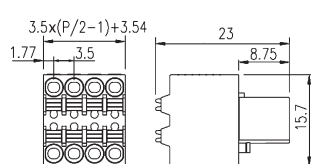
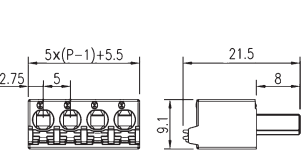
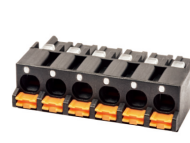
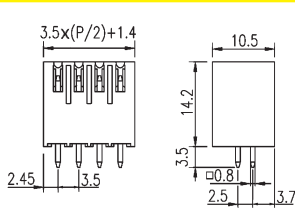
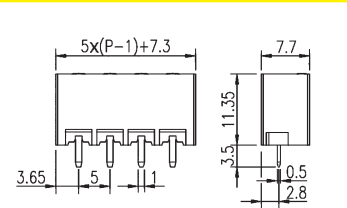
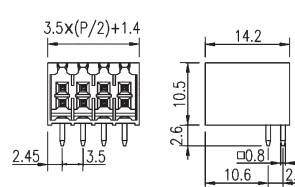
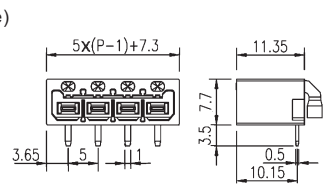
E: 6P F: 7P G: 8P H: 9P

J: 10P K: 11P L: 12P

Color : red black
yellow white**X97709**

3P 5mm Terminal block

Color : Yellow-Yellow-Red

**X9773AXX**2.54mm Male terminal block
06~44 pin**X9773GXX**3.5mm Male terminal block
With light pipe
02~24 pin**X9773BXX**2.54mm Female terminal block
06~44 pin**X9773HXX**3.5mm Female terminal block
With light pipe
02~24 pin**X9773CXX**2.54mm Female terminal block (right angle)
06~44 pin**X9773JXX**3.5mm Female terminal block (right angle)
With light pipe
02~24 pin**X9773DXX**3.5mm Male terminal block
04~44 pin**X9773KXX**5mm Male terminal block
With light pipe
02~16 pin**X9773EXX**3.5mm Female terminal block
04~44 pin**X9773LXX**5mm Female terminal block
With light pipe
02~16 pin**X9773FXX**3.5mm Female terminal block (right angle)
04~44 pin**X9773MXX**5mm Female terminal block (right angle)
With light pipe
02~16 pin

X98007

Modular plug cover



Assembly guide for X981126 & X981128



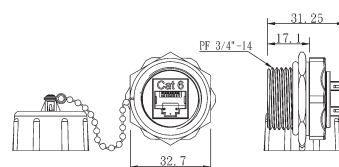
X9808861 (X980906)

Modular plug (8P8C) for CAT.6
3-prong contact blades
passing through type



X98301

Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



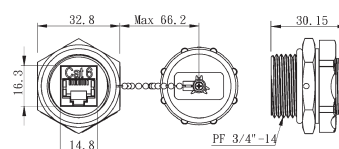
X980886S (X980906S)

Modular shielded plug (8P8C) for CAT.6
3-prong contact blades
passing through type



X98303

Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



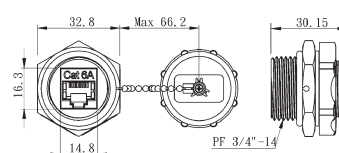
X9808862 (X980916)

Modular plug (8P8C) W/arch latch for CAT.6
3-prong contact blades
passing through type



X98304

Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



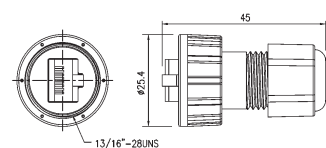
X980896S (X980926S)

Modular shielded plug (8P8C) W/insert for CAT.6a
3-prong contact blades



X98310

Waterproof modular plug (8P8C) for CAT.6
can reach to IP67



X981126

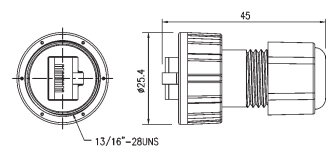
Field termination RJ45 plug for CAT.6a
can reach to IP20

Color: red orange yellow
green blue black white



X98311

Waterproof modular shielded plug (8P8C) for CAT.6
can reach to IP67



X981128

Field termination RJ45 plug for CAT.8
can reach to IP20

Color: red orange yellow
green blue black white

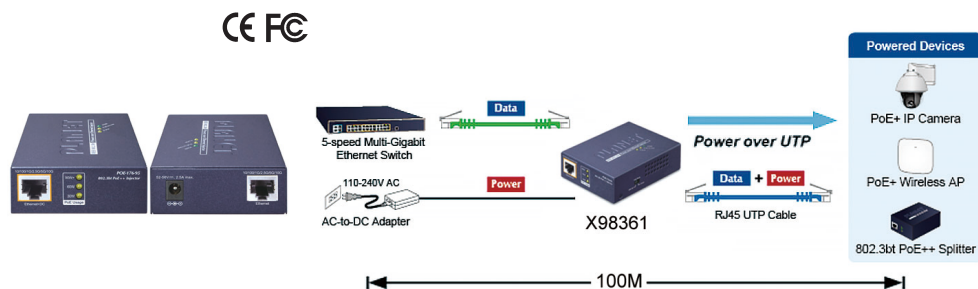


X98361

Single-port 95W 802.3bt PoE++ injector

Specifications:

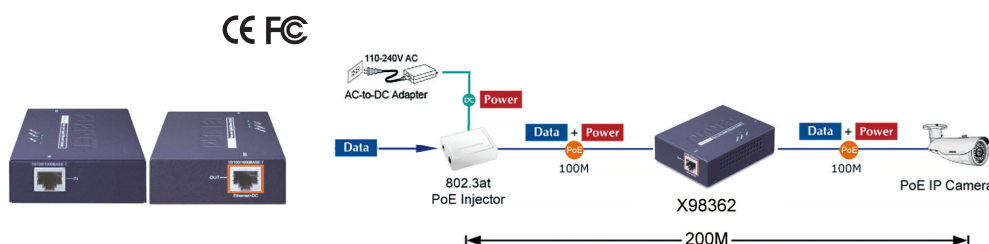
- Input port: 1 x RJ45 STP
- Output port: 1 x RJ45 STP PoE
- DC input: 52V~56VDC/2.5A Max.
- Data rate: 10M/100M/1G/2.5G/5G/10Gbps
- PoE output power:
 - 54VDC/30W PoE via 2-pair
 - 54VDC/60W PoE via 4-pair
 - 54VDC/95W PoE via 4-pair
- PoE power type: End-span+Mid-span
- PoE standard: IEEE 802.3af/at/bt PSE
- Operating Temp.: 0°C to 50°C
- Dimensions: 94(W) x 70(D) x 26(H) mm
- Weight: 195g

**X98362**

Single-port 26W 802.3at PoE+ extender

Specifications:

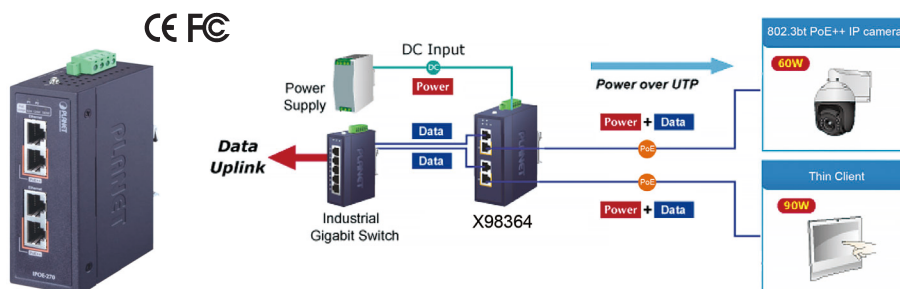
- Input port: 1 x IEEE 802.3af/at PoE
- Output port: 1 x IEEE 802.3af/at PoE
- PoE input power: 48V~56VDC/30.8W Max.
- Data rate: 10M/100M/1000Mbps
- PoE output power: 44V~52VDC/26W Max.
- PoE power type: End-span/Type A
- PoE standard: IEEE 802.3af/at PSE
- Operating Temp.: -10°C to 60°C
- Dimensions: 94(W) x 70(D) x 26(H) mm
- Weight: 189g

**X98364**

Industrial 2-ports 180W 802.3bt PoE++ injector hub can reach to IP30

Specifications:

- Input port: 2 x RJ45 STP
- Output port: 2 x RJ45 STP PoE
- DC input: 48V~56VDC/2.5A Max.
- Data rate: 10M/100M/1G/2.5G/5Gbps
- PoE output power: 48VDC/120W Max.
- 52V/54V/56VDC/180W Max.
- PoE power type: End-span+Mid-span
- PoE standard: IEEE 802.3at/bt PSE
- Operating Temp.: -40°C to 75°C
- Dimensions: 41(W) x 70(D) x 115(H) mm
- Weight: 284g

**X98366**

4-ports 65W 802.3at PoE+ with 2 uplink ports switch

Specifications:

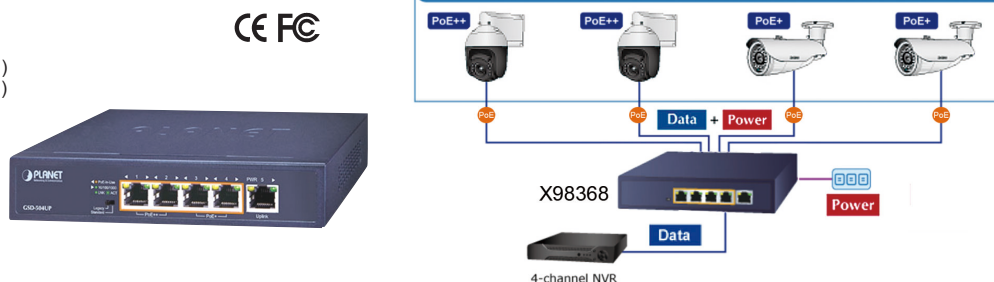
- Input port: 2 x RJ45 STP
- Output port: 4 x RJ45 STP 802.3af/at PoE
- DC input: 54VDC/1.3A Max.
- Data rate: 10M/100M/1000Mbps
- PoE output power (per port):
 - 54VDC/15.4W Max.@802.3af
 - 54VDC/30W Max.@802.3at
- PoE power type: End-span
- PoE standard: IEEE 802.3af/at PSE
- Operating Temp.: 0°C to 50°C
- Dimensions: 168(W) x 93(D) x 32(H) mm
- Weight: 374g

**X98368**

2-ports 90W 802.3bt PoE++ & 2-ports 30W 802.3at PoE+ with 1 uplink port switch

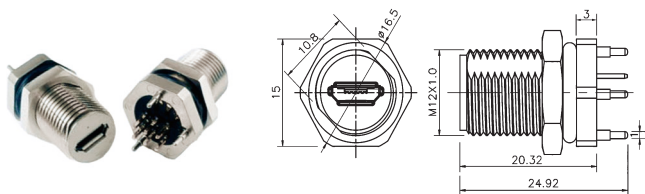
Specifications:

- Input port: 1 x RJ45 STP
- Output port: 2 x 802.3bt PoE++ (Ports 1&2)
2 x 802.3af/at PoE+ (Ports 3&4)
- DC input: 55VDC/2.8A Max.
- Data rate: 10M/100M/1000Mbps
- PoE output power: 90W Max. (Ports 1&2)
30W Max. (Ports 3&4)
- PoE power type:
 - End-span+Mid-span (Ports 1&2)
 - End-span (Ports 3&4)
- PoE standard: IEEE 802.3at/bt PSE
- Operating Temp.: 0°C to 50°C
- Dimensions: 168(W) x 93(D) x 32(H) mm
- Weight: 414g



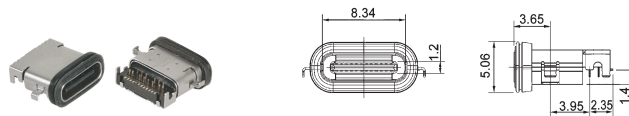
Y98846

Waterproof 5P micro USB/B type socket
can reach to IP67



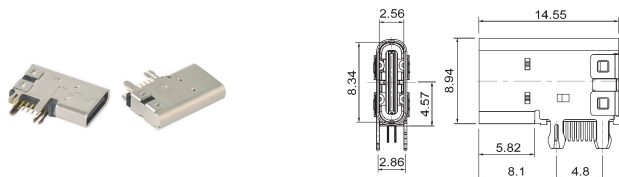
Y989095

Waterproof USB 3.1/C type socket (DIP+SMD)
can reach to IP67



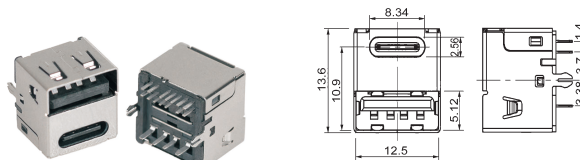
Y989083

USB 3.1/C type socket right angle



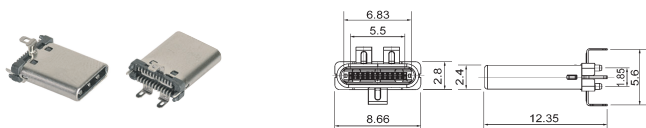
Y990075

USB/A type & USB 3.1/C type socket



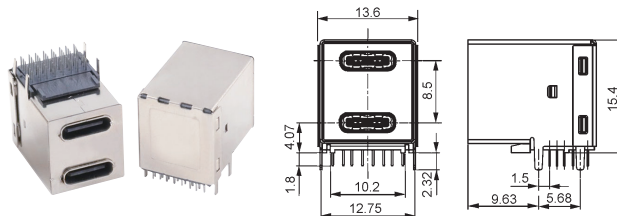
Y989092

USB 3.1/C type plug



Y990077

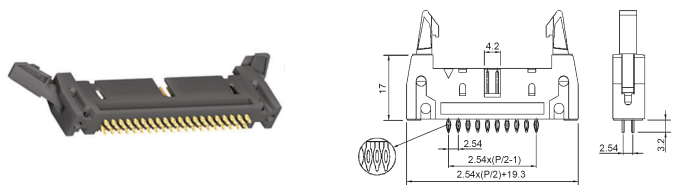
USB 3.2/C type dual socket



Box header 2.54mm press fit type

Straight : **YRPxx**

No. of pins : 10 to 64



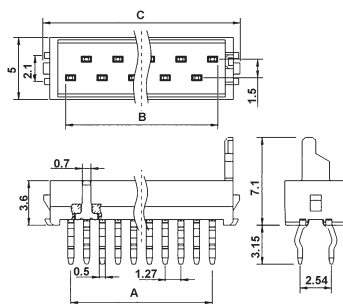
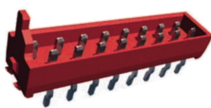
Box header 2.54mm press fit type

Straight : **YRPWxx** (W/O latch lever)

No. of pins : 10 to 64

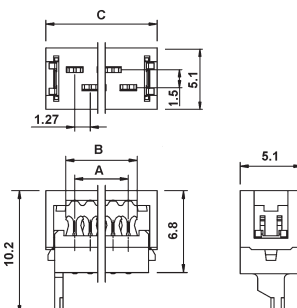


Micro-Match male connector
2.54mm pitch
On board type



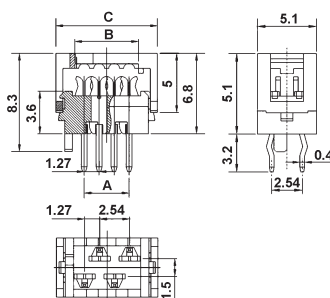
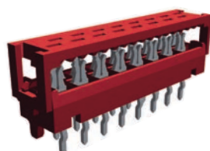
Pins	Part No.	A	B	C
4	YNRA04	3.81	5.40	8.20
6	YNRA06	6.35	8.00	10.70
8	YNRA08	8.89	10.50	13.30
10	YNRA10	11.43	13.00	15.80
12	YNRA12	13.97	15.60	18.30
14	YNRA14	16.51	18.10	20.80
16	YNRA16	19.05	20.70	23.40
18	YNRA18	21.59	23.20	25.90
20	YNRA20	24.13	25.70	28.40
24	YNRA24	29.21	30.80	33.60

Micro-Match male connector
2.54mm pitch
On wire type



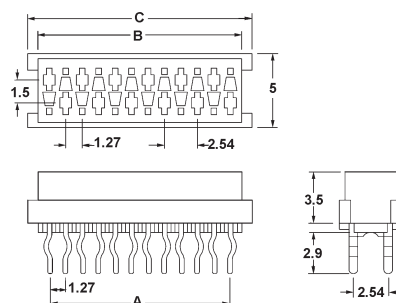
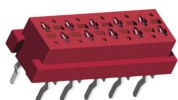
Pins	Part No.	A	B	C
4	YNRB04	3.81	5.40	8.60
6	YNRB06	6.35	8.00	11.10
8	YNRB08	8.89	10.50	13.60
10	YNRB10	11.43	13.00	16.20
12	YNRB12	13.97	15.60	18.70
14	YNRB14	16.51	18.10	21.30
16	YNRB16	19.05	20.70	23.80
18	YNRB18	21.59	23.20	26.30
20	YNRB20	24.13	25.70	28.90
24	YNRB24	29.21	30.80	34.00
26	YNRB26	31.75	33.30	36.50

Micro-Match male connector
2.54mm pitch
Paddle type



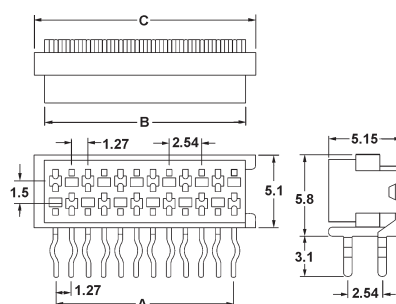
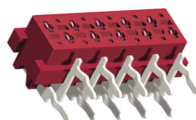
Pins	Part No.	A	B	C
4	YNRC04	3.81	5.40	8.60
6	YNRC06	6.35	8.00	11.10
8	YNRC08	8.89	10.50	13.60
10	YNRC10	11.43	13.00	16.20
12	YNRC12	13.97	15.60	18.70
14	YNRC14	16.51	18.10	21.30
16	YNRC16	19.05	20.70	23.80
18	YNRC18	21.59	23.20	26.30
20	YNRC20	24.13	25.70	28.90
24	YNRC24	29.21	30.80	34.00

Micro-Match female connector
2.54mm pitch
Straight type



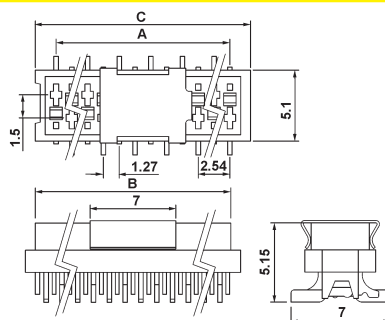
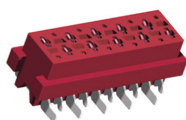
Pins	Part No.	A	B	C
4	YNRE04	3.81	5.59	6.98
6	YNRE06	6.35	8.13	9.52
8	YNRE08	8.89	10.67	12.06
10	YNRE10	11.43	13.21	14.60
12	YNRE12	13.97	15.75	17.14
14	YNRE14	16.51	18.29	19.68
16	YNRE16	19.05	20.83	22.22
18	YNRE18	21.59	23.37	24.76
20	YNRE20	24.13	25.91	27.30
22	YNRE22	26.67	28.45	29.84
24	YNRE24	29.21	30.99	32.38
26	YNRE26	31.75	33.53	34.92

Micro-Match female connector
2.54mm pitch
Right angle type



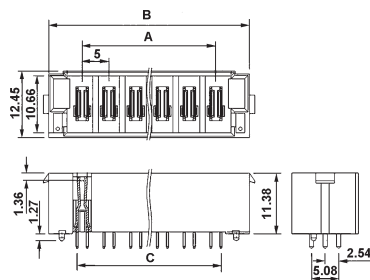
Pins	Part No.	A	B	C
4	YNRF04	3.81	5.59	6.98
6	YNRF06	6.35	8.13	9.52
8	YNRF08	8.89	10.67	12.06
10	YNRF10	11.43	13.21	14.60
12	YNRF12	13.97	15.75	17.14
14	YNRF14	16.51	18.29	19.68
16	YNRF16	19.05	20.83	22.22
18	YNRF18	21.59	23.37	24.76
20	YNRF20	24.13	25.91	27.30
22	YNRF22	26.67	28.45	29.84
24	YNRF24	29.21	30.99	32.38
26	YNRF26	31.75	33.53	34.92

Micro-Match female connector
2.54mm pitch
SMD type



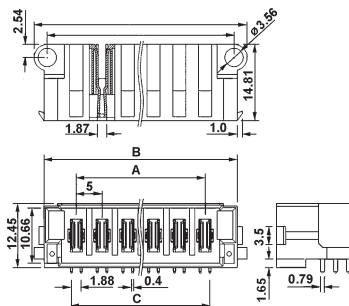
Pins	Part No.	A	B	C
4	YNRG04	3.81	5.59	6.98
6	YNRG06	6.35	8.13	9.52
8	YNRG08	8.89	10.67	12.06
10	YNRG10	11.43	13.21	14.60
12	YNRG12	13.97	15.75	17.14
14	YNRG14	16.51	18.29	19.68
16	YNRG16	19.05	20.83	22.22
18	YNRG18	21.59	23.37	24.76
20	YNRG20	24.13	25.91	27.30
22	YNRG22	26.67	28.45	29.84
24	YNRG24	29.21	30.99	32.38
26	YNRG26	31.75	33.53	34.92

Mini-power male connector
5mm pitch
Straight type



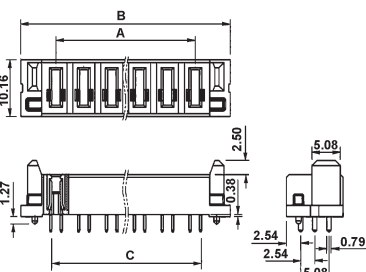
Pins	Part No.	A	B	C
2	YNXA02	5.00	17.55	6.88
3	YNXA03	10.00	22.55	11.88
4	YNXA04	15.00	27.55	16.88
6	YNXA06	25.00	37.55	26.88
8	YNXA08	35.00	47.55	36.88

Mini-power male connector
5mm pitch
Right angle type



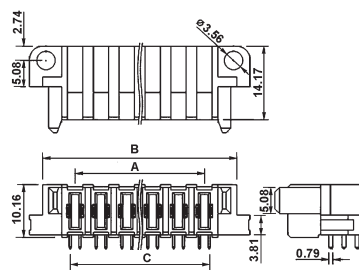
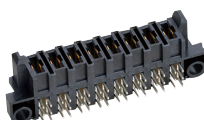
Pins	Part No.	A	B	C
2	YNXB02	5.00	17.55	6.88
3	YNXB03	10.00	22.55	11.88
4	YNXB04	15.00	27.55	16.88
6	YNXB06	25.00	37.55	26.88
8	YNXB08	35.00	47.55	36.88

Mini-power female connector
5mm pitch
Straight type



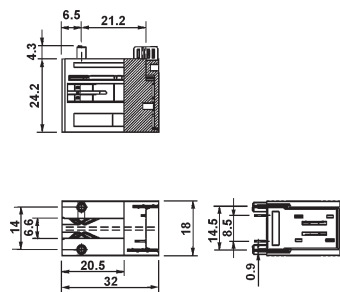
Pins	Part No.	A	B	C
2	YNXC02	5.00	17.55	6.88
3	YNXC03	10.00	22.55	11.88
4	YNXC04	15.00	27.55	16.88
6	YNXC06	25.00	37.55	26.88
8	YNXC08	35.00	47.55	36.88

Mini-power female connector
5mm pitch
Right angle type

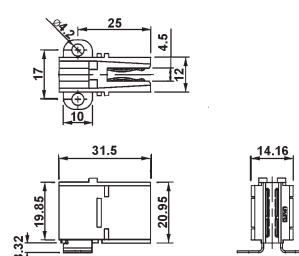


Pins	Part No.	A	B	C
2	YNXD02	5.00	17.55	6.88
3	YNXD03	10.00	22.55	11.88
4	YNXD04	15.00	27.55	16.88
6	YNXD06	25.00	37.55	26.88
8	YNXD08	35.00	47.55	36.88

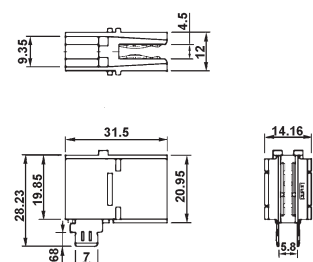
YNXG016
Busbar connector 16A
Switch type
Mates conductor thickness 5mm



YNXH180
Busbar connector 180A
Screw type
Mates conductor thickness 3mm



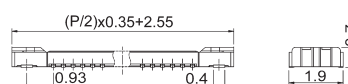
YNXJ200
Busbar connector 200A
Right angle type
Mates conductor thickness 3mm



Board to board male connector (SMD)
YSB03Axx

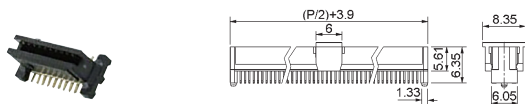


Board to board female connector (SMD)
YSB03Bxx

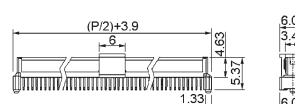


0.35mm pitch (10 to 60 pins) male + female = 0.7mm

Board to board male connector (SMD)
YSB10Axx

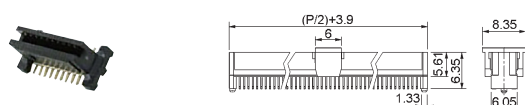


Board to board female connector (SMD)
YSB10Dxx

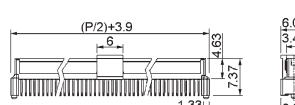


1.0mm pitch (20/30/34/40/64/80 pins) male + female = 8mm

Board to board male connector (SMD)
YSB10Axx

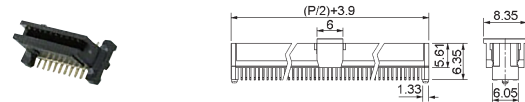


Board to board female connector (SMD)
YSB10Exx

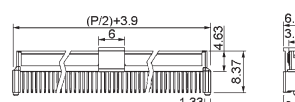


1.0mm pitch (20/30/34/40/64/80 pins) male + female = 10mm

Board to board male connector (SMD)
YSB10Axx

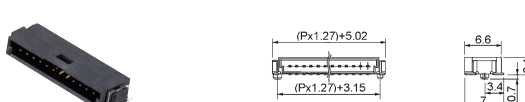


Board to board female connector (SMD)
YSB10Fxx

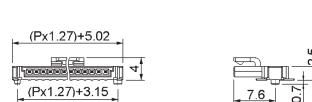


1.0mm pitch (20/30/34/40/64/80 pins) male + female = 11mm

Board to board male connector (SMD)
YSB127Axx



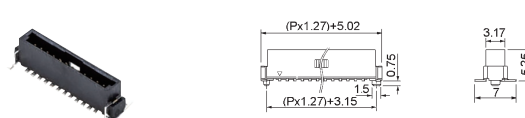
Board to board female connector (SMD)
YSB127Bxx



1.27mm pitch (12 pins)

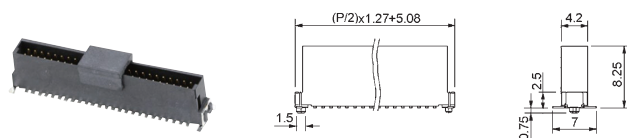
1.27mm pitch (12 pins)

Board to board male connector (SMD)
YSB127Cxx

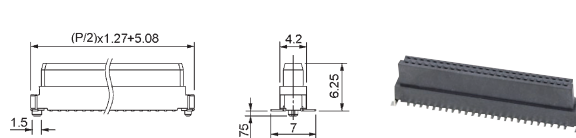


1.27mm pitch (12 pins)

Board to board male connector dual rows (SMD)
YSB127Exx

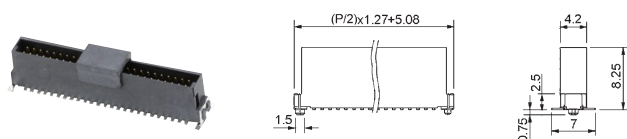


Board to board female connector dual rows (SMD)
YSB127Fxx

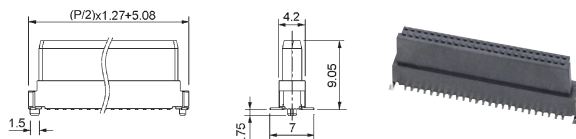


1.27mm pitch (80 pins) male + female = 9.5mm

Board to board male connector dual rows (SMD)
YSB127Exx

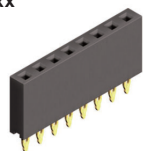


Board to board female connector dual rows (SMD)
YSB127Gxx



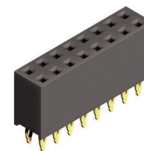
1.27mm pitch (80 pins) male + female = 12.3mm

Female header single row (press fit type)
YTU1Pxx

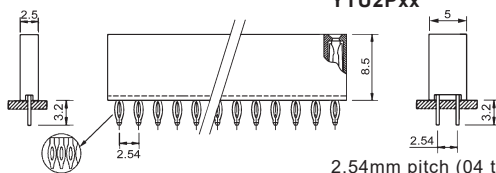


2.54mm pitch (02 to 40 pins)

Female header dual rows (press fit type)
YTU2Pxx



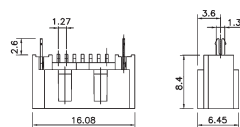
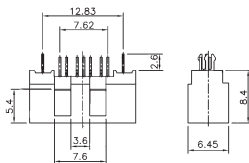
2.54mm pitch (04 to 80 pins)



7P SATA 3.0 female dip type
YXSE07F



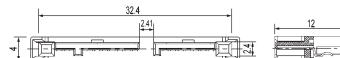
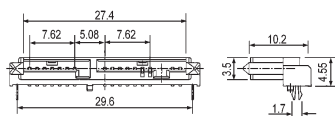
7P SATA 3.0 female SMD type
YXSE07F1



7+9P Micro SATA female SMD type
YXSE16F



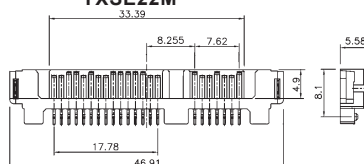
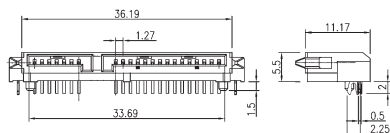
7+9P Micro SATA male SMD type
YXSE16M



7+15P SATA 3.0 female dip type (right angle)
YXSE22F



7+15P SATA 3.0 male SMD type
YXSE22M



ZSN131

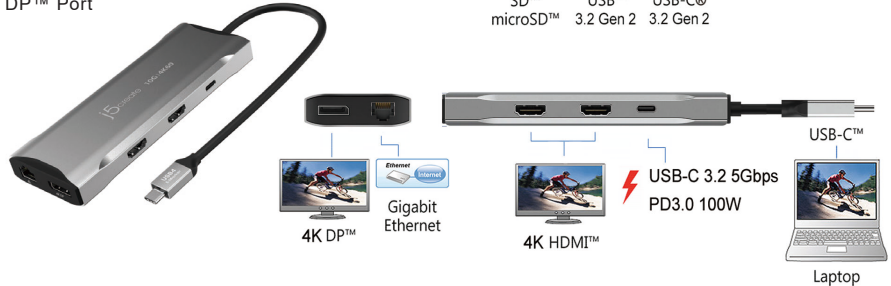
USB 3.2/C type triple display docking station (20cm)

Features:

- Advanced USB-C® E-Mark chip integrates USB4™, Thunderbolt™ 3 and Thunderbolt™ 4 compatibility
- Supports dual 4K60Hz or triple 4K30Hz (2xHDMI™ and 1xDisplayPort™) on compatible USB-C® laptops with DisplayPort™ 1.4 alt mode(MST support)
- Charge and power connected laptop and peripherals with 100W Power Delivery
- SD™ & microSD™ 4.0 memory card reader/writer for media storage and transfer
- Supports audio 2.1 channel via HDMI™
- Easily add a wired network connectivity with the Gigabit Ethernet port
- Extending one display up to 3840x2160@60, easily switch to a higher refresh rate of 2560x1440@144 via HDMI™ or 1920x1080@240 via DP™ Port

Specifications:

- Upstream port: USB 3.2 Gen 2/C type x 1 with PD3.0 (supports up to 100W Max.)
- Downstream USB port: USB 3.2 Gen 2/A type x 2 USB 3.2 Gen 2/C type x 2 (one port supports PD3.0)
- Video output: HDMI x 2 (resolution of 4K@60Hz) DisplayPort x 1 (resolution of 4K@60Hz)
- Ethernet port: RJ45 x1 (10/100/1000 BASE-T)
- SD 3.0 and microSD 3.0 card slots
- Dimensions: 148 (L) x 55 (W) x 17 (H) mm

**ZSN133**

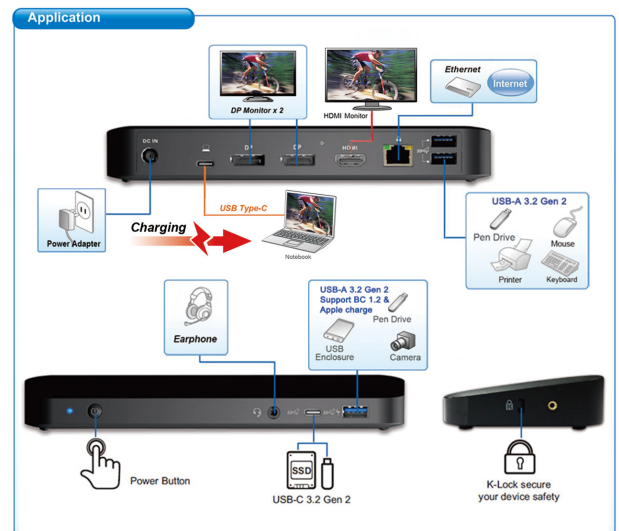
USB 3.2/C type DP1.4 MST PD docking station

Features:

- USB/C MST dock supports dual 4K monitors with DP 1.4 MST technology
- Connect your USB devices with USB/A type and USB/C type
- Data transmission up to 10Gbps between USB peripherals
- Max.85W power charging to laptop
- Smart power management for power budget saving
- Secure your device safety with K-Lock design
- Supports Gigabit Ethernet

Specifications:

- Upstream port: USB 3.2 Gen 2/C type x 1
- Downstream port: USB 3.2 Gen 2/A type x 3 (one port supports BC 1.2 and Apple charging) USB 3.2 Gen 2/C type x 1
- Video output: HDMI 2.0 x 1 DisplayPort 1.4++ x 2
- Supports resolution: 5K60, 4K60, 4K30, QHD60, FHD60, FHD30
- Ethernet port: RJ45 x1 (10/100/1000 BASE-T)
- Combo audio jack (in/out) x 1
- Power adapter: 20VDC 5A
- Dimensions: 190 (L) x 85.3 (W) x 26.7 (H) mm

**ZSN135**

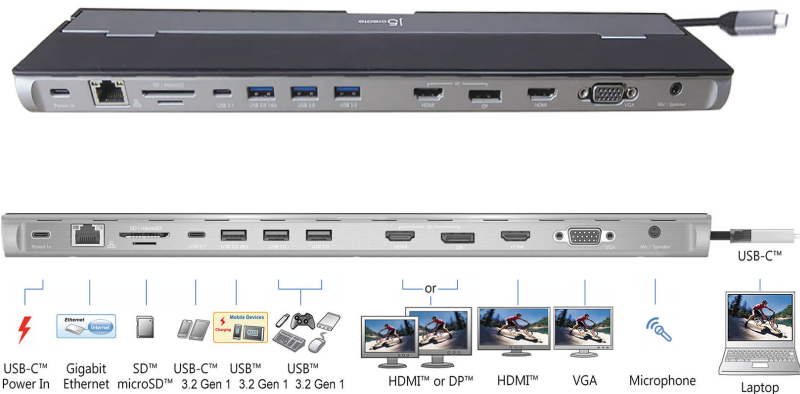
13 In 1 USB 3.2/C type triple display docking station (45cm)

Features:

- Extend up to three monitors through HDMI, VGA and DisplayPort or HDMI
- Designed to be used as a notebook stand, which assists with heat dissipation
- Supports power delivery 3.0, allowing you to keep charging your notebook or smartphone while using the adapter
- USB/C power delivery 100W pass-through
- DisplayPort Alt mode supported
- Supports Gigabit Ethernet

Specifications:

- Upstream port: USB 3.2 Gen 2/C type plug x 1
- Downstream USB port: USB 3.2 Gen 1/A type x 3 (one port supports BC 1.2) USB 3.2 Gen 1/C type x 2 (one port supports PD3.0)
- Video output: HDMI x 1 (resolution of 4K@30Hz) VGA x 1 (resolution of 1920x1080P) DisplayPort x 1 or HDMI x 1 (resolution of 4K@30Hz)
- Ethernet port: RJ45 x1 (10/100/1000 BASE-T)
- IEEE 802.3az, IEEE 802.3, 802.3u, and 802.3ab, IEEE 802.3x
- SD 3.0 and microSD 3.0 card slots
- Combo audio jack: Microphone and speaker
- Dimensions: 350 (L) x 82.5 (W) x 23.4 (H) mm



ZSN140

Thunderbolt™ 3 dual HDMI adapter (27cm)



Introduction:

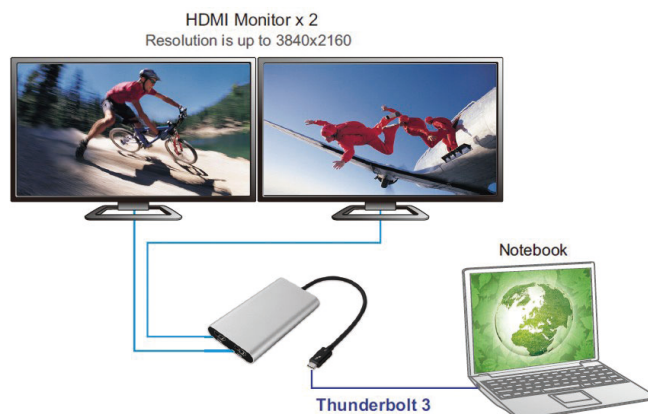
The Thunderbolt™ 3 Dual HDMI 2.0 output adapter lets users easily connect two HDMI embedded devices from PCs with Thunderbolt 3 interface. This adapter's output resolution is up to 3840 x 2160@60Hz. No need to install extra drivers, just plug and play, and start to enjoy your high-end life with this slim and stylish adapter.

Features:

- Thunderbolt 3 technology
- Support bus-powered 15W

Specifications:

- Upstream port: Thunderbolt™ 3 male connector x 1
- Downstream port: HDMI female connector x 2 (up to 3840 x 2160 @60Hz resolution)
- System requirements: PC with Thunderbolt 3 interface
- Supported operating system: Windows®10, MacOS®
- Dimensions: 110(L) x 56(W) x 16(H)mm



ZSN143

Thunderbolt™ 3 docking station



Introduction:

The Thunderbolt™ 3 PD dock is designed for extra connectivity demands. With this docking station, you can extend the connection of a computer to more USB peripherals such as Ethernet network, the speaker and the microphone. Adopting PD Charging technology, upstream charging function through Thunderbolt interface, you can charge the laptop. In addition, the driver is included in the docking station.

Features:

- Slim and fashionable design
- Thunderbolt 3 technology

Specifications:

- Upstream port: USB/C type Thunderbolt™ 3
- Downstream port: USB 3.2 Gen1/A type x 5 (one port supports BC 1.2)
- Video output: HDMI 2.0 x 1 (supports resolution up to 4K@60Hz)
- LAN: RJ45 Gigabit Ethernet x 1 (10/100/1000 BASE-T)
- Upstream PD charging: 5/9/15/20V, up to 85W
- Combo audio jack x 1
- Support SD 3.0 card reader
- Supported operating system: Windows®10, MacOS®



ZSN145

Thunderbolt™ 3 DP1.4 triple display docking station



Introduction:

The Thunderbolt™ 3 dock is the best single-cable docking station to provide high speed data transfer, and support dual 4K@60Hz displays, as well as quick notebook charging with single cable. It is designed for extend connectivity demands on both MacOS® and Windows® OS with bandwidth up to 40Gbps.

Features:

- Compatible with TBT and USB/C type MDP mode

Specifications:

- Thunderbolt™ 3 dual port with PD up to 85W x 1
- Video output: DisplayPort 1.4 x 2 (up to 8K @30Hz)
VGA x 1 (up to full HD)
- USB 3.2 Gen 2/C type 10Gbps x 2
- USB 3.2 Gen 1/A type x 4 (one port supports BC 1.2)
- SD 4.0 and Micro SD 4.0 card slots
- LAN: RJ45 Gigabit Ethernet x 1 (10/100/1000 BASE-T)
- Combo audio jack x 1
- Windows® and macOS® (Video out clone mode only)



RH10150

Temperature & humidity sensor module

Specifications:

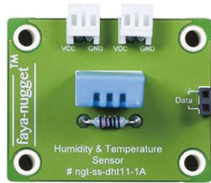
- Operating voltage: 5VDC
- Humidity range: 20 ~ 90% RH
- Temp. range: 0°C to 50°C
- Humidity accuracy: ±5% RH
- Temp. accuracy: ±2°C

Features:

- Fully calibrated, digital output
- Excellent long-term stability
- Low power consumption

Applications:

- HVAC
- Automotive
- Consumer goods
- Weather stations
- Humidifiers
- Dehumidifiers
- Test & measurement
- Data logging
- Automation
- White goods
- Medical

**RH10158**

Triaxial acceleration sensor module

Specifications:

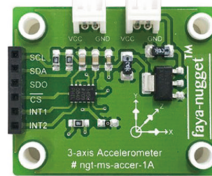
- Operating voltage: 5VDC
- Operating current: 145µA
- Standby current: 0.1µA
- Bandwidth: 1600Hz Max.
- Interface: SPI/I²C
- Measurement range: ±2g / ±4g / ±8g / ±16g
- Operating Temp.: -40°C to +85°C

Features:

- High resolution (4mg/LSB) enables measurement of inclination changes less than 1.0°
- Low power dissipation
- Power consumption scales automatically with bandwidth
- Flexible interrupt modes mappable to either interrupt pin
- Measurement ranges and bandwidth selectable via serial command

Applications:

- Handsets
- Medical instrumentation
- Gaming and pointing devices
- Personal navigation devices
- Hard disk drive (HDD) protection
- Fitness equipment

**RH10152**

Temperature sensor module

Specifications:

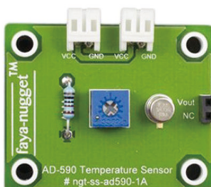
- Operating voltage: 5VDC
- Linear current output: 1µA/K
- Temp. range: -55°C to +150°C
- Two terminal device: Voltage in / current out
- Sensor isolation from case

Features:

It's a two-terminal integrated circuit temperature transducer that produces an output current proportional to absolute temperature. For supply voltages between 4V and 30V the device acts as a high impedance, constant current regulator passing 1 µA/K. Laser trimming of the chip's thin-film resistors is used to calibrate the device to 298.2 µA output at 298.2K (@25°C).

Applications:

- Floor control
- HVAC
- Test & measurement

**RH10160**

Combustible gas sensor module

Specifications:

- Operating voltage: 5VDC
- Detection range: 300 ~ 10000 ppm
- Heater power consumption: ≤900mW
- Sensitivity: $R_s(\text{in air}) / R_s(1,000\text{ppm C}_3\text{H}_8) \geq 5$

Features:

- Good sensitivity to combustible gas in wide range
- High sensitivity to methane, propane, and butane
- Long life

Applications:

- Domestic gas leakage detector
- Industrial combustible gas detector
- Portable gas detector

**RH10154**

Photoresistor light sensor module

Specifications:

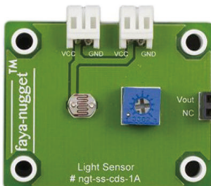
- Operating voltage: 5VDC
- Voltage: 150VDC Max.
- Power dissipation: 125mW
- Operating Temp.: -25°C to +75°C
- Peak spectral response: 570nm

Features:

- Fast response
- Good reliability
- High sensitivity
- Good spectrum characteristic

Applications:

- Contrast control in TV sets
- Auto flash for cameras
- Room light control
- Electronic toys
- Industrial control
- Street light

**RH10162**

Sound sensor module

Specifications:

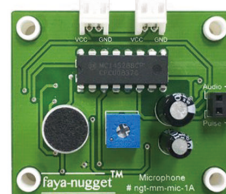
- Operating voltage: 5VDC
- Ranging distance: 0 ~ 500cm
- Input frequency: 500Hz ~ 40kHz
- S/N Ratio: 40dB or more
- Input sound pressure: 120dB SRL Max.
- Output model: Digital output (high / low level)

Features:

It's the most sensitive to the environment sound intensity, commonly used to detect the intensity of the sound of the surroundings. When module in the intensity of the sound environment can not reach set threshold, the OUT will output high level, when the intensity of the sound from the outside environment more than set threshold, the module OUT output low level.

Applications:

- Consumer electronics
- Security and monitoring systems
- Home automation
- Ambient sound recognition
- Sound level recognition

**RH10156**

Gyroscope sensor module

Specifications:

- Operating voltage: 5VDC
- Operating current: 6.1mA
- Power down current: 5µA
- Vlogic voltage: 1.71V ~ VDD+0.1
- Scale range: ±250/±500/±2000dps
- Sensitivity: 8.75 / 17.5 / 70 mdps/digit
- Digital output data rate: 100 / 200 / 400 / 800Hz

Features:

- It's a low-power three-axis angular rate sensor able to provide unprecedented stability of zero rate level and sensitivity over temperature and time
- I²C/SPI digital output interface
- 16 bit-rate value data output
- 8-bit temperature data output
- Embedded power-down and sleep mode
- Embedded temperature sensor
- Embedded FIFO
- High shock survivability

Applications:

- Gaming and virtual reality input devices
- Motion control with MMI (man-machine interface)
- GPS navigation systems
- Appliances and robotics

**RH10164**

Ultrasonic ranging sensor module

Specifications:

- Operating voltage: 5VDC
- Operating current: 15mA
- Operating frequency: 40kHz
- Sensing distance: 2 ~ 400cm
- Sensing angle: ≤15°
- Ranging accuracy: 3mm

Features:

It provides non-contact measurement function and includes ultrasonic transmitters, receiver and control circuit.

The basic principle of work:

- Using IO trigger for high level signal
- It automatically sends eight 40kHz and detect whether there is a pulse signal back
- If the signal back, through high level, time of high output IO duration is the time from sending ultrasonic to returning

Applications:

- Object distance measurement
- Level detection
- Security systems
- Vehicle detection / avoidance



RH10166

Touch sensor module

Specifications:

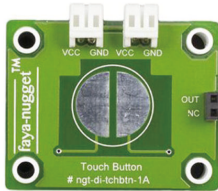
- Operating voltage: 5VDC
- Output: Active - high
- Touch resistance: <4MΩ

Features:

- Output IO ports can be connected directly to the microcontroller
- Long life and continuous work
- The standard 2.54mm pin input & output connector

Applications:

- Intelligent car
- Video game controllers



RH10174

Relay sensor module

Specifications:

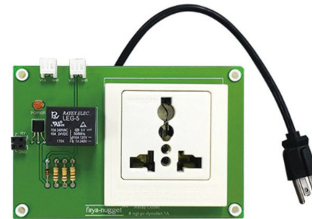
- Operating voltage: 5VDC
- Nominal current: 72mA
- Input voltage: 110 ~ 240VAC
- Resistance: 70Ω ± 10%
- Contact arrangement: 1NO1NC
- Relay input: High / low

Features:

- 10A cube relay
- Plastic material applied in high temperature and better chemical solution
- Sealed type for washing procedure

Applications:

- Home appliances (TV, fan, light ...etc.)
- Office machines
- Audio equipment
- Coffee pot
- Control units



RH10168

UV sensor module

Specifications:

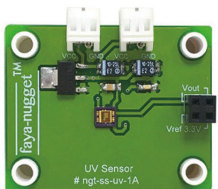
- Operating voltage: 5VDC
- Output voltage: 0.95 ~ 1.05VDC
- Operating current: 300μA
- Standby current: 0.1μA
- Response wavelength: 365nm
- Operating Temp.: -20 to +70°C

Features:

- Photodiode sensitive to UV-A and UV-B
- Embedded operational amplifier

Applications:

- UV tester
- UV index meter
- Outdoor UV monitoring equipment
- Germicidal lamp equipment
- Flame detection
- Weather station
- Bicycle navigation



RH10176

Bluetooth sensor module

Specifications:

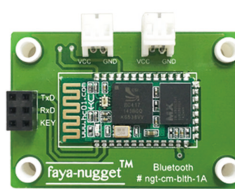
- Operating voltage: 5VDC
- Protocol: Bluetooth V2.0 + EDR
- Default baud rate: 9600 bps
- Default state: Slave mode
- RF transmit power: +4dBm
- Sensitivity: -80dBm

Features:

- Easy to use bluetooth SPP (serial port protocol) module, designed for transparent wireless serial connection setup
- Fully qualified bluetooth V2.0 + EDR (enhanced data rate) 3Mbps modulation with complete 2.4GHz radio transceiver and baseband
- PIO control
- UART interface with programmable baud rate
- With integrated antenna

Applications:

- Wireless communication
- Data logging
- Consumer applications
- Wireless robots
- Home automation



RH10170

Passive infrared sensor module

Specifications:

- Operating voltage: 5VDC
- Spectral response : 5 ~ 14μm
- Transmittance: ≥75%
- Output signal: ≥3500mV
- Output balance: <10%
- Sensitivity: ≥3300V/W
- Operating Temp.: -30°C to +70°C

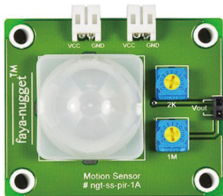
Features:

- The pyroelectric infrared sensor detects infrared radiation on the basis of the characteristics that the polarization of pyroelectric material changes with temperature.

Dual compensated sensing elements are applied to suppress the interference resulting from temperature variation with the EMI components.

Applications:

- Security system
- Burglar alarms
- Visitor acknowledgement
- Light switch control
- Intellectualized toy



RH10178

Wifi sensor module

Specifications:

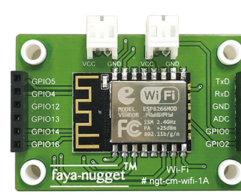
- Operating voltage: 5VDC
- Operating current: 80mA Avg.
- Protocol: 802.11 b/g/n
- Frequency range: 2.4G ~ 2.5GHz
- Default baud rate: 115,200
- Default state: Slave mode
- Operating Temp.: -40°C to +125°C

Features:

- Defragmentation
- 2 x virtual Wi-Fi interface
- Automatic beacon monitoring (hardware TSF)
- Support infrastructure BSS station / softAP / promiscuous mode
- Antenna diversity

Applications:

- Home appliances & automation
- Smart plugs and lights
- Industrial wireless control
- IP cameras
- Sensor networks
- Wi-Fi location-aware devices
- Security ID tags
- Wi-Fi position system beacons



RH10172

Stepper motor sensor module

Specifications:

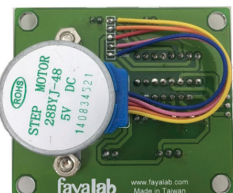
- Operating voltage: 5VDC
- Number of phase: 4
- DC resistance: 50Ω ± 7%
- Stride angle: 5.625°/64
- Pull-in torque: 300 gf-cm
- Insulated electricity power: 600VAC/1mA/1s

Features:

- ULN2003 stepper motor driver board
- High-quality stepper motor with gear reduction, low noise, smooth operation
- 5V can be driven to facilitate the use of SCM developers
- The standard interface can also be used to drive other stepper motors through this board

Applications:

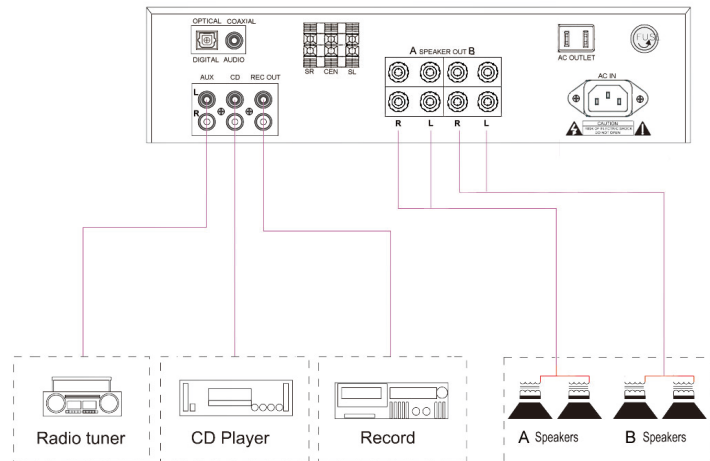
- 51 / AVR / ARM and other platforms
- Necessary part for robot design and development



For **SB52301**

Features:

- Professional sound construct and home stereo combined got this design.
- Balanced and unbalanced inputs structured.
- Both phone jack for microphone inputs.
- Optical and coaxial jack for digital audio inputs.
- RCA jack inputs for CD player, tuner, recorder, and line in keeps for some other audio sources.
- Built-in bluetooth for wireless audio streaming
- These models include four pair speaker binding posts to permit connection of a high / low impedance speakers.
- A and B speaker selector options

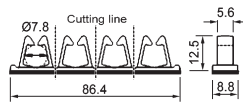
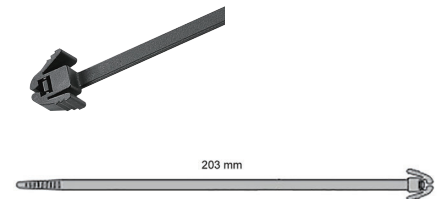
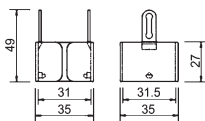
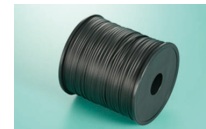
**SB52301**

250W Mixing amplifier W/USB & SD card port

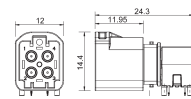
- LED display
- Separate bass and treble tone control
- 4channels output - A and B speaker selector options
- MP3 player, Bluetooth, ECHO
- AC



Power output	250W + 250W(Max.)
Inputs	Mic.x2, Audio.x2, Optical/Coaxial.x1
Microphones	1k Ω / 25mV
Music sources	CD / 47K Ω / 200mV, TUNER / 47K Ω / 200mV Bluetooth, MP3, REC. out
Frequency response	20Hz to 20000Hz (+3dB/-3dB)
Signal to noise ratio	75dB / all channels off
Distortion	less than 0.7% at rated power
Power sources	AC / 110V / 220V switchable 50 / 60 Hz
Power consumption	350W
Dimensions(WxDxH)	280 x 250 x 90 mm
Weight	3.9kgs

SG57185Multiple wire clip (20 pcs/bag)
Max. bundle Dia. 7.8mmBreak into pieces needed
along the cutting line**SG5737**Releasable cable tie
(100 pcs/bag)**SG57275**Modular cable holder (15pcs/box)
Color : black white brown
yellow blue silver**SG57385**Twist tie (400M/1reel)
Color : black white**SG57305**Two way cable tie
(100 pcs/bag)
Special design allows tie
to insert from either side
of the head to lock.

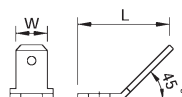
Both sides insertable



200mm

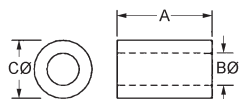


Male faston terminals



Item No.	W x T x L	Pcs/bag
SG57857	4.75 x 0.5 x 15.5	1000
SG57858	6.35 x 0.8 x 17.5	1000

Round spacer support (1000 pcs/bag)

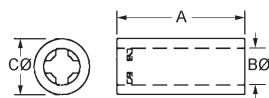


Unit:mm

Item No.	A	B	C
SG57000A	1.6	0.7	2.0
SG57000B	2.1	2.1	2.4
SG57000C	2.3	2.73	4.3
SG57000D	2.5	3.2	4.2
SG57000E	3.0	3.2	5.8
SG57000F	4.45	3.2	6.4

Item No.	A	B	C
SG57000G	6.4	3.2	6.4
SG57000H	10.0	3.73	6.35
SG57000J	10.5	4.3	5.8
SG57000K	11.0	4.5	7.0
SG57000L	11.5	4.9	7.94
SG57000M	12.7	5.1	9.5

Round spacer support (2000 pcs/bag)

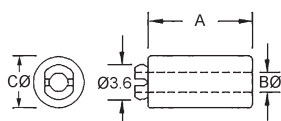


Unit:mm

Item No.	A	B	C
SG57001A	3.0	3.6	5.5
SG57001B	3.5	3.6	5.5
SG57001C	4.0	3.6	5.5
SG57001D	5.0	3.6	5.5
SG57001E	10.0	3.6	5.5

Item No.	A	B	C
SG57001F	5.0	4.7	7.0
SG57001G	10.0	4.7	7.0
SG57001H	14.0	4.7	7.0
SG57001J	20.0	4.7	7.0
SG57001K	30.0	4.7	7.0

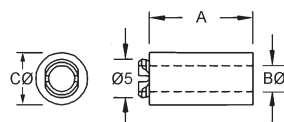
Round spacer support (1000 pcs/bag)



Unit:mm

Item No.	A	B	C
SG57002	13.0	2.1	5.6

Round spacer support (1000 pcs/bag)

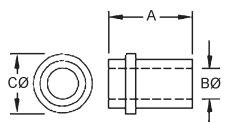


Unit:mm

Item No.	A	B	C
SG57003A	2.5	3.5	7.0
SG57003B	3.0	3.5	7.0
SG57003C	4.0	3.5	7.0
SG57003D	5.0	3.5	7.0
SG57003E	6.0	3.5	7.0

Item No.	A	B	C
SG57003F	7.0	3.5	7.0
SG57003G	8.0	3.5	7.0
SG57003H	9.0	3.5	7.0
SG57003J	10.0	3.5	7.0
SG57003K	22.0	3.5	7.0

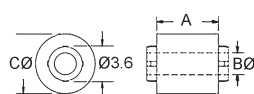
Round spacer support (1000 pcs/bag)



Unit:mm

Item No.	A	B	C
SG57004	12.7	4.8	9.0

Round spacer support (1000 pcs/bag)

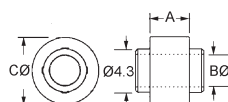


MOUNTING HOLE Ø3.5

Unit:mm

Item No.	A	B	C
SG57005	6.2	2.2	6.0

Round spacer support (1000 pcs/bag)

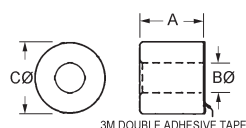


MOUNTING HOLE Ø4.5

Unit:mm

Item No.	A	B	C
SG57006A	2.7	4.3	6.6
SG57006B	2.9	4.3	6.6
SG57006C	3.85	4.3	6.6

Round spacer with adhesive tape (1000 pcs/bag)



3M DOUBLE ADHESIVE TAPE

Unit:mm

Item No.	A	B	C
SG57007	13.0	6.1	14.7

Non-insulated ring terminals (tin plated)



Item No.		D	L	Pcs/bag	Wire range
BUTTED SEAM	BRAZED SEAM				
SG57900	SG57900B	3.2	12.5	1000	22 - 16 AWG 0.5 - 1.5 mm ²
SG57903	SG57903B	4.3	15.8	1000	
SG57904	SG57904B	5.3	15.8	1000	
SG57908	SG57908B	4.3	16.5	1000	16 - 14 AWG 1.5 - 2.5 mm ²
SG57909	SG57909B	5.3	16.5	1000	
SG57910	SG57910B	6.4	21.8	1000	
SG57911	SG57911B	8.4	21.8	1000	
SG57913	SG57913B	4.3	19.0	1000	12 - 10 AWG 4.0 - 6.0 mm ²
SG57914	SG57914B	5.3	19.0	1000	
SG57915	SG57915B	6.4	22.5	1000	
SG57916	SG57916B	8.4	26.8	1000	
SG57917	SG57917B	10.5	26.8	1000	

Non-insulated spade terminals (tin plated)



Item No.		D	L	Pcs/bag	Wire range
BUTTED SEAM	BRAZED SEAM				
SG57921	SG57921B	3.7	16.0	1000	22 - 16 AWG 0.5 - 1.5 mm ²
SG57922	SG57922B	4.3	16.0	1000	
SG57925	SG57925B	5.3	16.0	1000	
SG57927	SG57927B	3.7	16.0	1000	16 - 14 AWG 1.5 - 2.5 mm ²
SG57928	SG57928B	4.3	16.0	1000	
SG57931	SG57931B	5.3	16.0	1000	
SG57932	SG57932B	6.4	16.0	1000	
SG57933	SG57933B	4.3	18.3	1000	12 - 10 AWG 4.0 - 6.0 mm ²
SG57934	SG57934B	5.3	18.3	1000	

Non-insulated hook terminals (tin plated)



Item No.		D	L	Pcs/bag	Wire range
BUTTED SEAM	BRAZED SEAM				
SG57941	SG57941B	3.7	15.8	1000	22 - 16 AWG
SG57942	SG57942B	5.3	16.8	1000	16 - 14 AWG
SG57943	SG57943B	6.4	22.5	1000	12 - 10 AWG

Non-insulated male disconnects (tin plated)



Item No.	D	L	Pcs/bag	Wire range
SG57951	6.4	16.4	1000	22 - 16 AWG
SG57952	6.3	16.4	1000	16 - 14 AWG
SG57953	6.4	17.0	1000	12 - 10 AWG

Non-insulated female disconnects (tin plated)



Item No.	D	L	Pcs/bag	Wire range
SG57956	3.2	13.6	1000	22 - 16 AWG
SG57957	5.0	13.8	1000	16 - 14 AWG
SG57958	6.6	16.3	1000	12 - 10 AWG

Non-insulated butt connectors (tin plated)



Item No.	D	L	Pcs/bag	Wire range
SG57961	3.3	15.0	1000	22 - 16 AWG
SG57962	3.9	15.0	1000	16 - 14 AWG
SG57963	5.4	15.0	1000	12 - 10 AWG

Non-insulated pin terminals (tin plated)



Item No.		D	F	L	Pcs/bag	Wire range
BUTTED SEAM	BRAZED SEAM					
SG57971	SG57971B	3.3	12	16.8	1000	22 - 16 AWG
SG57972	SG57972B	3.9	12	16.8	1000	16 - 14 AWG
SG57973	SG57973B	5.4	14	20.0	1000	12 - 10 AWG

Non-insulated blade terminals (tin plated)



Item No.		D	F	L	Pcs/bag	Wire range
BUTTED SEAM	BRAZED SEAM					
SG57981	SG57981B	3.0	13	17.8	1000	22 - 16 AWG
SG57982	SG57982B	3.0	13	17.8	1000	16 - 14 AWG
SG57983	SG57983B	4.0	14	20.0	1000	12 - 10 AWG

SM72700A /B /C /D

DC blower

50 x 50 x 15 mm

A:12V 3200RPM 2.6CFM

B:12V 4200RPM 3.5CFM

C:12V 5200RPM 4.5CFM

D:12V 6200RPM 5.4CFM

© Plastic UL 94V0

© 2 Ball bearing


SM72800A /B

EC cooling fan (energy-saving)

60 x 60 x 25 mm

4100/4200RPM

17.5/18.0CFM

A:100-120VAC 50/60Hz

B:200-240VAC 50/60Hz

© Plastic UL 94V0

© VAPO bearing


SM72702A /B /C

DC blower

60 x 60 x 15 mm

A:12V 3600RPM 5.1CFM

B:12V 4000RPM 5.7CFM

C:12V 4500RPM 6.2CFM

© Plastic UL 94V0

© VAPO bearing


SM72802A /B

EC cooling fan (energy-saving)

70 x 70 x 25 mm

3500/3600RPM

28.0/29.0CFM

A:100-120VAC 50/60Hz

B:200-240VAC 50/60Hz

© Plastic UL 94V0

© VAPO bearing


SM72704A /B /C

DC blower

75 x 75 x 30 mm

A:12V 2400RPM 10.8CFM

B:12V 3000RPM 13.8CFM

C:12V 3400RPM 15.5CFM

© Plastic UL 94V0

© 2 Ball bearing


SM72804A /B

EC cooling fan (energy-saving)

80 x 80 x 25 mm

3100/3200RPM

40.0/41.0CFM

A:100-120VAC 50/60Hz

B:200-240VAC 50/60Hz

© Plastic UL 94V0

© VAPO bearing


SM72706A /B /C

DC blower

97 x 94 x 33 mm

A:12V 2700RPM 22.4CFM

B:12V 3200RPM 26.6CFM

C:12V 3600RPM 30.5CFM

© Plastic UL 94V0

© 2 Ball bearing


SM72806A /B

EC cooling fan (energy-saving)

92 x 92 x 25 mm

2800/2900RPM

52.0/54.0CFM

A:100-120VAC 50/60Hz

B:200-240VAC 50/60Hz

© Plastic UL 94V0

© VAPO bearing


SM72708A /B

DC blower

120 x 120 x 32 mm

A:12V 2100RPM 31.4CFM

B:12V 2500RPM 35.9CFM

© Plastic UL 94V0

© 2 Ball bearing


SM72808A /B

EC cooling fan (energy-saving)

120 x 120 x 38 mm

A:100-120VAC 3600RPM 109CFM

B:200-240VAC 3100RPM 90.1CFM

© Plastic UL 94V0

© 2 Ball bearing


SM7245A /B /D /E /F
SM7247A /B /C /D /F

AC cooling fan power cord (free end)

A: 300 mm

B: 600 mm

C: 900 mm

D:1000 mm

E:1200 mm

F:2000 mm

SM7245

SM7247



SN7358A /C

Hotfix rhinestone applicator 5W
With six applicator tips 2 3 4 5 6 7mm
A:110V
C:220V

**SN7359**

Battery powered soldering iron
4.5V 6W (3 x AA batteries)

**SN7383**

Mini battery hot melt glue gun (7~7.5Ø)
including 3 glue sticks
6V (4 x AA batteries)



SN738755

Wrist strap tester



Features

- The wrist strap tester is a complete personal ground test system that can verify if the connection is working well when the strap is used. The tester verifies a continuous path between the operators, wrist strap and grounding cord.
- Yellow LED with an audible alarm indicate failed connections (HI Fail). Red LED and an audible alarm indicate low resistance or failed resistor (LO Fail). Green LED indicates properly grounded (OK).

Specification

- Test voltage : 9V
- Accuracy : $\pm 5\%$
- Operation Temp. : $10^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- Storage Temp. : $-15^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Dimension : 90 x 70 x 28 mm
- Weight : 145g

SN738760

AC fan ionizer



Features

- Low noise, small and compact light weight
- Suitable for small working area
- Stable static neutralization performance
- High Ion density, rapid static neutralization
- With Ion and high voltage abnormality indicator lights
- Built-in high frequency transformer
- Bench stand or optional pedestal mount with 360° adjustability

Specification

- Input voltage : 110~220VAC
- Ion generation : High frequency corona discharge (around 68KHz)
- Power : 4W
- Ion balance : $\pm 35\text{V}$ (measured 10cm in front of unit)
- Air flow : $0.3\text{m}^3/\text{min}$
- Effective area : 200 x 400 mm
- Dimension : 65 x 30 x 80 mm
- Weight : 200g

SN738757

Electronic Field meter



Features

- This electrostatic field meter is a special meter for testing the static and can test the ion balance.
- It can test the static quickly and effectively with untouched sensor, such as plastic, chemical fiber, pelage and the static of the body and so on.

Specification

- Display : LCD
- Power supply : 9V
- Testing range : Low $0 \sim \pm 1.5\text{KV}$ / High $1 \sim \pm 22.00\text{KV}$ (Auto-switch between low&high)
- Ion balance testing range : $0 \sim \pm 220\text{V}$
- Measure distance : 25 mm (± 0.5 mm)
- Accuracy : $\pm 10\%$
- Waiting current : $< 3 \text{ Ua}$
- Working current : $< 15 \text{ mA}$
- Environment : $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$, humidity $< 80\%$
- Surface case : ESD safe
- Dimension : 125 x 70 x 25 mm
- Weight : 200g

SN738762

AC fan ionizer



Features

- With flow adjustment function
- Stable static neutralization performance
- High Ion density, rapid static neutralization
- With Ion and high voltage abnormality indicator lights
- Rapid static neutralization
- Built-in high frequency transformer

Specification

- Input voltage : 110~220VAC
- Ion generation : High frequency corona discharge (around 68KHz)
- Power : 6W
- Ion balance : $\pm 35\text{V}$ (measured 15cm in front of unit)
- Air flow : $1.6\text{m}^3/\text{min}$
- Effective area : 300 x 600 mm
- Dimension : 104 x 50 x 140 mm
- Weight : 620g

SN738764

AC fan ionizer



Features

- Rapidly neutralizes static charges
- Ion balance adjustable
- Covers an extended area with ionized air
- Variable speed fan with wide range of air flow
- Low wattage heater for operator comfort
- Built-in ion emitter cleaner
- Bench stand or optional pedestal mount with 360° adjustability
- Durable, electrically grounded steel enclosure

Specification

- Input voltage : 110~220VAC
- Ion generation : High frequency corona discharge (around 68KHz)
- Power : 20W
- Ion balance : $\pm 10\text{V}$ (measured 30cm in front of unit)
- Air flow : $2.4\text{m}^3/\text{min}$
- Effective area : 400 x 1500 mm
- Dimension : 140 x 84 x 220 mm
- Weight : 2600g

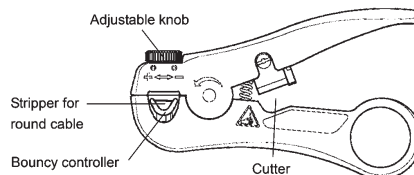
3.7" Rotary coax cable stripper
No replacement cassettes needed
SP76020 ~ SP76022

2 blades model



SP76020	RG59 RG 6 RG 7 RG11	Braid folding down For coax. Cable stripper
SP76021	18AWG 24AWG	
SP76022	RG59 RG 6	

4.4" Stripping tool
SP7606



Function :

1. Strips UTP/STP wire and multi conductor cable dimension from 3.5mm - 9mm Max.
2. Uses adjustable knob for setting different insulation diameters.
3. A bouncy controller equipped to avoid scoring inner cable when stripping.
4. Provides with cable cutting function.

SP76235

8.3" Modular crimping tool W/cuts
To crimp and trim the extended wires in one time
For 8P8C/RJ-45, 6P6C/RJ-12, 6P4C/RJ-11



SP76511

6.3" Compression connector crimping tool
For F, Mini F, BNC, RCA connector



SP76236

8.95" Modular crimping tool
For 8P8C/RJ-45 (23 - 26AWG)
For X980896S



SP76512

6.8" Compression connector crimping tool
For F, BNC, RCA connector



SP76238

7" Modular crimping tool
For 8P8C/RJ-45 toolless plug
For X981126, X981128



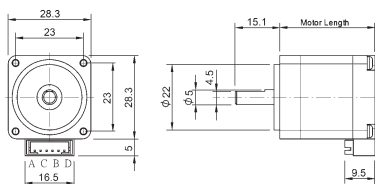
SP76239

5.6" Modular crimping tool
To crimp and trim the extended wires in one time
For 8P8C/RJ-45
W/strips & cuts



Application:

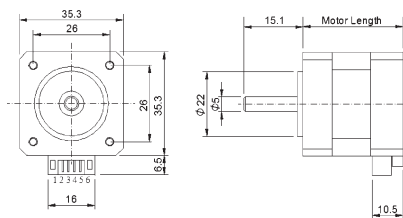
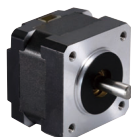
- Industrial control
- Industrial Equipment
- Computer & Peripherals



Item No.	Step angle Deg.	Rated voltage V	Holding torque mN.m	Rated current A	Winding resistance Ω	Inductance mH	Motor Length mm
SQ79211A	1.8	2~36	60	0.67	5.6	3.4	32.0
SQ79211B			95		6.8	4.9	44.5
SQ79211C			120		9.2	7.2	51.5

Application:

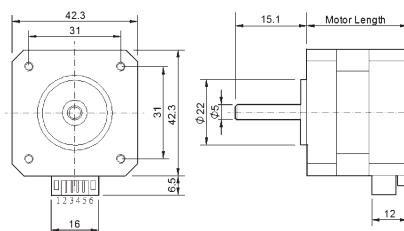
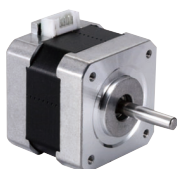
- Industrial control
- Industrial Equipment
- Computer & Peripherals



Item No.	Step angle Deg.	Rated voltage V	Holding torque mN.m	Rated current A	Winding resistance Ω	Inductance mH	Motor Length mm
SQ79213A	1.8	2~36	100	0.40	20	20	26
			100	0.75	4.3	4.0	
SQ79213B	1.8	2~36	150	0.40	24	38	34
			150	0.75	5.8	9.5	
SQ79213C	1.8	2~36	200	0.50	18	25.5	40
			200	1.20	2.5	3.8	

Application:

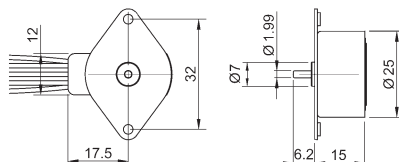
- Industrial control
- Industrial Equipment
- Computer & Peripherals



Item No.	Step angle Deg.	Rated voltage V	Holding torque mN.m	Rated current A	Winding resistance Ω	Inductance mH	Motor Length mm
SQ79215A	1.8	2~36	200	0.7	12	15	26
SQ79215B	1.8	2~36	260	0.4	30	37	34
			280	0.6	22	28	
SQ79215C	1.8	2~36	400	0.5	25	50	40
			400	1.0	4.5	10	

Application:

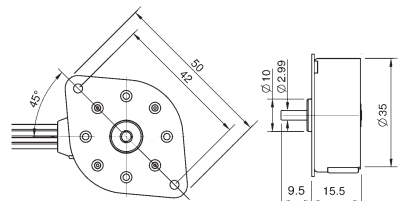
- Surveillance Camera
- Scanner
- Printer



Item No.	Step angle Deg.	Rated voltage V	Holding torque g-cm	Rated current mA	Resistance per phase Ω	Excitation Bipolar	Number of phase phase
SQ79231A	7.5	24	240	350	10	2-2	4
SQ79231B	7.5	34	270	300	15.3	1-2	4

Application:

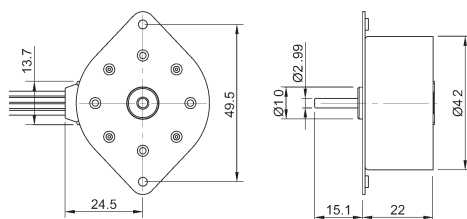
- Surveillance Camera
- Scanner
- Printer



Item No.	Step angle Deg.	Rated voltage V	Holding torque g-cm	Rated current mA	Resistance per phase Ω	Excitation Bipolar	Number of phase phase
SQ79233A	3.75	24	240	390	10.9	2-2	2
SQ79233B	7.5	24	700	600	12.4	2-2	4

Application:

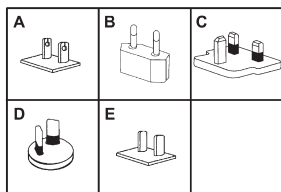
- Surveillance Camera
- Scanner
- Printer



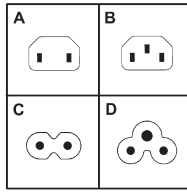
Item No.	Step angle Deg.	Rated voltage V	Holding torque g-cm	Rated current mA	Resistance per phase Ω	Excitation Bipolar	Number of phase phase
SQ79235A	7.5	24	610	500	2.1	2-2	4
SQ79235B	7.5	24	1150	700	7.0	1-2	4

Medical power supply
SQ8070 x x (SQ8070~SQ8079)
 Output voltage
 AC input
 Item No.

AC input (SQ8070~SQ8075)

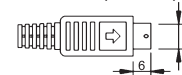


AC input (SQ8076~SQ8079)

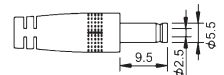


DC output (SQ8077)

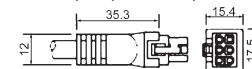
12V&15V (4P DIN)



18V~48V



DC output (SQ8079)



Medical power supply 6W
SQ8070 x x (W/DC plug 2.1 x 5.5mm)
SQ8071 x x (W/DC plug 2.5 x 5.5mm)
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	0.19A~0.1A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	A: 68g B: 80g
Dimensions (mm)	A: 56 x 28 x 59 B: 56 x 28 x 59

Output voltage :

Model	Output V	Output A
A	5.0V	1.2A
B	6.0V	1.0A
C	7.5V	1.0A
D	9.0V	0.7A
E	12.0V	0.5A



Medical power supply 12W
SQ8072 x x (W/DC plug 2.1 x 5.5mm)
SQ8073 x x (W/DC plug 2.5 x 5.5mm)
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	0.32A~0.19A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	A,E: 140g B: 145g C: 148g D: 144g
Dimensions (mm)	A,E: 80.2 x 46 x 57.5 B: 80.2 x 46 x 68.7 C: 80.2 x 49.6 x 62.7 D: 80.2 x 56 x 57.5

Output voltage :

Model	Output V	Output A
A	3.3V	2.00A
B	5.0V	2.00A
C	5.0V	3.00A
D	5.9V	2.00A
E	6.2V	2.00A
F	9.0V	1.20A
G	12.0V	1.00A
H	15.0V	0.80A
J	18.0V	0.67A
K	24.0V	0.50A



Medical power supply 20W
SQ8074 x x (W/DC plug 2.1 x 5.5mm)
SQ8075 x x (W/DC plug 2.5 x 5.5mm)
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	0.45A~0.3A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	A: 148g B: 143g C: 158g
Dimensions (mm)	A: 72x34x69 B: 72x34x90 C: 72x50x81

Output voltage :

Model	Output V	Output A
A	5.0V	3.50A
B	5.9V	3.00A
C	9.0V	2.22A
D	12.0V	1.67A
E	15.0V	1.33A
F	18.0V	1.11A
G	24.0V	0.83A
H	48.0V	0.42A



Medical power supply 90W
SQ8076 x x (W/DC plug 2.5 x 5.5mm)
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	1.2A~0.5A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	460g
Dimensions (mm)	A&B: 160x64x35 C&D: 151x64x35

Output voltage :

Model	Output V	Output A
A	12.0V	7.00A
B	15.0V	6.00A
C	18.0V	5.00A
D	19.0V	4.74A
E	24.0V	3.75A
F	48.0V	1.88A



Medical power supply 120W
SQ8077 x x
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	1.5A~0.7A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	A~D: 590g
Dimensions (mm)	A~D: 168 x 66 x 39

Output voltage :

Model	Output V	Output A
A	12.0V	9.00A
B	15.0V	8.00A
C	18.0V	6.67A
D	19.0V	6.32A
E	20.0V	6.00A
F	24.0V	5.00A
G	48.0V	2.50A



Medical power supply 250W
SQ8079 x x
 Output voltage
 AC input
 Item No.



Specification :

Input voltage	100~240VAC
Input frequency	50~60Hz
Input current	3.3A~1.3A
Dielectric withstand	4000VAC primary - secondary
EMC standard	IEC60601-1-2 : 2014 (edition 4.0) EN55011, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11
Weight (Ref.)	A&D: 1145g
Dimensions (mm)	A&D: 204 x 94 x 43.5

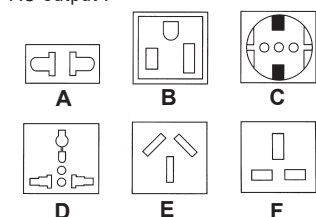
Output voltage :

Model	Output V	Output A
A	12.0V	20.00A
B	15.0V	16.66A
C	19.0V	13.15A
D	24.0V	10.40A
E	48.0V	5.21A



SQ81165 x (SQ81165 ~ SQ81175)

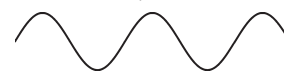
AC output
Item No.


Protections :

Output short (by fuse)
Battery low shutdown
Battery polarity reverse (by fuse)
Over load
Over temperature



Pure sine-wave (SQ81165~SQ81175) :


SQ81165A /B /C /D /E /F
1500W 12V DC to AC inverter
W/Bluetooth & 2 x USB QC3.0

Specification :

Item No.	SQ81165	SQ81175
Output power	1500W(conti.) 3000W(surge)	2500W(conti.) 5000W(surge)
Input voltage	DC 10V~15V	
Output voltage (Adjustable by APP)	EU : AC 220V, 230V, 240V USA : AC 110V, 120V, 127V	
Efficiency	>85%	
Size (LxWxH)	430x227x88mm	360x200x157mm
Weight	5.3kgs	7.5kgs
Output socket	European	two sockets
	USA	two sockets

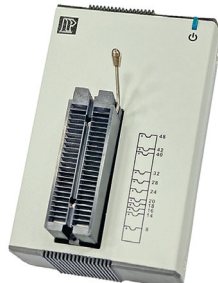
SQ81175A /B /C /D /E /F
2500W 12V DC to AC inverter
W/Bluetooth & 2 x USB QC3.0

ST82202
Pocket universal programmer

- Portable mini size, without socket. You just need to connect with USB cable to use. No additional power supply.
- Provide with DUT 75MHz bandwidth and $< \pm 2.5\text{nS}$ signal skew. In addition to the high processing speed, you can verify whether the ICs processing frequency meets the specifications.
- Via USB HUB, you can connect multiple LEAPER-56s to do gang programming. It makes development and mass production proficient.
- Provide with DUT device pin checking and memory components ID verification. Ensure the best yield rate of processing.
- Dimension : 136 x 90 x 20 mm
- Weight : 0.4 kgs

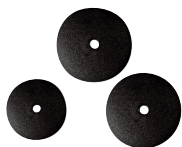
Support devices

- NOR FLASH, SPI, EPROMs, EEPROMs, MPU, MCU, CPLD, NV RAMs


ST83993
PM2.5 indoor air quality monitor

- Battery: rechargeable lithium battery of 3.7V 18650 2600mA/h (using primary cell made in Japanese/Korean lithium battery), with the value 1A/5V for charging and using
- Battery life: approximately 8 hours for continuous use (set as one sending per hour)
- Auto power off: Automatically shut down after 60 minutes in case of no external power input.
- Long-term use mode: Auto shut down will be disabled when connecting to an external power input
- Operation temperature and humidity: 5 to 40°C, $< 80\%RH$ (no condensation)
- Storage temperature and humidity: -5 to 40°C, $< 70\%RH$ (no condensation)
- Dimension: 84x81x55 mm (LxWxH)



ST80002A /B
 13.56MHz RFID token tag


Code	A	B
Size	20Ø	30Ø
Thickness	3.0mm	3.3mm
Read range	3cm Min.	5cm Min.
Hole size	3Ø	
Color	black	
Material	ABS	
Protection degree	IP68	
Operating Temp.	-20°C ~ +60°C	
Storage Temp.	0°C ~ 30°C	
ISO standard	ISO 14443A, ISO 15693	
Weight	2.45g	3.0g

ST80030 125KHz RFID clamshell card
ST80035 13.56MHz RFID clamshell card


Item No.	ST80030	ST80035
Read range	up to 15cm	up to 6cm
Color	white	
Material	PVC + ABS	PVC
Operating Temp.	-20°C ~ +55°C	
Storage Temp.	20°C ~ +55°C	
ISO standard	ISO 14443A	
Size	85.6x54x1.9mm	

ST80010A /B /C 125KHz RFID proximity token tag
ST80012A /B /C 13.56MHz RFID proximity token tag


Code	A	B	C
Size	21.5Ø	30Ø	32Ø
Thickness	3.0mm	3.4mm	3.0mm
Read range	125KHz 8cm	12cm	12cm
13.56MHz	-	5cm	5cm
Color	blue, black, gray, yellow, red		
Material	ABS		
Protection degree	IP68		
Operating Temp.	-20°C ~ +65°C		
Storage Temp.	0°C ~ 30°C		
Weight	1.5g	2.8g	3.2g

ST80039
 125KHz & 13.56MHz RFID proximity card


Type	EM & Mifare S50
Color	white
Material	PVC
Protection degree	IP66
Operating Temp.	-20°C ~ +55°C
Size	85.6 x 54 x 0.8mm
Weight	5.6g

ST80015
 125KHz RFID proximity security tag


Read range	up to 15cm
Color	gray, white
Material	ABS
Protection degree	IP66
Operating Temp.	-20°C ~ +60°C
Storage Temp.	-20°C ~ +60°C
Size	Ø34.6 x 6.4mm
Weight	4.7g

ST80040 125KHz RFID wristband tag
ST80045 13.56MHz RFID wristband tag


Item No.	ST80040	ST80045
Read range	10cm	3 ~ 5cm
Color	white / black / blue / red	
Material	silicon	
Protection degree	IP66	IP68
Operating Temp.	-20°C ~ +80°C	
Storage Temp.	0°C ~ 30°C	
ISO standard	ISO 14443A	
Size	178x36.4x20mm	216x36.4x20mm
Weight	12.8g	11.9g

ST80020
 125KHz RFID keychain tag


Read range	up to 12cm
Color	blue, gray
Material	ABS
Protection degree	IP66
Operating Temp.	-40°C ~ +60°C
Storage Temp.	0°C ~ 30°C
Size	36.4 x 30.1 x 7.45mm
Weight	4.3g
Key-ring weight	8g

ST80047
 13.56MHz RFID wristband tag


Read range	3 ~ 5cm
Color	white, black, red
Material	Fabric + Velcro
Tag material	ABS + PVC
Protection degree	IP66
Operating Temp.	-20°C ~ +75°C
Storage Temp.	0°C ~ 30°C
ISO standard	ISO 14443A
Size	178 x 36.4 x 20mm
Weight	13g

ST80025
 13.56MHz RFID keychain tag


Read range	up to 5cm (depend on reader)
Color	blue, black, green, purple, red
Material	ABS
Protection degree	IP66
Operating Temp.	-40°C ~ +60°C
Storage Temp.	0°C ~ 30°C
ISO standard	ISO 14443A / ISO 15693 / NFC
Size	38.6 x 34.5 x 6.5mm
Weight	4.4g
Key-ring weight	7.4g

ST80070
 13.56MHz NFC tag


Size	21Ø
Transmission	passive
Antenna substrate	PET
Antenna material	copper
Tube material	ABS
Tube size	3 inch
Operating Temp.	-20°C ~ +80°C
Storage Temp.	0°C ~ 30°C
ISO standard	ISO 14443A

ST80027
 13.56MHz RFID keychain tag

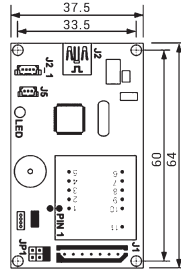

Read range	up to 5cm (depend on reader)
Color	gray
Material	ABS + PPS
Protection degree	IP66
Operating Temp.	-40°C ~ +60°C
Storage Temp.	0°C ~ 30°C
ISO standard	ISO 14443A / ISO 15693 / NFC
Size	28.0 x 44.6 x 6.24mm
Weight	4.2g
Key-ring weight	8g

ST80080
 13.56MHz NFC tag


Read range	up to 3cm (depend on reader)
Color	Customized color available
Material	PVC + Poly
Protection degree	IP68
Operating Temp.	-20°C ~ +55°C
Storage Temp.	0°C ~ 30°C
ISO standard	ISO 14443A
Size	52 x 25 x 2mm
Weight	1.2g
EEPROM memory read times / retention	about 10 million times / about 10 years
Set a password	Yes

ST80100

125KHz ASK RFID EM module
starter kit W/O antenna



Features

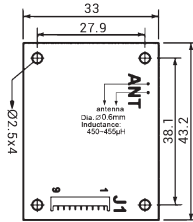
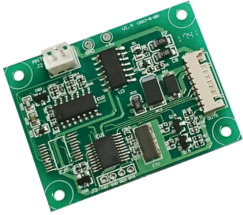
- With indicating power & status LED
- With buzzer for sound warning
- Supporting multi-cable wiring connection (7pin, 3pin, mini USB cable) convert into multi-interface output for testing
- No need to install driver (keyboard emulator)
- With 4 fixed holes around the corner

Specifications

- Power input: 5VDC
- Standby current: 37mA $\pm$ 10% @ 5VDC
- Operating current: 40mA $\pm$ 10% @ 5VDC
- Operating Temp.: -10°C to +75°C
- Storage Temp.: -20°C to +85°C
- Output format: Wiegand, ABA, RS-232, USB

ST80102

125KHz FSK RFID H.I.D. module
W/O antenna



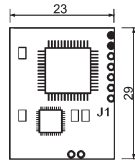
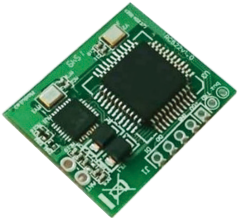
It is ultra-low power modules designed to operate from 4V to 9V. At its lower power setting it consumes just 15 μ A making these modules the perfect low power alternative to conventional readers. The modules support Wiegand 25~40 data formats and able to read H.I.D. or compatible cards and ideal for fixed and portable applications.

Specifications

- Power input: 4V ~ 9VDC
- Reading range: 30mm @ 4VDC
35mm @ 9VDC
- Standby current: 10 ~ 15 μ A
- Operating current: 21.3 ~ 23.8mA
- Operating Temp.: -30°C to +65°C
- Storage Temp.: -40°C to +85°C
- Applicable cards: H.I.D. or compatible card
- Output format: Wiegand 25~40 bits

ST80110

13.56MHz RFID Felica / Mifare
(UID) module W/O antenna



This is designed in accordance with Felica ISO 18092 (UID) & Mifare ISO 14443A (UID) standard to read the contact less smart card. It is easy to use as Mifare card reader via UART (TTL) interface communicated with PC. It is designed for low cost and high security as well as convenience and reliability.

Features

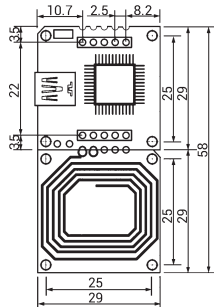
- SDK simplifies various RFID product developments
- High data integrity
- High speed data transfer

Specifications

- Power input: 5VDC
- Reading range: Depending on tag size & type, and antenna size
- Standby current: 65mA $\pm$ 10% @ 5VDC
- Operating current: 65mA $\pm$ 10% @ 5VDC
- Operating Temp.: -10°C to +70°C
- Storage Temp.: -20°C to +85°C
- Applicable cards: Mifare S50 / S70, Ultralight, Felica or compatible card
- Output format: UART (TTL)

ST80112

13.56MHz RFID Felica / Mifare
(UID) module W/antenna



Features

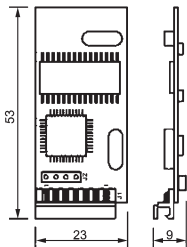
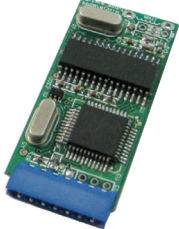
- Support Felica ISO 18092 (UID) & Mifare ISO 14443A (UID)
- Antenna can be replaced upon request
- Supply firmware modification accords to request of special function
- High speed data transfer and high integrity
- With fixed holes around the corner

Specifications

- Power input: 5VDC
- Reading range: 4cm Max. / card (t:0.8mm)
3cm Max. / tag
- Standby current: 43mA $\pm$ 10% @ 5VDC
- Operating current: 50mA $\pm$ 10% @ 5VDC
- Operating Temp.: -10°C to +75°C
- Storage Temp.: -20°C to +85°C
- Applicable cards: Mifare S50 / S70, Ultralight, Felica or compatible card
- Output format: Wiegand 26 bits, UART (TTL), USB
- Material: PCB only
- Transmission Spec.: 9,600 bps N, 8, 1

ST80114

13.56MHz RFID Mifare read & write
module W/O antenna



Features

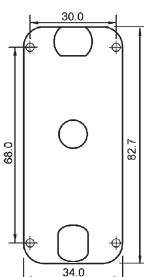
- SDK simplifies various RFID product developments
- ISO 14443A
- High speed data transfer
- High data integrity
- Anti-collision
- Manchester coding

Specifications

- Power input: 4.5V ~ 5.4VDC
- Reading range: Depending on tag size & type, and antenna size
- Operating Temp.: -10°C to +75°C
- Storage Temp.: -20°C to +85°C
- Applicable cards: Mifare S50 / S70, Ultralight or compatible card
- Output format: Wiegand 26 bits, ABA, RS232

ST80116

13.56MHz RFID Mifare access control
module W/antenna



Features

- Low cost with effective performance
- Compact size for designing in all kinds of products
- 64 legal cards can be registered thru simple learning
- Setting for access / security / open-door functions
- No any computer is need
- With dry contact (form A relay)

Specifications

- Power requirement: 6V ~ 12VDC / 80mA
- Reading range: 5 ~ 7cm
- Supported tag-ICs: Mifare S50 / S70, easy card or compatible card

Applications

- Low cost access controller
- Arm / disarm for security system
- Door access paired with intercom
- Coffe
- Any access control applications by Mifare card

ST84010

DC power supply



- 0 - 32V / 0 - 3A output
- Digitized programmable interface
- Setting resolution: 10mV/1mA
- High stability, low drift
- Over voltage / over current / over temperature protection
- Intelligent fan control (changes by output power)
- Built-in buzzer alarm
- Labview driver
- Standard interface: RS-232C
- 315 (D) x 108 (W) x 140 (H) mm

**ST84015**

Triple output DC power supply



- 0 - 30V / 0 - 3A output
- 3 Independent isolated output
- 4 LED display sets: 3 digits after decimal point
- Setting resolution: 1mV/1mA
- Digital panel control (rotary encoder switch, rubber key with indicator)
- User-friendly operation, coarse/fine volume control
- 4 Sets memory save/recall
- Key-Lock / Output on/off
- Tracking series and parallel mode
- Smart cooling fan achieving low noise
- Standard interface: USB
- PC software & USB driver
- Labview driver
- 265 (D) x 210 (W) x 130 (H) mm

**ST84011**

DC power supply



- 0 - 36V / 0 - 3A output
- CV, CC priority start function
- Setting resolution: 1mV/0.1mA
- Measurement resolution: Voltage: 0.1mV/1mV Current: 0.1μA/0.001mA/0.01mA/0.1mA
- Power output ON/OFF delay function
- Adjustable voltage and current slew rate
- Bleeder circuit control
- Delayed over-current protection (OCP Delay)
- Sequential power output function
- Remote sensing function
- Data logger
- 10 sets of memory function
- Over voltage / over current / over temperature / under voltage limit protection, AC alarm function
- Standard interface: RS-232, USB, LAN, RS485, Analog control
- 313 (D) x 107 (W) x 124 (H) mm

**ST84016**

Triple output DC power supply



- 0 - 30V / 0 - 6A output
- 4.3" TFT LCD display
- Setting resolution: 1mV/0.2mA Readback resolution: 0.1mV/0.1mA
- Low ripple noise: ≤1mVrms / ≤2mA rms
- Transient response time: ≤100μs
- Load function (CC, CV, CR mode)
- Tracking series and parallel function without additional external wiring
- Over voltage / over current / over temperature protection
- Delay / output monitoring / output recorder function
- Supports setting value, measurement value and output waveform display
- Sequential output function and built-in 8 template waveforms
- Provides 10 sets of memory for each sequence/delay/recorder/panel setting condition
- Standard interface: RS-232, USB, Ext I/O
- 362 (D) x 213 (W) x 145 (H) mm

**ST84051**

3GHz spectrum analyzer



- Frequency range: 9kHz ~ 3GHz
- Built-in preamplifier, 50dB attenuator, and sequence function
- Built-in AM/FM Demodulation & Analysis
- Built-in P1dB point, Harmonic, Channel Power, N-dB bandwidth, OCBW, ACPR, SEM, TOI, CNR, CTB, CSO, Noise Marker, Frequency Counter, Time Domain Power, Gated Sweep
- Built-in Spectrogram, Topographic and Dual-View Display Modes
- Remote control interface: LAN, USB, RS-232



Sweep time range	204us ~ 1000s
Measurement range (Preamp on)	-108dBm~+18dBm: 100kHz~1MHz, Ref. Lv. @ -60dBm -142dBm~+21dBm: 1MHz~10MHz, Ref. Lv. @ -60dBm -142dBm~+30dBm: 10MHz~3GHz, Ref. Lv. @ -60dBm (Span = 500Hz, RBW = 10Hz)
Display device	800 x 600 high resolution TFT color LCD
Power measurement	ACPR, OCBW, channel power and N-dB bandwidth
Level display modes	Trace, Topographic, Spectrogram, Single/split Windows
Trace functions	Clear & Write, Max/Min Hold, View, Blank, Average
Phase noise	<-88dBc/Hz: 10kHz <-95dBc/Hz: 100kHz <-113dBc/Hz: 1MHz Offset from carrier: Fc=1GHz; RBW=1kHz; VBW=10Hz
Interface	RF input: N female connector, 50Ω nominal SMB male: DC7V/500mA Max. USB/A plug; MicroSD socket (SD1.1) RS232: D-Sub 9pins female connector
Power source	AC 100 ~ 240V, 50/60Hz
Dimension & weight	100 (D) x 350 (W) x 210 (H) mm, 4.5kgs

ST84102 x Uninterruptible power supply 1000VA / 600W
ST84104 x Uninterruptible power supply 1500VA / 900W
ST84106 x Uninterruptible power supply 2000VA / 1200W
ST84108 x Uninterruptible power supply 3000VA / 1800W

AC output :



Features:

- Full low frequency working, no interference to your equipment
- Built-in AVR offering wider applications
- With battery start function
- With overload and short circuit protection
- Multiple audio warning functions
- Containing various LED indicating functions
- With mute switch
- Lightning surge protecting device
- Incorporated with DB9 communication interface
- With auto-restart function
- Custom long time discharge model acceptable
- With large starting current suitable for elevator of each brand

Applications:

- Personal computer
- IT equipment
- Document control
- Work station
- Audio/Video room
- Sales management system



Item No.	ST84102	ST84104	ST84106	ST84108
Capacity	1000VA / 600W	1500VA / 900W	2KVA / 1200W	3KVA / 1800W
Input voltage	110 / 115 / 120VAC or 220 / 230 / 240VAC			
Output voltage	110 / 115 / 120VAC or 220 / 230 / 240VAC ±10%			
Output waveform	Simulated sine-wave			
Output transfer time	< 4ms			
Output outlets	NEMA5-15R x 2pcs or the other type	NEMA5-15R x 6pcs or the other type		
Battery voltage	24VDC	48VDC		
Battery type	High rate 12V/5AH	12V/4AH	High rate 12V/5AH	High rate 12V/9AH
Battery quantity	2PCS	4PCS		
Back-up time (load with 1 PC)	40mins	60mins	90mins	120mins
Recharge time	8 hours to 90% after fully discharged			
Line conditioning regulation (AVR)	1 step boost / 1 step buck			
LED display	1LED:Normal(steady on) Back up(slow blinking) Battery low(fast blinking) Overload / Short / UPS Cut-off (LED off)	10LEDs: Normal (green) Back up (green) AVR on (orange) UPS cut-off (orange) Over heat (red) Battery level (5LEDs)		
Alarm	Back-up mode / Battery low	Back-up mode / Battery low / over-heat		
Auto alarm reset	No	Yes		
DC start (cold start)	Yes			
Auto restart UPS	Yes			
Output auto delay	No	Yes		
Overload / short protection	Circuit breaker (Line mode), fuse and electronic circuit (back-up mode)			
Lightning / surge protection	350J / 10000A			
Communication port (DB9)	RUPS-2000 software for windows 95 / 98 / NT / 2000 / ME / XP / Vista			
UPS for elevator	Yes			
Environment temperature	0°C ~ 40°C			
Relative humidity	0 ~ 95% non condensing			
Audible noise	< 40dBA (at 1M)			< 50dBA (at 1M)
Net weight	11.5kgs	17.6kgs	20.3kgs	UPS:14kgs Bat.Bank:14kgs
Dimension (W x D x H)	94 x 385 x 170 mm	160 x 410 x 236 mm		160 x 410 x 236 mm (2sets)

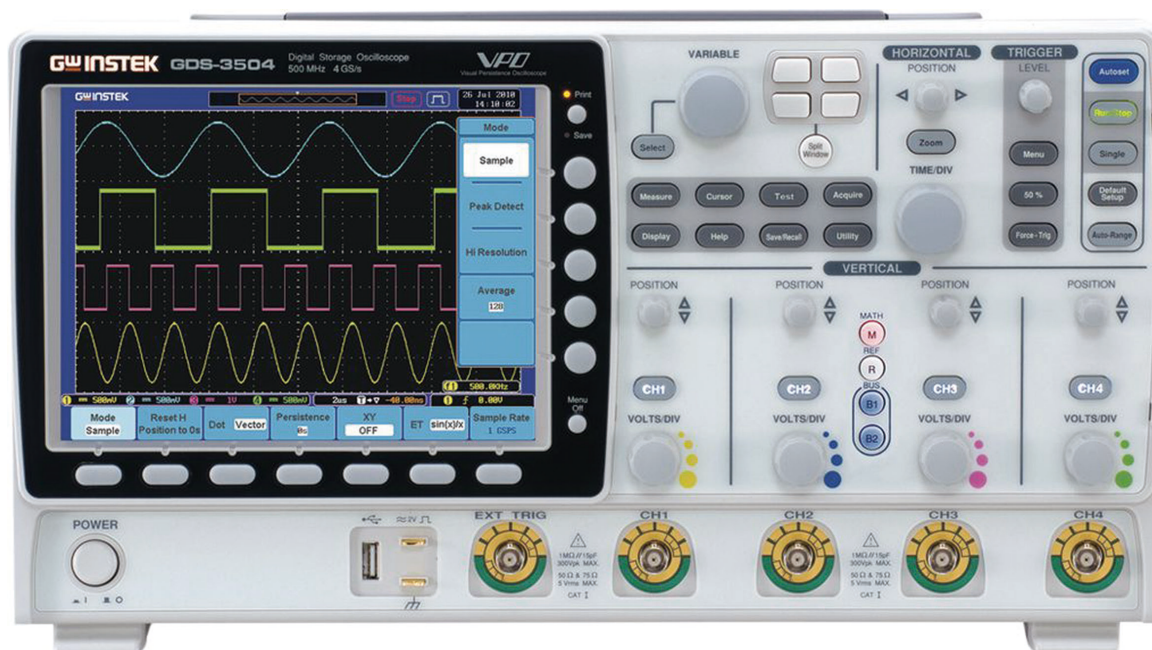
ST85350M

350MHz digital storage oscilloscope



- 350MHz, dual input channels
- Large 8-in TFT LCD SVGA color display
- USB host/device : support USB printer and USB flash drive
- Color printout

Rise time	1ns
Sensitivity	2mV/div ~ 5V/div
Input coupling	AC, DC & ground
Input impedance	1M $\pm$ 3%, ~16pF
Trigger sources	CH1, CH2, line, EXT
Trigger modes	Auto (support roll mode), normal, single sequence
Trigger coupling	AC, DC, LF rej. , HF rej. , Noise rej.
X-Y mode	X-Axis input: channel 1
	Y-Axis input: channel 2
	Phase shift : $\pm 3^\circ$ at 100kHz
Signal real-time sample rate	5GSa/s maximum
Signal equivalent sample rate	100GSa/s maximum
Signal record length	25K points/channel
TFT LCD type	8 inch
	600(vertically) x 800 (horizontally) dots (SVGA)
	8 x 10 divisions
Interface	5V maximum/10mA CMOS open collector output
	DB 9-pin male DTE RS-232 interface
	USB 2xhost/1xdevice 2.0 high speed supported
Power source	AC 100V ~ 240V, 48Hz ~ 63Hz, auto selection
Time clock	time and date, provide the date/time for saved data
Dimension & weight	130 (D) x 400 (W) x 200 (H) mm, 4kgs

**ST85500M**

500MHz digital storage oscilloscope



- 500MHz, dual input channels
- Large 8-in TFT LCD SVGA color display
- USB host/device : support USB printer and USB flash drive
- Color printout

Rise time	700ps
Sensitivity	2mV/div ~ 5V/div
Input coupling	AC, DC & ground
Input impedance	1M $\pm$ 3%, ~16pF
Trigger sources	CH1, CH2, CH3, CH4, line, EXT
Trigger modes	Auto (support roll mode), normal, single sequence
Trigger coupling	AC, DC, LF rej. , HF rej. , Noise rej.
X-Y mode	X-Axis input: channel 1, channel 3
	Y-Axis input: channel 2, channel 4
	Phase shift : $\pm 3^\circ$ at 100kHz
Signal real-time sample rate	4GSa/s maximum, 2GSa/s per channel
Signal equivalent sample rate	100GSa/s maximum
Signal record length	25K points/channel
TFT LCD type	8 inch
	600(vertically) x 800 (horizontally) dots (SVGA)
	8 x 10 divisions
Interface	5V maximum/10mA CMOS open collector output
	DB 9-pin male DTE RS-232 interface
	USB 2xhost/1xdevice 2.0 high speed supported
Power source	AC 100V ~ 240V, 48Hz ~ 63Hz, auto selection
Time clock	time and date, provide the date/time for saved data
Dimension & weight	130 (D) x 400 (W) x 200 (H) mm, 4kgs

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ELECTRONICS
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