



SHALLIN

NEW ITEMS

SHALLIN

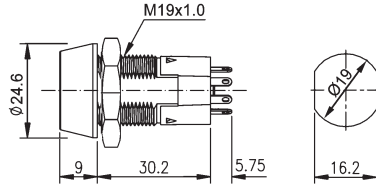
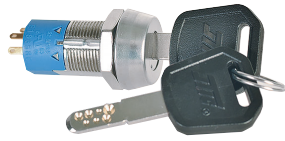
SENSORS
AUTOMOTIVE CONNECTORS
AC CHARGING CONNECTORS



SINCE 1977

B09451 - B09454

Keylock switch
125V 4A (250V 2A)



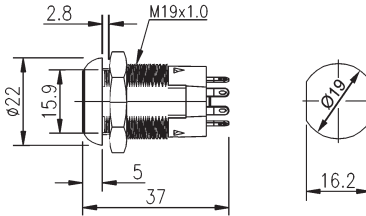
Zinc alloy die cast housing

Item#	Terminals	Key pulls	Turn	on on
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 - B09466

Keylock switch
125V 4A (250V 2A)



Zinc alloy die cast housing

Item#	Terminals	Key pulls	Turn	on on
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

B09960

Fingerprint identification
cabinet lock



20 Groups of Fingerprints



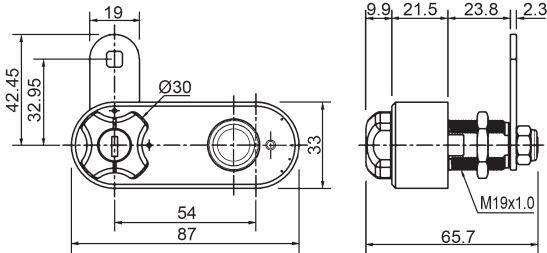
USB Rechargeable



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:

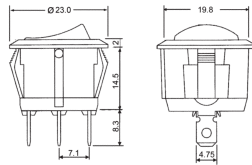
1. At unlock position and press the fingerprint lock panel, when blue light is on then hold until the blue light is always on and with long beep 1 time, then remove.
2. The purple light flashes, start fingerprint entry.
3. Press the fingerprint lock panel until the blue light is on and beep 1 time, then 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.

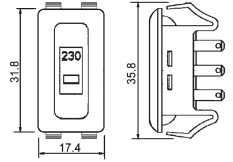
B10162

3P rocker switch
(SPDT) on-off-on
125V 16A (250V 10A)



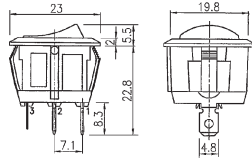
B140535

Power select switch
125V 22A (250V 11A)



B10163

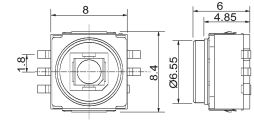
4P rocker switch W/LED
(SPST) on-off
125V 16A (250V 10A)



B173847

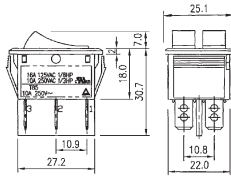
Illuminated tact switch
32V 0.05A

LED color:
A: red B: yellow
C: green D: blue
E: white F: amber



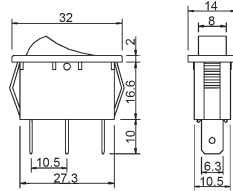
B1033

6P rocker switch
(DPDT) on-on
125V 16A (250V 10A)



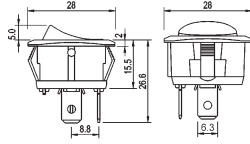
B1204

3P illuminated rocker switch
(SPST) on-off
125V 15A (250V 7.5A)



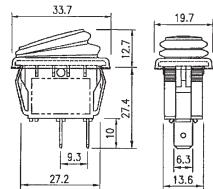
B12925

3P illuminated rocker switch
(SPST) on-off
125V 16A (250V 10A)



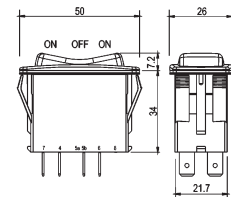
B1319

2P waterproof rocker switch
(SPST) on-off
125V 20A (250V 16A)
can reach to IP65

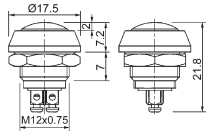


B13285

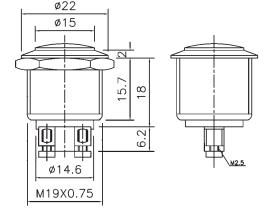
6P waterproof illuminated rocker switch (DPDT) on-off-on
125V 16A (250V 16A)
can reach to IP67



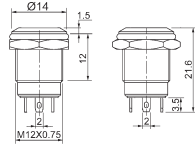
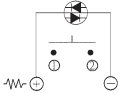
B169HA
2P metal pushbutton switch
36V 2A (SPST) off-(on)
can reach to IP65



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

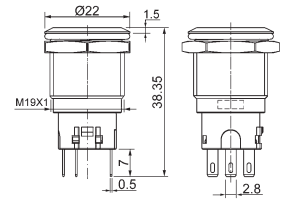


B169HD
2P illuminated metal pushbutton switch W/LED
36V 2A (SPST) off-(on)
can reach to IP65



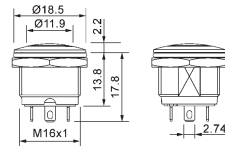
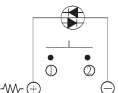
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

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



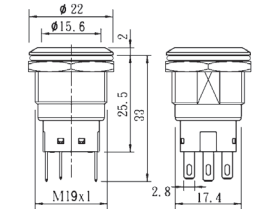
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

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



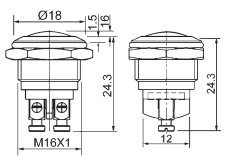
LED volt:6V/12V/24V
LED color:red yellow green
blue white

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

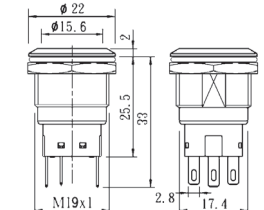


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

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

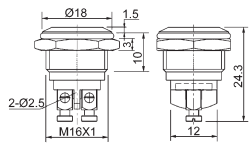


B169TE (B169TB)
3P illuminated metal pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP67

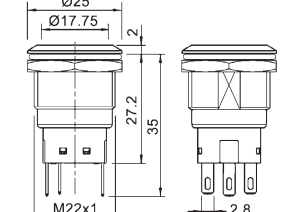


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

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

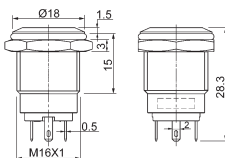
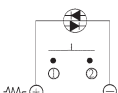


B169WD (B169WA)
3P illuminated metal pushbutton switch W/LED
250V 5A (SPDT) on-(on)
can reach to IP67



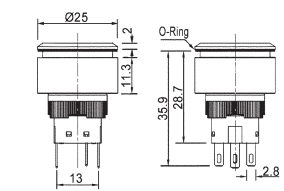
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

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



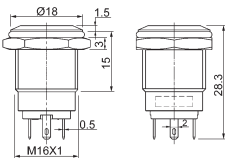
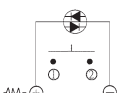
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

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



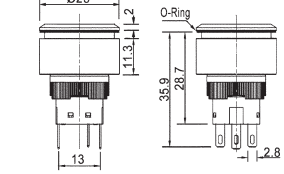
LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white

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

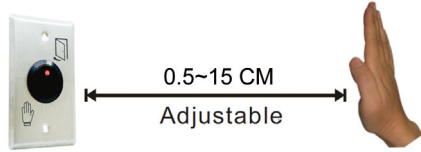


LED volt:6V/12V/24V/220V
LED color:red yellow green
blue white orange

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

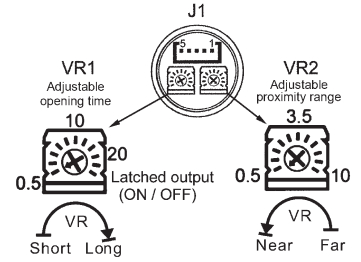


Pin assignment

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.)

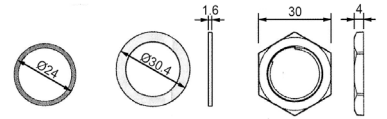
VR2—Adjustable proximity range. (Unit: cm)	
	Adjustable proximity range: 3~15cm (Default: 15 cm)
	Adjustable proximity range: 0.5~10cm (Default: 0.5 cm)



Accessories

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

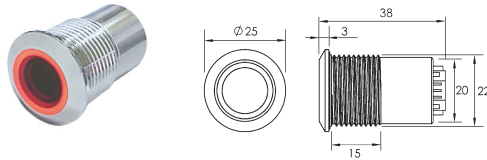
B169ZG~B169ZL :
With screwx2, 5P wire (15cm)



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 / Mecianical (min.)	100,000 / 50,000,000 (B169ZA/B/G/H) 100,000 / 10,000,000 (B169ZC/D/K/L)	

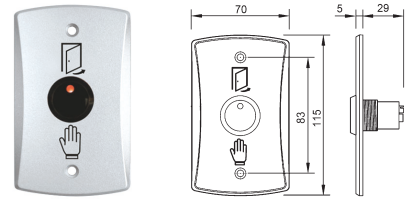
B169ZA1 / A2
Waterproof touchless infrared sensor switch
24VDC 33mA
Shell : Brass

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



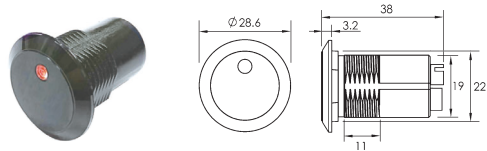
B169ZG
Waterproof touchless infrared sensor switch
W/US type panel
24VDC 26mA
24VAC 51mA
Panel : Zinc-alloy

Proximity range:
3~15cm



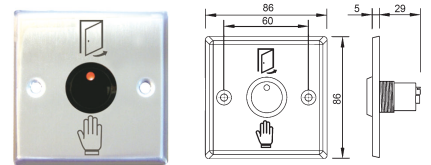
B169ZB1 / B2
Waterproof touchless infrared sensor switch
24VDC 26mA
24VAC 51mA
Shell : PC

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



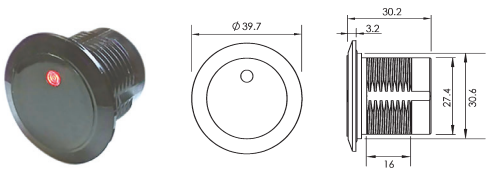
B169ZH
Waterproof touchless infrared sensor switch
W/Euro. type panel
24VDC 28mA
Panel : Stainless steel

Proximity range:
3~15cm



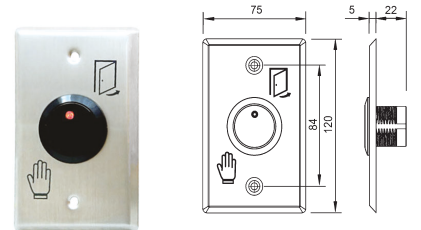
B169ZC
Waterproof touchless infrared sensor switch
24VDC 26mA
Shell : PC

Proximity range:
3~15cm



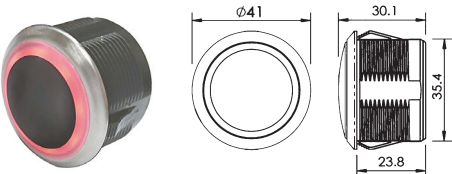
B169ZK
Waterproof touchless infrared sensor switch
W/US type panel
24VDC 26mA
Panel : Stainless steel

Proximity range:
3~15cm



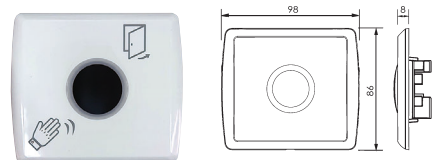
B169ZD
Waterproof touchless infrared sensor switch
24VDC 33mA
Shell : Stainless steel+PC

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	1N01NC	2N02NC

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

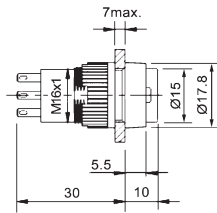
Lens color : red, blue, green, white, orange

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

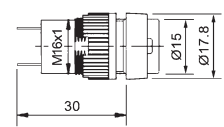
B18491
Illuminated pushbutton switch
Momentary type



B1870A /B /C /D
Indicator light

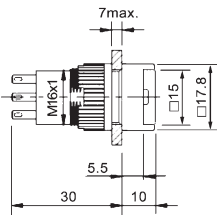
Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: red blue green white orange



B18492
Illuminated pushbutton switch
Alternate type

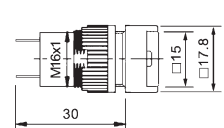
B18493
Illuminated pushbutton switch
Momentary type



B1871A /B /C /D
Indicator light

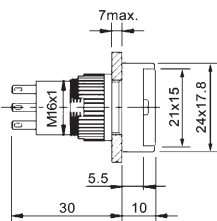
Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: red blue green white orange



B18494
Illuminated pushbutton switch
Alternate type

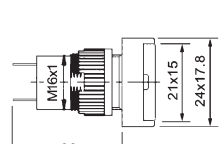
B18495
Illuminated pushbutton switch
Momentary type



B1872A /B /C /D
Indicator light

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

Lens color: red blue green white orange



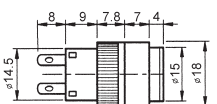
B1856B /C /D
Illuminated pushbutton switch
Alternate type

B18561B /C /D
Illuminated pushbutton switch
Momentary type



Signal	B	C	D
Rating	250V3A	24V3A	12V5A

Lens color: red blue green orange white



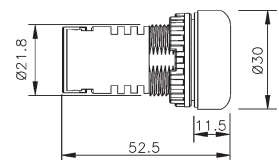
B1875A /B /C /D
Continuous buzzer

B18751A /B /C /D
Intermittence buzzer



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

Lens color: black



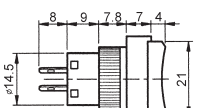
B1857B /C /D
Illuminated pushbutton switch
Alternate type

B18571B /C /D
Illuminated pushbutton switch
Momentary type



Signal	B	C	D
Rating	250V3A	24V3A	12V5A

Lens color: red blue green orange white



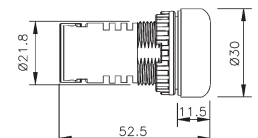
B1876A /B /C /D
Buzzer indicator light
Continuous light type

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

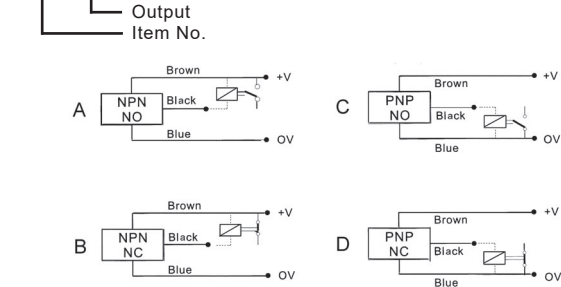


Signal	A	B	C	D
Rating	110V	220V	24V	12V

Lens color: red



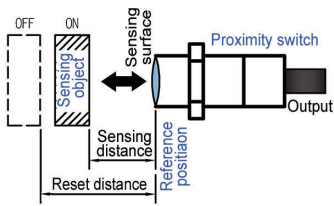
B19430 x (from B19430 to B19436)



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

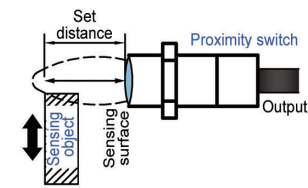
Explanation of terms:

Sensing Distance



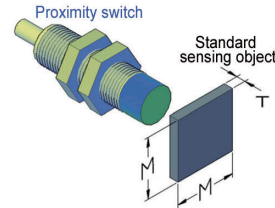
The distance from the reference position (reference surface) to the measured operation (reset) when the standard sensing object is moved by the specified method.

Set Distance



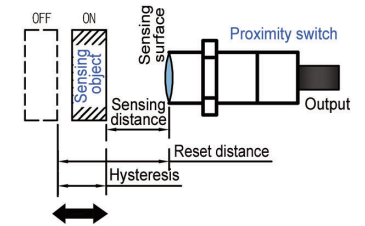
The distance from the reference surface that allows stable use, including the effects of temperature and voltage, to the (standard) sensing object transit position.

Standard Sensing Object



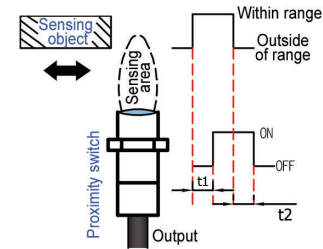
A sensing object that serves as a reference for measuring basic performance, and that is made of specified materials and has a specified shape and dimensions.

Hysteresis (Differential Travel)



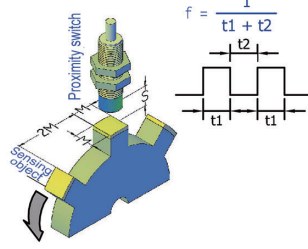
With respect to the distance between the standard sensing object and the sensor, the difference between the distance at which the sensor operates and the distance at which the sensor resets.

Response Time



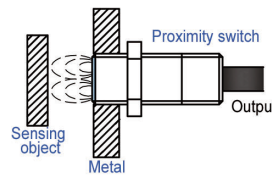
t1: The interval from the point when the standard sensing object moves into the sensing area and the sensor activates, to the point when the output turns ON.
t2: The interval from the point when the standard sensing object moves out of the sensor sensing area to the point when the sensor output turns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

Response Frequency



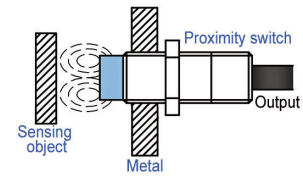
The number of detection repetitions that can be output per second when the standard sensing object is repeatedly brought into proximity.

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.

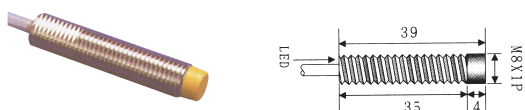
B19430
Tubular proximity switch
Sensing distance : 1mm
Response frequency : 1.5KHz
Standard object (iron) : 8x8x1t (t=1mm)



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)

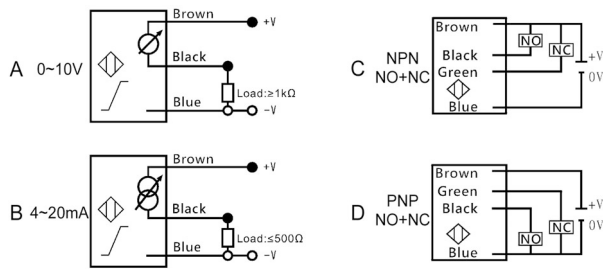


B19436
Tubular proximity switch
Sensing distance : 5mm
Response frequency : 200Hz
Standard object (iron) : 18x18x1t (t=1mm)

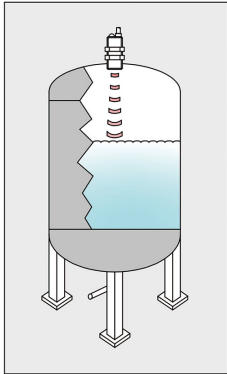


B19450 x (from B19450 to B19452)

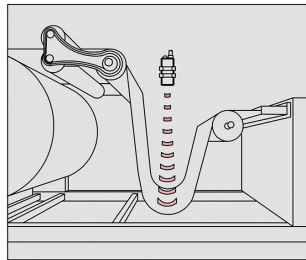
Output Item No.



Applications :



Detecting liquid levels



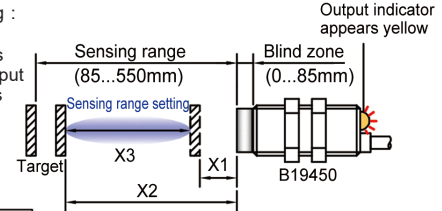
Control of sheet tension

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 :

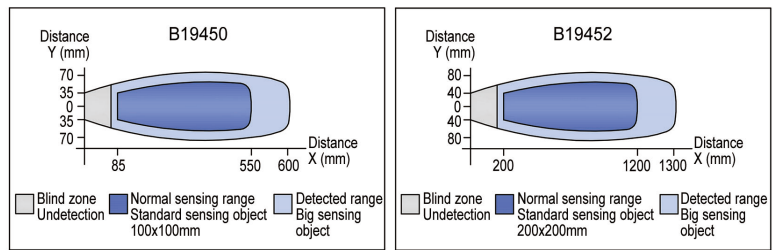
After B19450 has been set, the output indicator appears yellow when the sensing object through the sensing range.



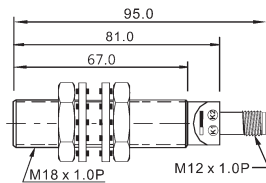
The distance between X1 and X2 has need to longer than 50mm.

- 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 :

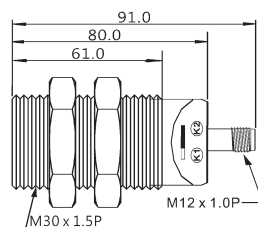


B19450
Ultrasonic sensor M18x1.0
with M12 cable 2M



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°C~70°C			
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°C~70°C			
Humidity	RH 35~85%			
Connecting method	M12 plug connector			

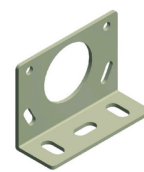
B19450MA
Mounting bracket for M18 sensor
(for B19450)



B19450MB
Mounting bracket for M18 sensor
(for B19450)



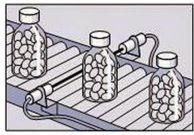
B19452MA
Mounting bracket for M30 sensor
(for B19452)



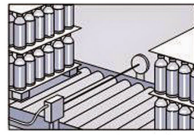
Introduction (for B19470 ~ B19501) :

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.

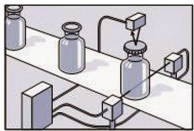
Applications:



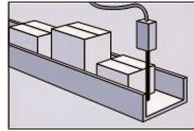
Verifying objects in clear bottles



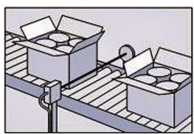
Flow of pallets carrying bottles



Detecting caps on bottles



Detecting items of varying height



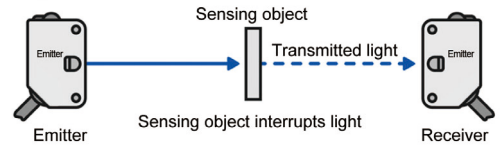
Counting cartons



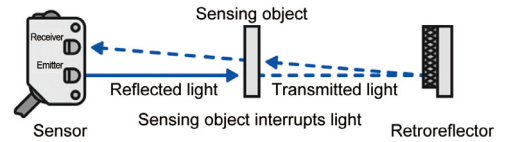
Car wash

Main types of photoelectric sensors:

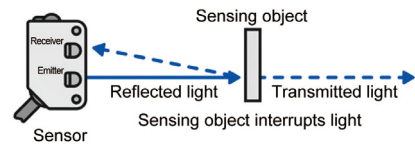
Through-beam sensors



Retro-reflective sensors

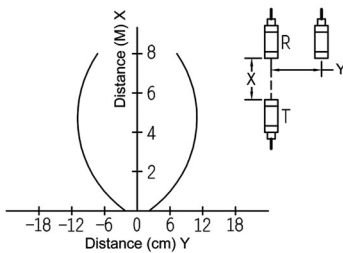


Diffuse-reflective sensors

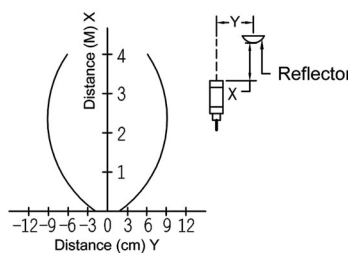


Parallel sensing range:

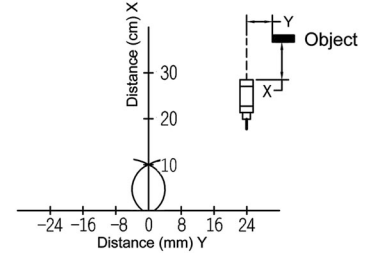
B19470 Sensing range



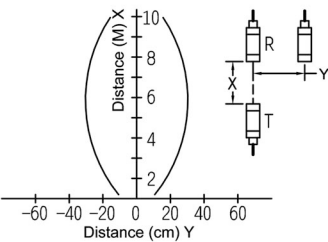
B19471 Sensing range



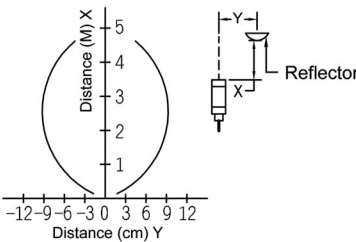
B19472 Sensing range



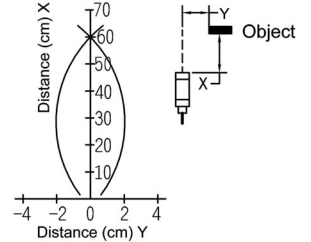
B19480 Sensing range



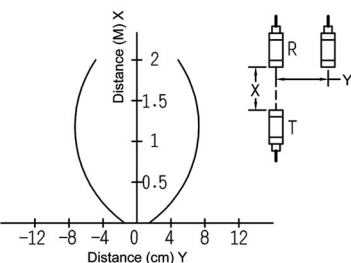
B19481 Sensing range



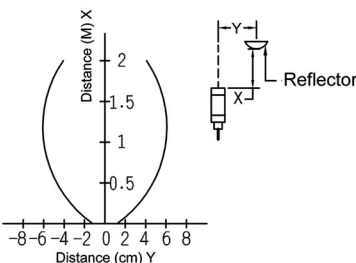
B19482 Sensing range



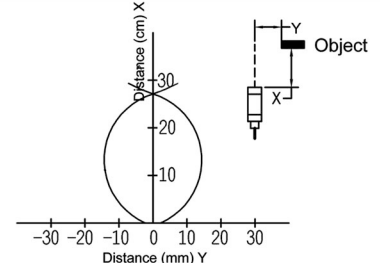
B19490 Sensing range



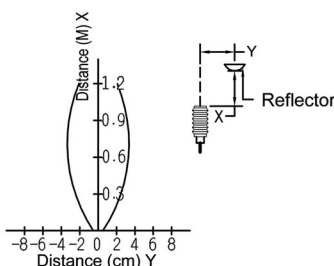
B19491 Sensing range



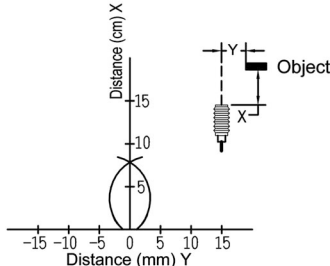
B19492 Sensing range



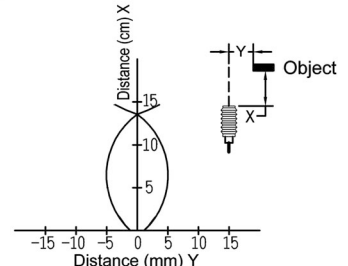
B19500 Sensing range



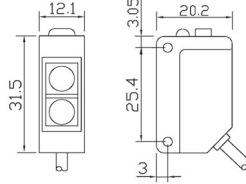
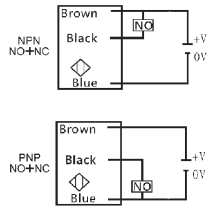
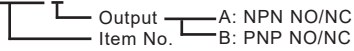
B19501A Sensing range



B19501B Sensing range

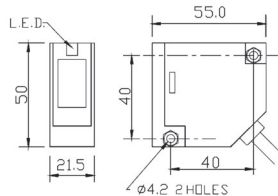
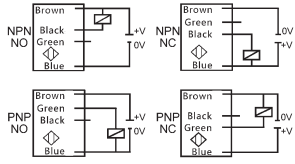
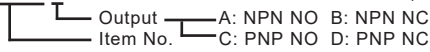


- B19470** x Photoelectric sensor through-beam (2M)
- B19471** x Photoelectric sensor retro-reflective W/reflector (2M)
- B19472** x Photoelectric sensor diffuse-reflective (2M)



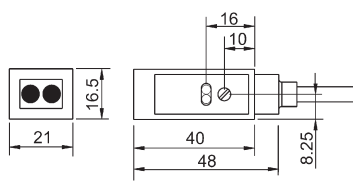
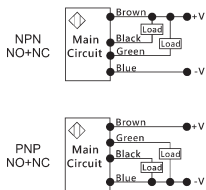
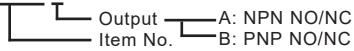
Item No.	B19470	B19471	B19472
Sensing distance	8M	3M	10cm
Standard sensing object	Opaque 15mm	Opaque 75mm	White paper 80x80mm
Operating voltage	DC 12~24V		
Response time	< 5ms		
Load current	< 100mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient temperature	-20°C~55°C		
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)



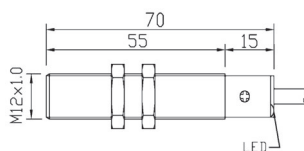
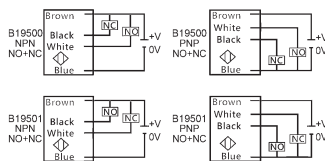
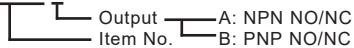
Item No.	B19480	B19481	B19482
Sensing distance	10M	4M	70cm
Standard sensing object	Opaque 20mm	Opaque 70mm	White paper 30x30cm
Operating voltage	DC 12~24V		
Response time	< 10ms		
Load current	< 200mA		
Operation indicator	Red LED		
Light source	Infrared LED		
Enclosure protection	IEC IP65		
Ambient 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)



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°C~55°C		
Circuit protection	Reversed polarity protection		
Ambient illumination	Lamplight < 3000 Lux Sunlight < 10000 Lux		
With light on and dark on two functions			

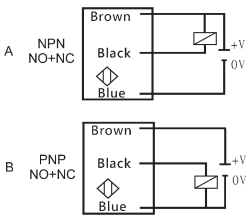
- B19500** x Photoelectric sensor retro-reflective W/reflector (2M)
- B19501** x Photoelectric sensor diffuse-reflective (2M)



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°C~55°C		
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.



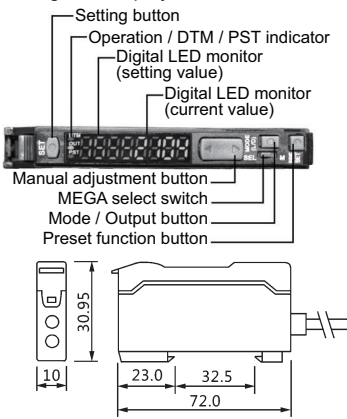
Features :

- 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 ≤ 0.1ms Fine mode ≤ 0.5ms Super mode ≤ 1ms Mega mode ≤ 16ms
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:

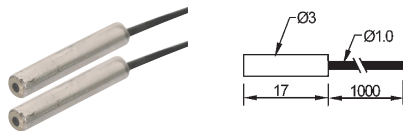
Step 1.
1. Open the protective cover.
2. Press down the lock lever.
3. Insert the fiber unit to the upper hole (emitter side), and lower hole (receiver side).

Step 2.
1. Insert the fiber unit to the emitter and receiver contact (depth 14mm approx.).
2. Lock the lock lever.
3. Press down the protective cover.

Step 3.
Finished 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.

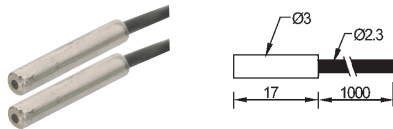
B19540
Fiber optic sensor cable
through-beam (1M)
sensing distance: 25~80mm



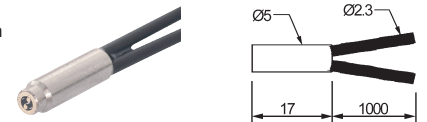
B19550
Fiber optic sensor cable
diffuse-reflective (1M)
sensing distance: 8~35mm



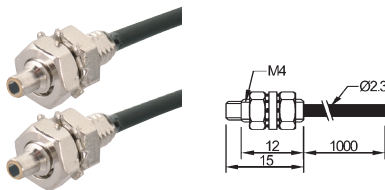
B19541
Fiber optic sensor cable
through-beam (1M)
sensing distance: 65~400mm



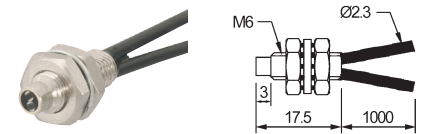
B19551
Fiber optic sensor cable
diffuse-reflective (1M)
sensing distance: 35~100mm



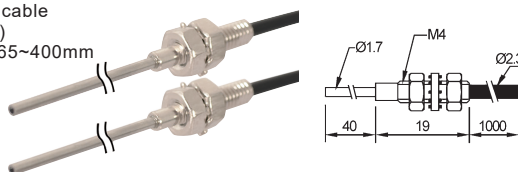
B19544
Fiber optic sensor cable
through-beam (1M)
sensing distance: 65~400mm



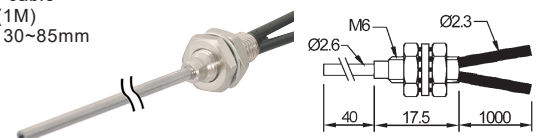
B19554
Fiber optic sensor cable
diffuse-reflective (1M)
sensing distance: 30~85mm






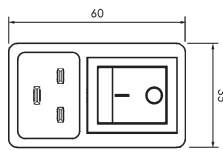




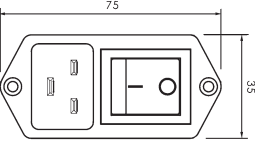




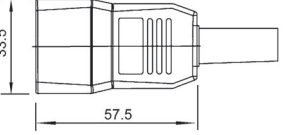



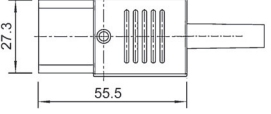



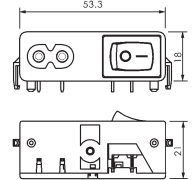


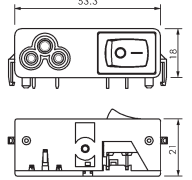


B19547
Fiber optic sensor cable
through-beam (1M)
sensing distance: 65~400mm



B19557
Fiber optic sensor cable
diffuse-reflective (1M)
sensing distance: 30~85mm

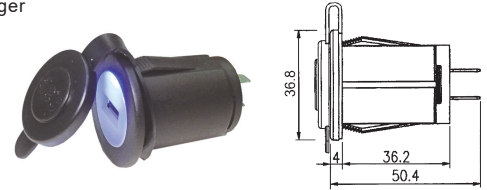


<p>LTCC chip fuse (3.1 x 1.6mm) K239320 1A ~ 8A (63V)</p>  <p>Slow blow LTCC chip fuse K239321 1A ~ 8A (63V)</p>  <p>Application: • LCD Displays • Notebook Computers</p> 	<p>K241580 Panel mount AC socket terminal 6.3mm</p>   
<p>Power fuse (10Ø x 38mm) K239325 15A ~ 30A (1000V)</p>  <p>Application: • Inverters • Combiner boxes • Battery charge controllers</p> 	<p>K241582 Panel mount AC socket terminal 6.3mm</p>   
<p>Power fuse (10Ø x 38mm) K239326 15A ~ 30A (1000V)</p>  <p>Application: • Inverters • Combiner boxes • Battery charge controllers</p> 	<p>K24181 AC connector 250V 16A/20A</p>   
<p>Power fuse (10Ø x 38mm) K239327 10A ~ 50A (500V)</p> <p>Application: • EV power systems</p> 	<p>K24182 AC connector 250V 16A/20A</p>   
<p>Power fuse (10Ø x 38mm) K239328 10A ~ 50A (500V) Bolt down type</p> <p>Application: • EV power systems</p> 	<p>K2530 AC socket with switch</p>   
	<p>K2535 AC socket with switch</p>   

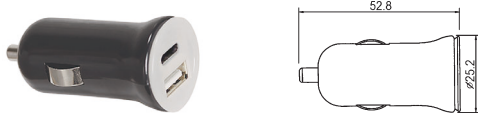
K2667
Alligator clip W/Ø2.0 socket



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

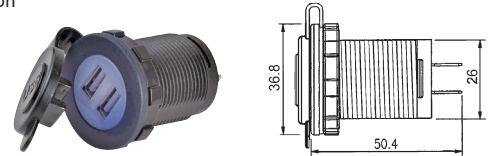


K32086
Auto plug to USB/A & USB/C adapter W/LED
In:12V/24V
Out:5V 2.1A



K322015
Dual USB/A type charger
W/reverse protection
W/LED
In:12V/24V
Out:5V 2.4A

CE



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

CE



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



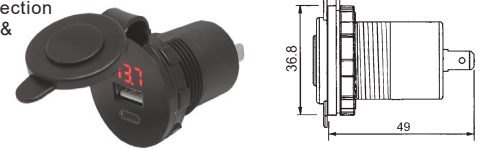
K320885
Auto plug to USB/A & C adapter W/short circuit
/ over current / over temperature protection
In:12V/24V

Out:
QC3.0 Type A -
5V3A/9V2A/12V1.5A
PD3.0 Type C -
5V3A/9V3A/12V3A/
15V2.5A/20V2.25A

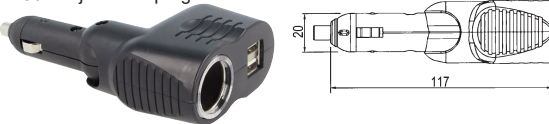


CE

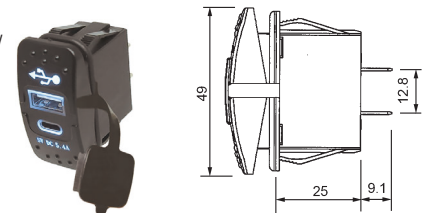
K32203
USB/A & C type charger W/fuse
W/reverse / short circuit /
over voltage protection
W/LED / voltage &
current meter
In:12V/24V
Out:5V 2.4A



K3209
Auto plug to auto jack & 2 x USB/A adapter
W/light ring / fuse / short circuit / over voltage
protection / 0°~180° adjustable plug
In:12V/24V
Out:5V 2.1A

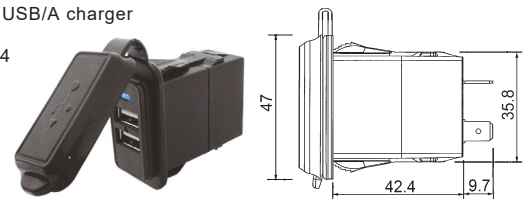


K32204
USB/A & C type charger
W/reverse / short circuit /
over voltage protection
W/LED
In:12V/24V
Out:
Type A-5V 2.4A
Type C-5V 3A



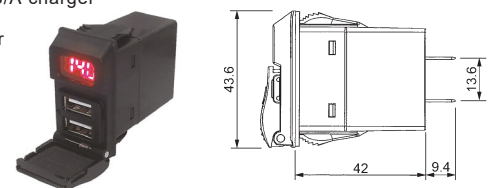
K32205
Waterproof dual USB/A charger
W/LED
can reach to IP64
In:12V/24V
Out:5V 2.4A

CE

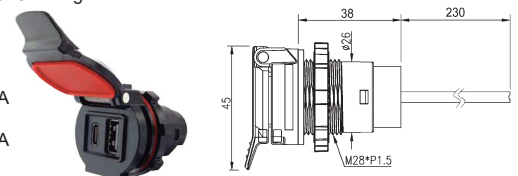


K32206
Waterproof dual USB/A charger
W/reverse protection
W/LED voltage meter
can reach to IP64
In:12V/24V
Out:5V 2.4A

CE

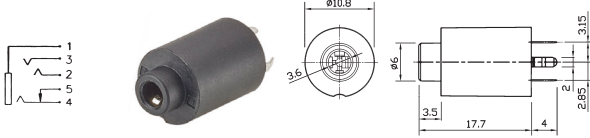


K32207
Waterproof USB/A & C charger
can reach to IPX5
In:12V
Out:
QC3.0 Type A -
5V3A/9V2A/12V1.5A
PD3.0 Type C -
5V3A/9V2A/12V1.5A



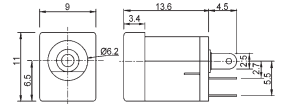
K36380

Waterproof 3.5mm stereo phone jack
can reach to IPX7



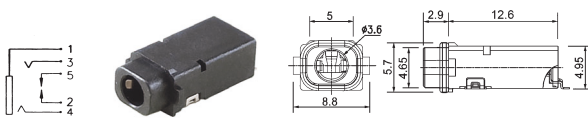
K375Y01 /02

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



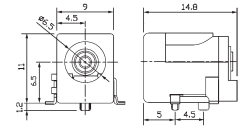
K36440

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



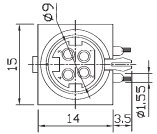
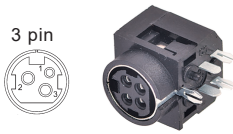
K375Y03 /04

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



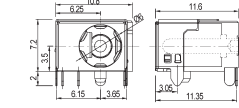
K37154A /B

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



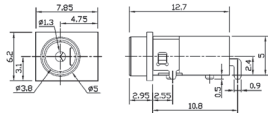
K375Y05 /06

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



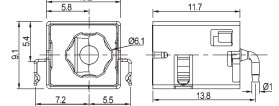
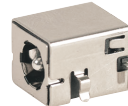
K37216

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



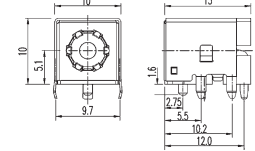
K375Y07 /08

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



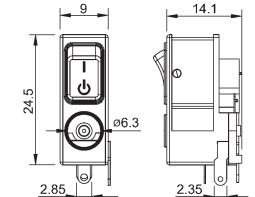
K375Y09 /10 (K375Y1 /Y2)

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



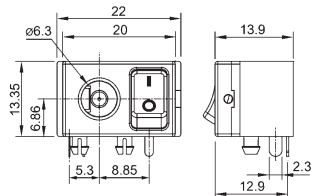
K375Z05 /06

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

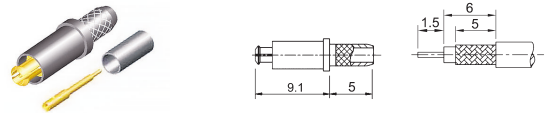


K37703

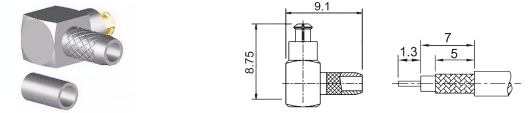
Convert AS/NZS 3112 plug to NEMA5-15R jack
Rated : 250V 10A


M52480

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


M52482

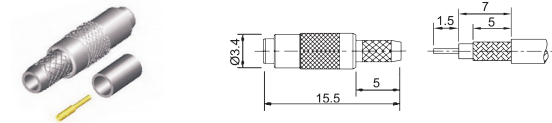
Right angle MC card male crimp type gold-pin (RG174U/178U)


K37706

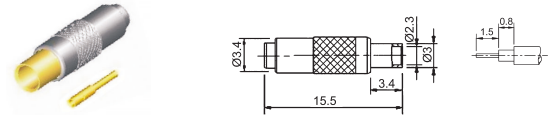
Convert CEE7-7 Europlug to NEMA5-15R jack
Rated : 250V 10A


M52484

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


M52486

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


K37748

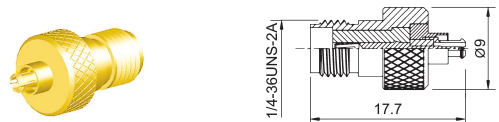
Convert IEC-C14 plug to NEMA5-15R jack
Rated : 125V 10A


M52488

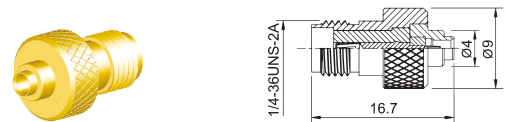
MC card female edge mount gold-pin


M52490

MC card male to SMA female (gold-plated)


M52492

MC card female to SMA female (gold-plated)

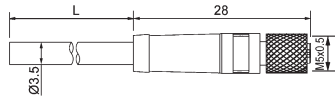


M59400 M59401

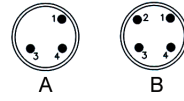


M59400

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

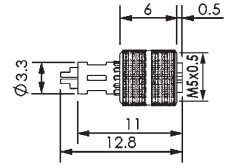


M59405 M59406 M59407 M59408



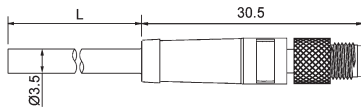
M59405

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



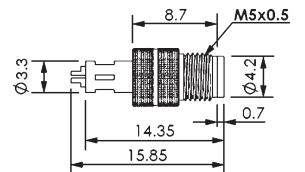
M59401

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



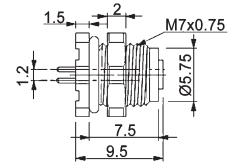
M59406

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



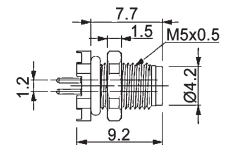
M59407

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

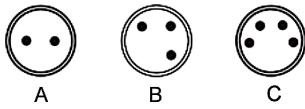


M59408

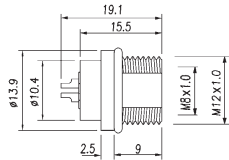
Waterproof male M5 connector
 Pin : (A)3P (B)4P 360°
 1A60V
 can reach to IP67



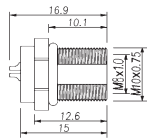
M594280 M594281 M594285 M594286



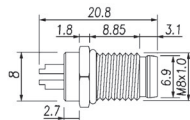
M594280
Waterproof female M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



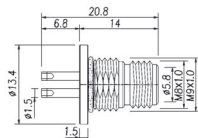
M594281
Waterproof female M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



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



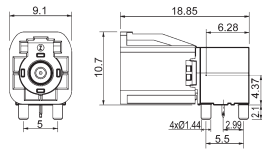
M594286
Waterproof male M8 connector
(A)2P (B)3P (C)4P 180°
4A60V
can reach to IP67



N596000

Right angle mini FAKRA plug type A

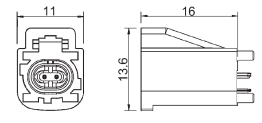
Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue



N596030

H-CMTD plug 2 signal pins

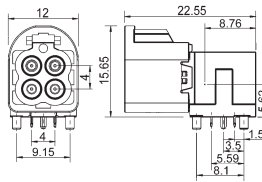
Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue



N596002

Right angle mini FAKRA plug type A

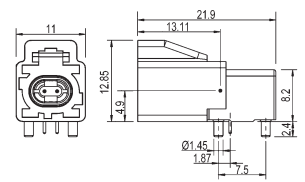
Color :
black white
green blue
violet brown
waterblue



N596032

Right angle H-CMTD plug 2 signal pins

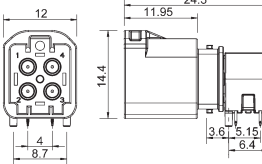
Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue



N596004

Right angle mini FAKRA plug type B

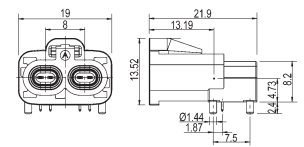
Color :
black white
green blue
violet brown
waterblue



N596034

Right angle H-CMTD plug 2x2 signal pins

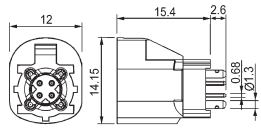
Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue



N596006

FAKRA HSD plug

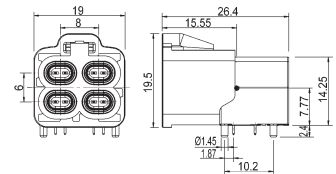
Color :
black white
green blue
brown
bordeaux
waterblue



N596036

Right angle H-CMTD plug 4x2 signal pins

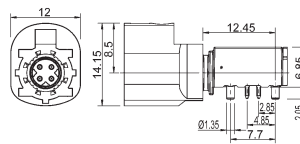
Color :
black white
green blue
violet brown
grey light-pink
beige curry
waterblue



N596008

Right angle FAKRA HSD plug

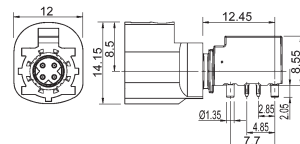
Color :
black white
green blue
brown
bordeaux
waterblue



N596010

Right angle FAKRA HSD plug

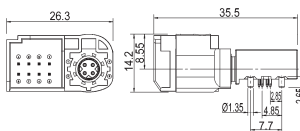
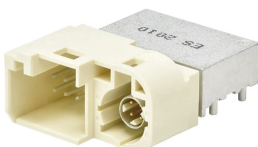
Color :
black white
green blue
brown
bordeaux
waterblue



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



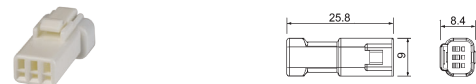
N60002R
2mm Sealed JWPF series wire to wire connector
receptacle 2P



N60003
2mm Sealed JWPF series wire to wire connector
plug 3P



N60003R
2mm Sealed JWPF series wire to wire connector
receptacle 3P



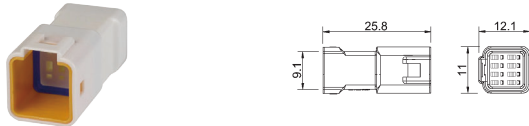
N60004
2mm Sealed JWPF series wire to wire connector
plug 4P



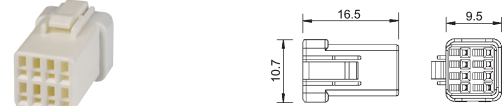
N60004R
2mm Sealed JWPF series wire to wire connector
receptacle 4P



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)

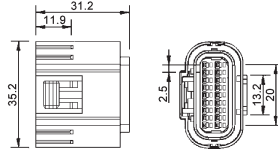


N600RT
JWPF series terminal 26-22AWG
(8K/reel)



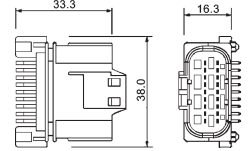
N60118R

2.5mm Sealed MX23A series connector receptacle 18P



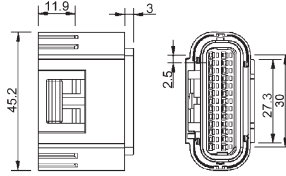
N60118

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



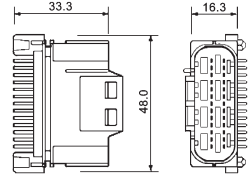
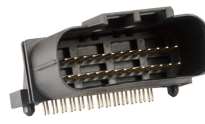
N60126R

2.5mm Sealed MX23A series connector receptacle 26P



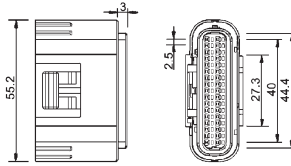
N60126

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



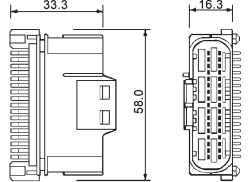
N60134R

2.5mm Sealed MX23A series connector receptacle 34P



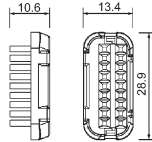
N60134

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



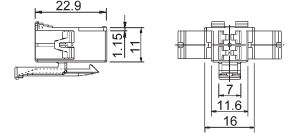
N60118RC

MX23A series front cap 18P



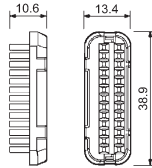
N60204R

5mm Junior power timer series connector receptacle 4P



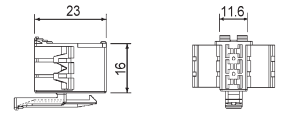
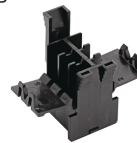
N60126RC

MX23A series front cap 26P



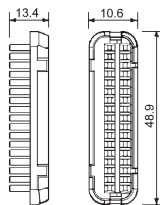
N60206R

5mm Junior power timer series connector receptacle 6P



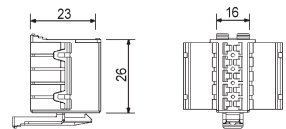
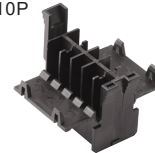
N60134RC

MX23A series front cap 34P



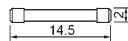
N60210R

5mm Junior power timer series connector receptacle 10P



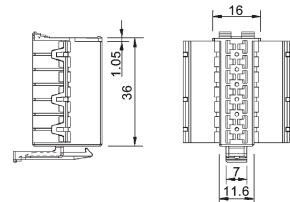
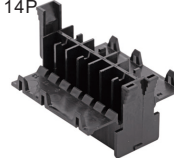
N601RP

MX23A series dummy pin



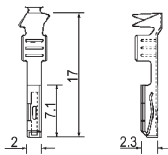
N60214R

5mm Junior power timer series connector receptacle 14P



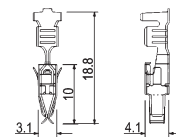
N601RT

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

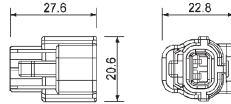


N602RT

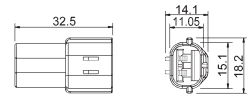
Junior power timer series terminal 20-18AWG (2500/reel)



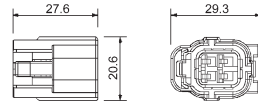
N60302
4.8mm Econoseal J-Mark II series connector plug 2P



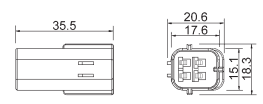
N60302R
4.8mm Econoseal J-Mark II series connector receptacle 2P



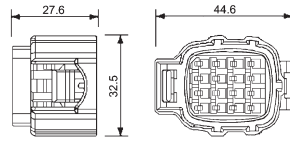
N60304
4.8mm Econoseal J-Mark II series connector plug 4P



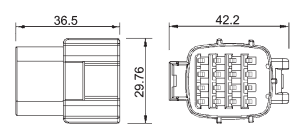
N60304R
4.8mm Econoseal J-Mark II series connector receptacle 4P



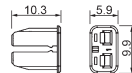
N60316
4.8mm Econoseal J-Mark II series connector plug 16P



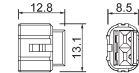
N60316R
4.8mm Econoseal J-Mark II series connector receptacle 16P



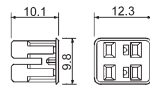
N60302K
Econoseal J-Mark II series lock plate 2P



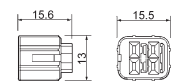
N60302RK
Econoseal J-Mark II series lock plate 2P



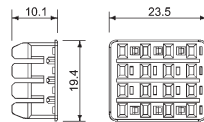
N60304K
Econoseal J-Mark II series lock plate 4P



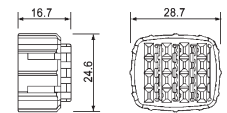
N60304RK
Econoseal J-Mark II series lock plate 4P



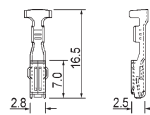
N60316K
Econoseal J-Mark II series lock plate 16P



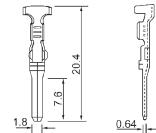
N60316RK
Econoseal J-Mark II series lock plate 16P



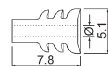
N603PT
Econoseal J-Mark II series terminal 22-20AWG (5K/reel)



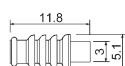
N603RT
Econoseal J-Mark II series terminal 22-20AWG (5K/reel)


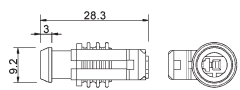

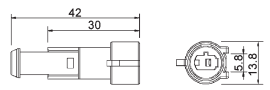

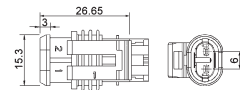



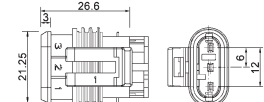

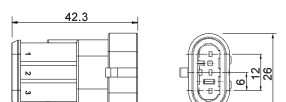

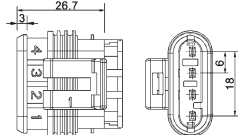

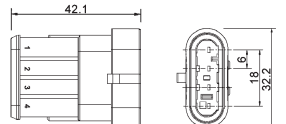

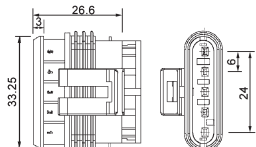

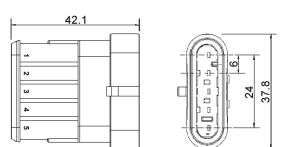

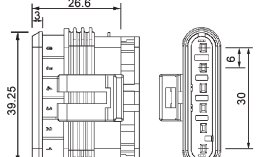

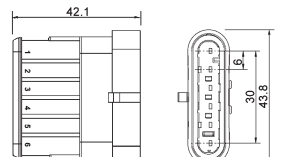

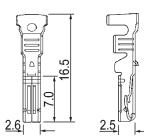

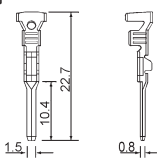

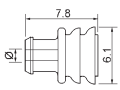



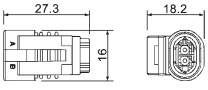

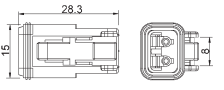

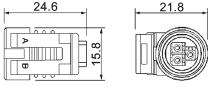



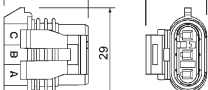

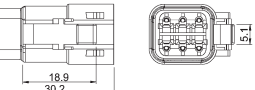

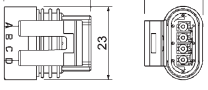

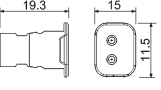

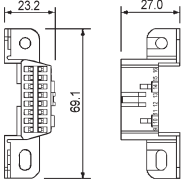

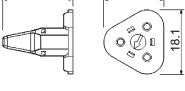

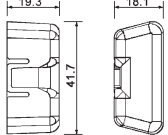

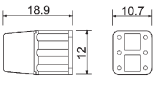

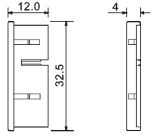

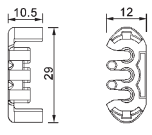

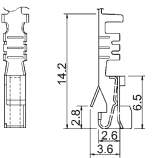
N60313WB Econoseal J-Mark II series Ø1.3 wire seal black
N60317WG Econoseal J-Mark II series Ø1.7 wire seal gray



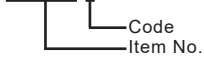
N60330WB
Econoseal J-Mark II series Ø3.0 wire seal black



<p>N60401 6mm Specalseal 1.5 series wire to wire connector plug 1P</p>  	<p>N60401R 6mm Specalseal 1.5 series wire to wire connector receptacle 1P</p>  
<p>N60402 6mm Specalseal 1.5 series wire to wire connector plug 2P</p>  	<p>N60402R 6mm Specalseal 1.5 series wire to wire connector receptacle 2P</p>  
<p>N60403 6mm Specalseal 1.5 series wire to wire connector plug 3P</p>  	<p>N60403R 6mm Specalseal 1.5 series wire to wire connector receptacle 3P</p>  
<p>N60404 6mm Specalseal 1.5 series wire to wire connector plug 4P</p>  	<p>N60404R 6mm Specalseal 1.5 series wire to wire connector receptacle 4P</p>  
<p>N60405 6mm Specalseal 1.5 series wire to wire connector plug 5P</p>  	<p>N60405R 6mm Specalseal 1.5 series wire to wire connector receptacle 5P</p>  
<p>N60406 6mm Specalseal 1.5 series wire to wire connector plug 6P</p>  	<p>N60406R 6mm Specalseal 1.5 series wire to wire connector receptacle 6P</p>  
<p>N604PTA Specalseal 1.5 series terminal 22-20AWG N604PTB Specalseal 1.5 series terminal 18-16AWG (3500/reel)</p>  	<p>N604RTA Specalseal 1.5 series terminal 22-20AWG N604RTB Specalseal 1.5 series terminal 18-16AWG (3500/reel)</p>  
<p>N60410WG Specalseal 1.5 series Ø1.0 wire seal green N60414WY Specalseal 1.5 series Ø1.4 wire seal yellow N60418WR Specalseal 1.5 series Ø1.8 wire seal red</p>  	

<p>N60502R 6mm Metri-Pack 150 series connector receptacle 2P</p>  	<p>N60602 Sealed DT series wire to wire connector plug 2P</p>  
<p>N60503AR 6mm Metri-Pack 150 series connector receptacle 3P</p>  	<p>N60603 Sealed DT series wire to wire connector plug 3P</p>  
<p>N60503BR 6mm Metri-Pack 150 series connector receptacle 3P</p>  	<p>N60606 Sealed DT series wire to wire connector plug 6P</p>  
<p>N60504R 6mm Metri-Pack 150 series connector receptacle 4P</p>  	<p>N60602K DT series wedgelock 2P</p>  
<p>N60516R 4mm Metri-Pack 150 series connector receptacle 16P</p>  	<p>N60603K DT series wedgelock 3P</p>  
<p>N60516RC Metri-Pack 150 series connector cover for N60516R</p>  	<p>N60606K DT series wedgelock 6P</p>  
<p>N60516RK Metri-Pack 150 series TPA lock for N60516R</p>  	
<p>N60503BK Metri-Pack 150 series secondary lock for N60503BR</p>  	
<p>N605RT Metri-Pack terminal 18AWG (3400/reel)</p>  	

N60901 x (from N60901 to N60903S)



Features:

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

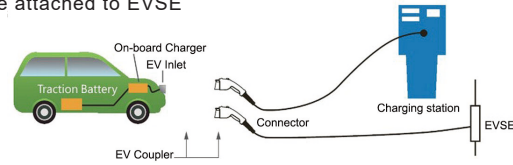
Application:

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

General charging mode of IEC61851

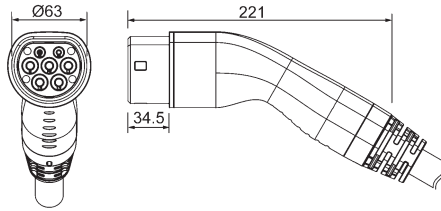
Type	Charging mode	Power supply	Breaker	Charging power	Device	Charging time (24KWh Battery)
Normal	Mode 1	230VAC, 1Ø	16A	3.3KW	Home outlet	8h
	Mode 2	230VAC, 1Ø	32A	6.6KW	ICCB	4h
	Mode 3	230VAC, 3Ø	32A	12KW	AC EVSE	2h
Fast	Mode 4	500VDC	125A	50KW	DC EVSE	30min

Permanent cable attached to EVSE



N60901

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

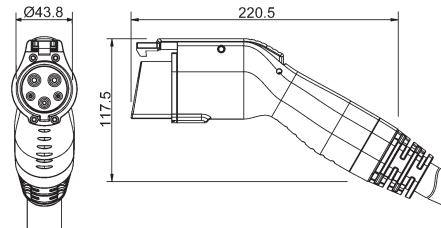


Specification:

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	3x2.5mm ² + 1x0.75mm ²	3x6.0mm ² + 1x0.75mm ²

N60903

AC charging connector for electric vehicle
SAE J1772 standard
Length: 5M

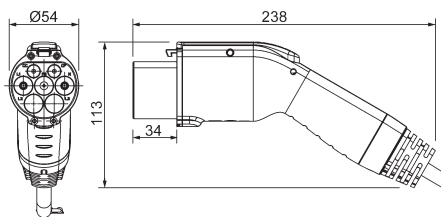


Specification:

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

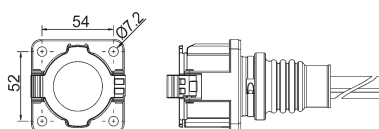


Specification:

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	3x2.5mm ² + 1x0.75mm ²	3x6.0mm ² + 1x0.75mm ²

N60903S

AC charging socket for electric vehicle
SAE J1772 standard
W/protective cap
Length: 1M



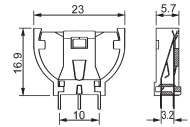
Specification:

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

N65554
9 Volt battery holder panel mount



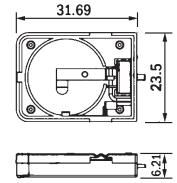
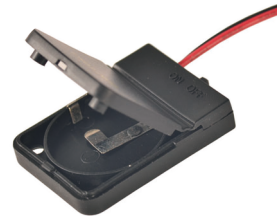
N656105
Coin cell holder
for CR2032



N655632
Waterproof UM 3 x 2 for two "AA" cell W/switch
Standard lead length 150mm
can reach to IP65



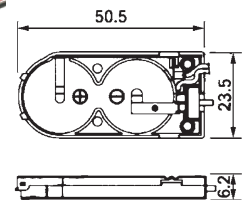
N656120
Coin cell holder
for CR2032
W/switch
Lead length:
150mm



N655633
Waterproof UM 3 x 3 for three "AA" cell W/switch
Standard lead length 150mm
can reach to IP65

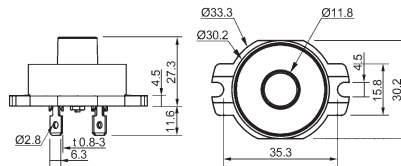


N656122
Coin cell holder
for CR2032
W/switch
Lead length:
150mm



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±5°C	90	105	105	120	135	150
Close±12°C	54	63	74	74	96	96

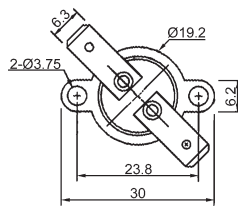
Specifications:
Protect motor: 1/6 to 5HP
Trip time: 10 ± 5 sec.
Input power: 110-120VAC
220-240VAC
Reset: Manual reset
Contacts type: NC

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



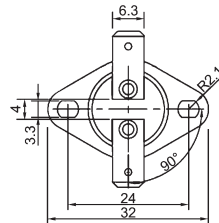
Reset type: Auto reset
Tolerance: ±3°C, ±5°C
Reset differential: 10°C~20°C
Dielectric strength: 1500VAC/1 minute
Life cycles: 100,000 cycles under rated load

Applications:
·Espressor 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



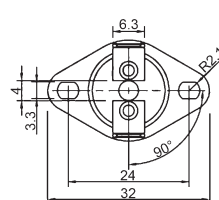
Reset type: Auto reset
Tolerance: ±3°C, ±5°C
Reset differential: 10°C~20°C
Dielectric strength: 1500VAC/1 minute
Life cycles: 100,000 cycles under rated load

Applications:
·Espressor 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: ±3°C, ±5°C
Reset differential: Reset temp. can be specified
Dielectric strength: 1500VAC/1 minute
Life cycles: 6,000 cycles under rated load

Applications:
·Espressor machines
·Vending machines
·Toaster, Microwave
·Photo copier, UPS
·Roomheater
·Home & heating appliances

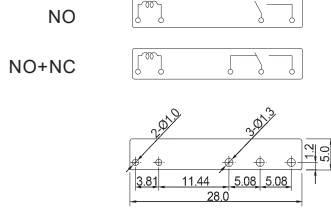
P67415 x Relay (NO)
P67416 x Relay (NO+NC)



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

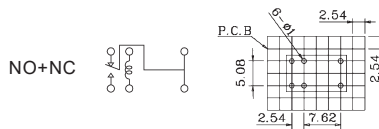
Contact arrangement	NO	NO+NC
Contact form	SPST	SPDT
Rated carrying current	8A	
Max. allowable current	8A	
Max. allowable voltage	AC400V DC30V	
Contact resistance	100mΩ Max.	
Insulation resistance	100MΩ Min. (DC500V)	

P67418 x Relay (NO+NC)

Code
Item No.



12.5 x 7.5 x 10.0



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

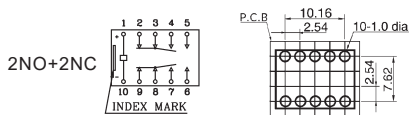
Contact rating	1A
Rated carrying current	AC125V 0.5A DC 60V 0.3A DC 30V 1A
Max. allowable current	1A
Max. allowable voltage	AC125V DC60V
Max. current (continual)	1A
Contact resistance	100mΩ Max.
Insulation resistance	100MΩ Min. (DC500V)

P67428 x Relay (2NO+2NC)

Code
Item No.



14.0 x 9.0 x 5.0



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

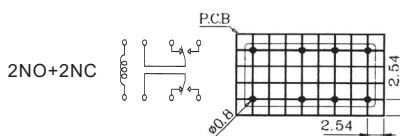
Contact arrangement	2NO+2NC
Rated carrying current	DC30V 1A AC125V 0.5A
Max. allowable current	1A
Max. switching voltage	AC250V DC220V
Max. switching current	1A
Contact resistance	50mΩ Max.
Insulation resistance	1000MΩ Min. (DC500V)

P67430 x Relay (2NO+2NC)

Code
Item No.



20.2 x 10.0 x 12.0



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)

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

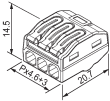
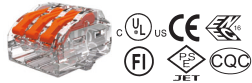
Square emergency broadcasting speaker
 ◎4" Cone type speaker
 ◎Ceiling / wall
 ◎AC 100V
 ◎92dB/1M
 ◎Material : ABS
 ◎155 x 155 x 64 mm
 A : 3W
 B : 5W

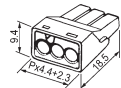
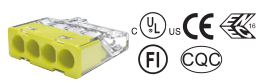


Splicing connectors for electrical industry

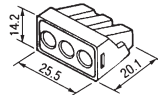
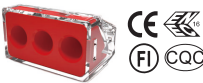
X97620

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

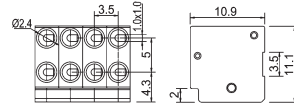
A: 2P B: 3P C: 4P D:5P

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

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

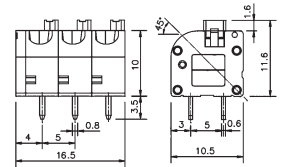
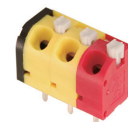
Color : red black

yellow white


X97709

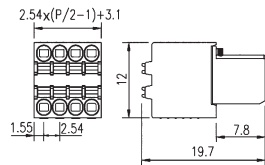
3P 5mm Terminal block

Color : Yellow-Yellow-Red

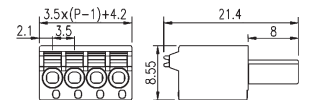

X9773Axx

2.54mm Male terminal block

06~44 pin

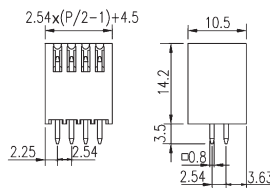

X9773Gxx

3.5mm Male terminal block

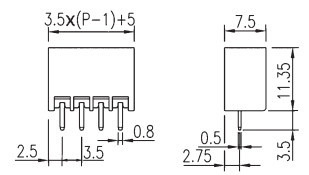
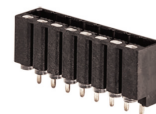
 With light pipe
02~24 pin

X9773Bxx

2.54mm Female terminal block

06~44 pin

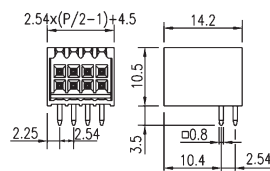
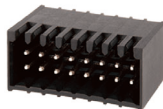

X9773Hxx

3.5mm Female terminal block

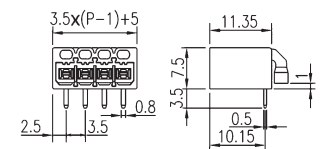
 With light pipe
02~24 pin

X9773Cxx

2.54mm Female terminal block (right angle)

06~44 pin

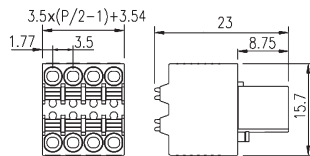

X9773Jxx

3.5mm Female terminal block (right angle)

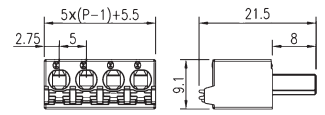
 With light pipe
02~24 pin

X9773Dxx

3.5mm Male terminal block

04~44 pin

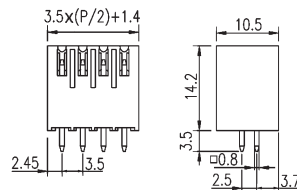

X9773Kxx

5mm Male terminal block

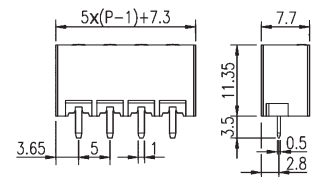
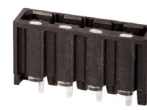
 With light pipe
02~16 pin

X9773Exx

3.5mm Female terminal block

04~44 pin

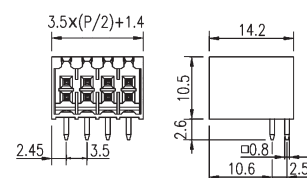

X9773Lxx

5mm Female terminal block

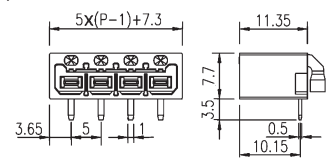
 With light pipe
02~16 pin

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



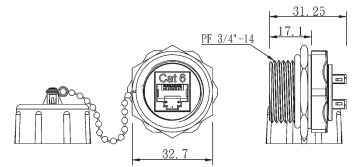
Assembly guide for X981126 & X981128



X9808861 (X980906)
Modular plug (8P8C) for CAT.6
3-prong contact blades
passing through type



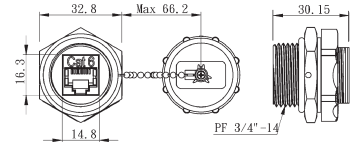
X98301
Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



X9808865 (X980906S)
Modular shielded plug (8P8C) for CAT.6
3-prong contact blades
passing through type



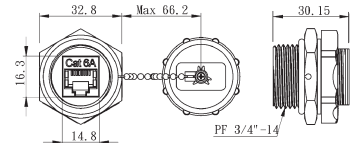
X98303
Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



X9808862 (X980916)
Modular plug (8P8C) W/arch latch for CAT.6
3-prong contact blades
passing through type



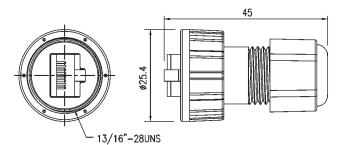
X98304
Waterproof modular jack (8P8C) for CAT.6
can reach to IP67



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

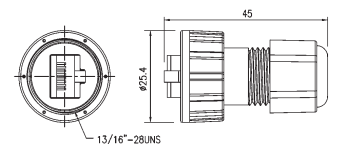


X981126
Field termination RJ45 plug for CAT.6a
can reach to IP20

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

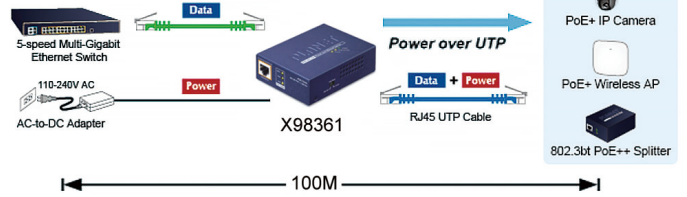


X98361

Single-port 95W 802.3bt PoE++ injector

Specifications:

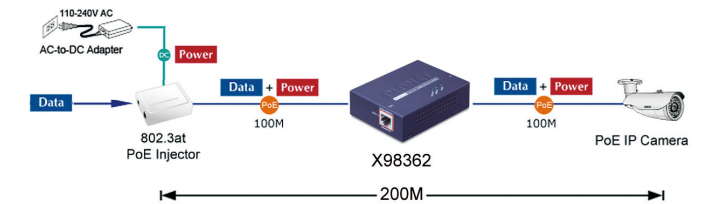
- Input port: 1 x RJ45 STP
- Output port: 1 x RJ45 STP PoE
- DC input: 52V~54VDC/2.5A Max.
- Data rate: 10M/100M/1G/2.5G/5G/10Gbps
- PoE output power: 52V~54VDC/95W Max.
- PoE power type: End-span+Mid-span
- PoE standard: IEEE 802.3af/at/bt PSE
- Operating Temp.: 0°C to 50°C
- Dimensions: 94(W) x 70(D)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


X98362

Single-port 26W 802.3at PoE+ extender

Specifications:

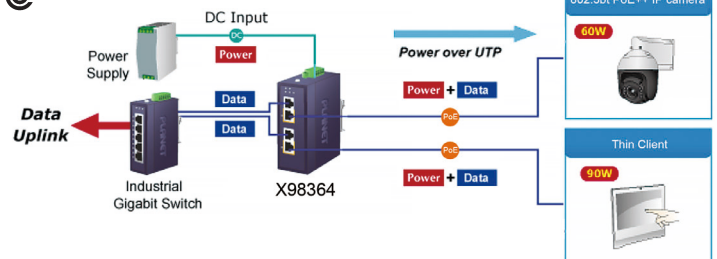
- Input port: 1 x IEEE 802.3af/at PoE
- Output port: 1 x IEEE 802.3af/at PoE
- PoE input power: 48V~56VDC/30.8W Max.
- Data rate: 10M/100M/1000Mbps
- PoE output power: 44V~52VDC/26W Max.
- PoE power type: End-span/Type A
- PoE standard: IEEE 802.3af/at PSE
- Operating Temp.: -10°C to 60°C
- Dimensions: 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~54VDC/2.5A Max.
- Data rate: 10M/100M/1G/2.5G/5Gbps
- PoE output power: 48VDC/120W Max.
52V/54VDC/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:

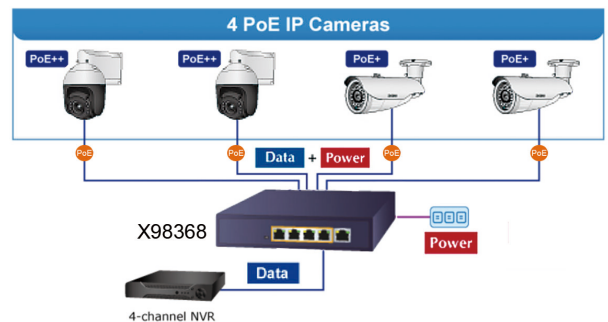
- Input port: 2 x RJ45 STP
- Output port: 4 x RJ45 STP 802.3af/at PoE
- DC input: 54VDC/1.3A Max.
- Data rate: 10M/100M/1000Mbps
- PoE output power (per port):
54VDC/15.4W Max.@802.3af
54VDC/30W Max.@802.3at
- PoE power type: End-span
- PoE standard: IEEE 802.3af/at PSE
- Operating Temp.: 0°C to 50°C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

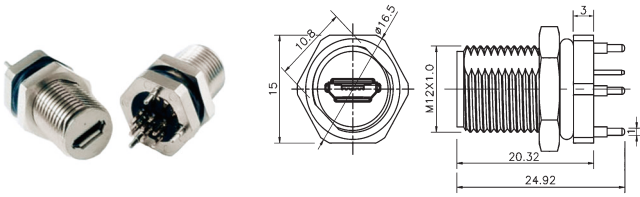
Specifications:

- 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



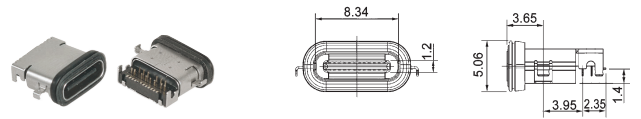
Y98846

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



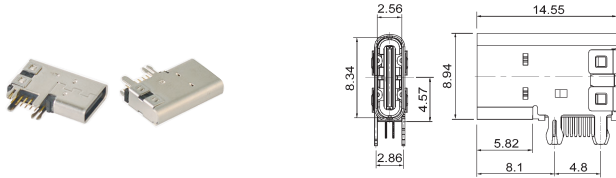
Y989095

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



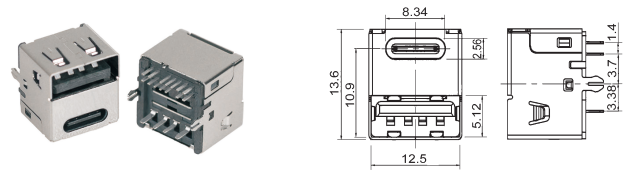
Y989083

USB 3.1/C type socket right angle



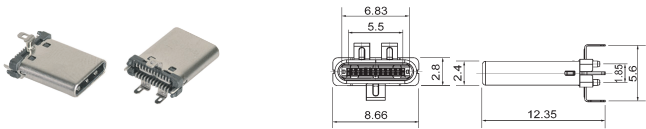
Y990075

USB/A type & USB 3.1/C type socket



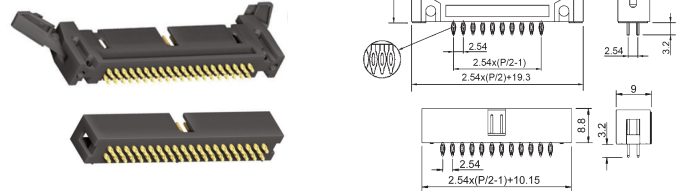
Y989092

USB 3.1/C type plug

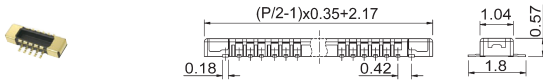


Box header 2.54mm press fit type

Straight : **YRPxx**
Straight : **YRPWxx** (W/O latch lever)
No. of pins : 10 to 64



Board to board male connector (SMD)
YSB03Axx

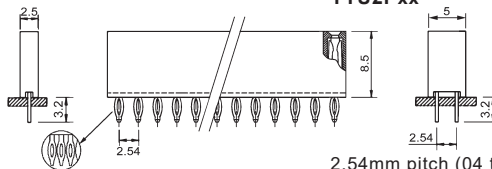
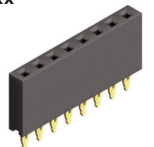


Board to board female connector (SMD)
YSB03Bxx



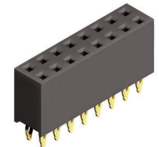
0.35mm pitch (10 to 60 pins) male + female = 0.7mm

Female header single row (press fit type)
YTU1Pxx



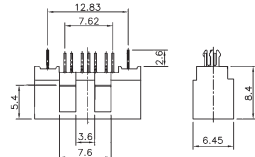
2.54mm pitch (02 to 40 pins)

Female header dual rows (press fit type)
YTU2Pxx

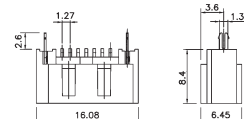


2.54mm pitch (04 to 80 pins)

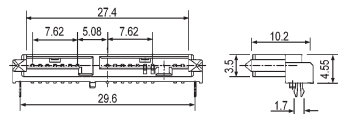
7P SATA 3.0 female dip type
YXSE07F



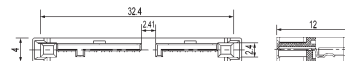
7P SATA 3.0 female SMD type
YXSE07F1



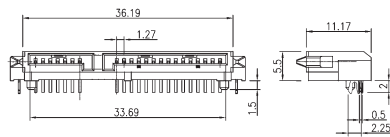
7+9P Micro SATA female SMD type
YXSE16F



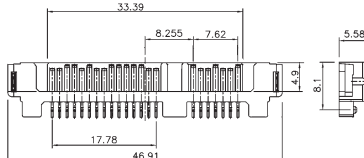
7+9P Micro SATA male SMD type
YXSE16M



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



7+15P SATA 3.0 male SMD type
YXSE22M



ZSN131

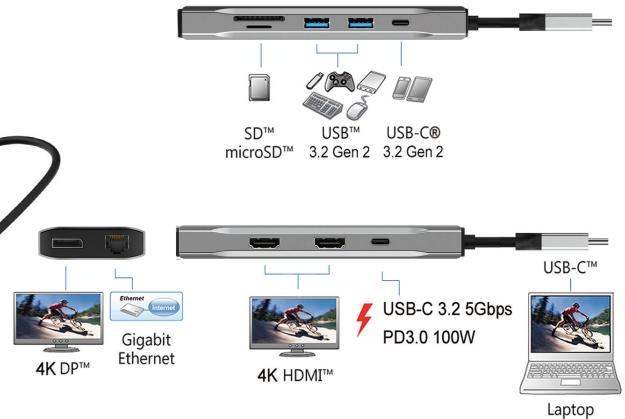
USB 3.2/C type triple display docking station (20cm)

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 plug x 1
- Downstream USB port:
 - USB 3.2 Gen 2/A type x 2
 - USB 3.2 Gen 2/C type x 1
 - USB 3.2 Gen 1/C type x1 (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 4.0 and microSD 4.0 card slots
- Dimensions: 148 (L) x 55 (W) x 17 (H) mm


ZSN133

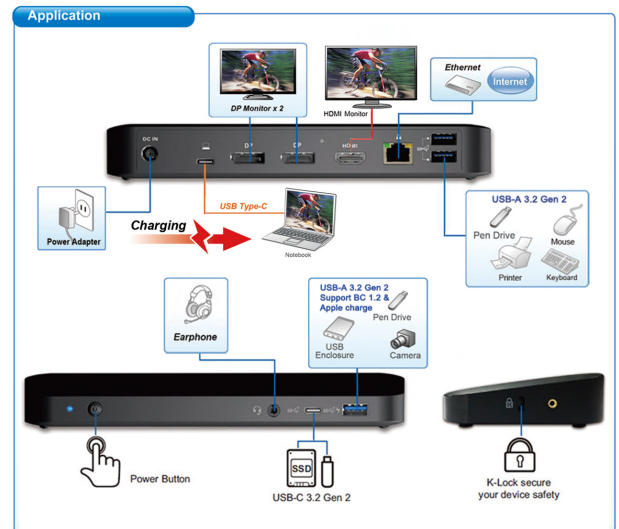
USB 3.2/C type DP1.4 MST PD docking station

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

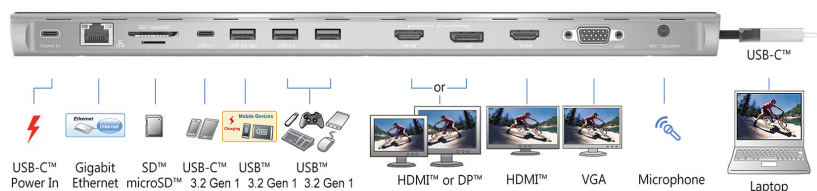
13 In 1 USB 3.2/C type triple display docking station (45cm)

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:**

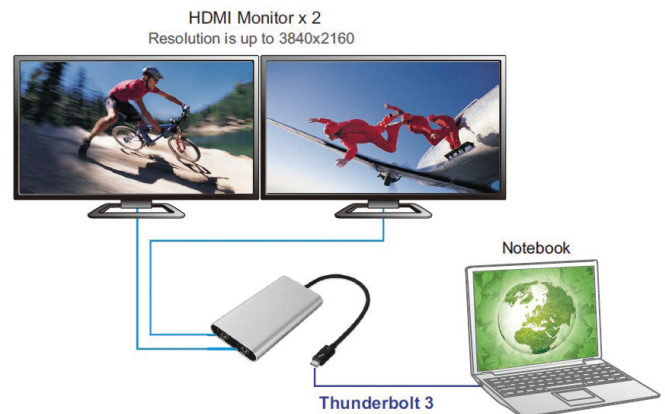
The Thunderbolt™ 3 Dual HDMI 2.0 output adapter lets users easily connect two HDMI embedded devices from PCs with Thunderbolt 3 interface. This adapter's output resolution is up to 3840 x 2160@60Hz. No need to install extra drivers, just plug and play, and start to enjoy your high-end life with this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

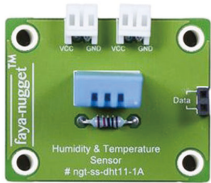
- Operating voltage: 5VDC
- Humidity range: 20 ~ 90% RH
- Temp. range: 0°C to 50°C
- Humidity accuracy: ±5% RH
- Temp. accuracy: ±2°C

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:

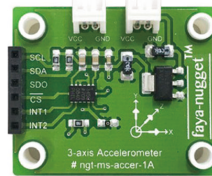
- Operating voltage: 5VDC
- Operating current: 145µA
- Standby current: 0.1µA
- Bandwidth: 1600Hz Max.
- Interface: SPI/I²C
- Measurement range: ±2g / ±4g / ±8g / ±16g
- Operating Temp.: -40°C to +85°C

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
- Industrial instrumentation
- Personal navigation devices
- Hard disk drive (HDD) protection
- Fitness equipment


RH10152

Temperature sensor module

Specifications:

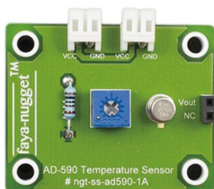
- Operating voltage: 5VDC
- Linear current output: 1µA/K
- Temp. range: -55°C to +150°C
- Two terminal device: Voltage in / current out
- Sensor isolation from case

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:

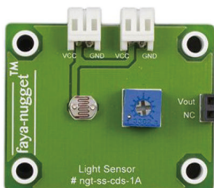
- Operating voltage: 5VDC
- Voltage: 150VDC Max.
- Power dissipation: 125mW
- Operating Temp.: -25°C to +75°C
- Peak spectral response: 570nm

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:

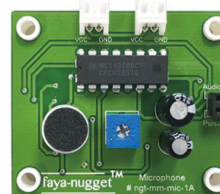
- Operating voltage: 5VDC
- Ranging distance: 0 ~ 500cm
- Input frequency: 500Hz ~ 40kHz
- S/N Ratio: 40dB or more
- Input sound pressure: 120dB SRL Max.
- Output model: Digital output (high / low level)

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:

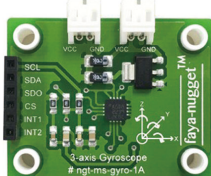
- Operating voltage: 5VDC
- Operating current: 6.1mA
- Power down current: 5µA
- Vlogic voltage: 1.71V ~ VDD+0.1
- Scale range: ±250/±500/±2000dps
- Sensitivity: 8.75 / 17.5 / 70 mdps/digit
- Digital output data rate: 100 / 200 / 400 / 800Hz

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:

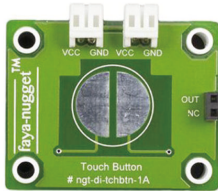
- Operating voltage: 5VDC
- Output: Active - high
- Touch resistance: <math><4M\Omega</math>

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:

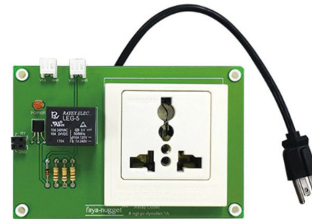
- Operating voltage: 5VDC
- Nominal current: 72mA
- Input voltage: 110 ~ 240VAC
- Resistance: $70\Omega \pm 10\%$
- Contact arrangement: 1NO1NC
- Relay input: High / low

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:

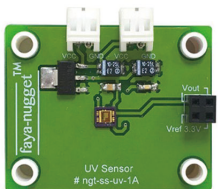
- Operating voltage: 5VDC
- Output voltage: 0.95 ~ 1.05VDC
- Operating current: 300 μ A
- Standby current: 0.1 μ A
- Response wavelength: 365nm
- Operating Temp.: -20 to +70 $^{\circ}$ C

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:

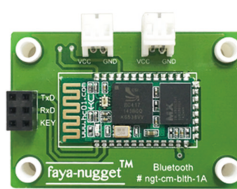
- Operating voltage: 5VDC
- Protocol: Bluetooth V2.0 + EDR
- Default baud rate: 9600 bps
- Default state: Slave mode
- RF transmit power: +4dBm
- Sensitivity: -80dBm

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 ~ 14 μ m
- Transmittance: $\geq 75\%$
- Output signal: $\geq 3500mV$
- Output balance: <math><10\%</math>
- Sensitivity: $\geq 3300V/W$
- Operating Temp.: -30 $^{\circ}$ C to +70 $^{\circ}$ C

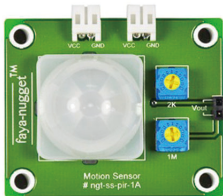
Features:

- 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:

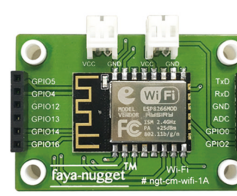
- Operating voltage: 5VDC
- Operating current: 80mA Avg.
- Protocol: 802.11 b/g/n
- Frequency range: 2.4G ~ 2.5GHz
- Default baud rate: 115,200
- Default state: Slave mode
- Operating Temp.: -40 $^{\circ}$ C to +125 $^{\circ}$ C

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:

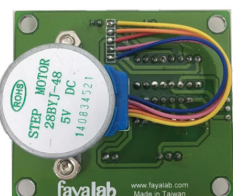
- Operating voltage: 5VDC
- Number of phase: 4
- DC resistance: $50\Omega \pm 7\%$
- Stride angle: 5.625 $^{\circ}$ /64
- Pull-in torque: 300 gf-cm
- Insulated electricity power: 600VAC/1mA/1s

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:

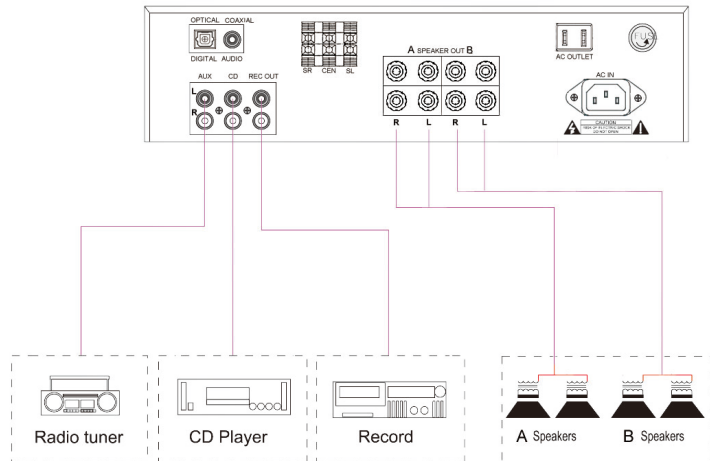
- 51 / AVR / ARM and other platforms
- Necessary part for robot design and development



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



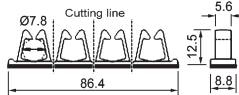
Power output	250W + 250W(Max.)
Inputs	Mic.x2, Audio.x2, Optical/Coaxial.x1
Microphones	1k Ω / 25mV
Music sources	CD / 47KΩ / 200mV, TUNER / 47KΩ / 200mV Bluetooth, MP3, REC. out
Frequency response	20Hz to 20000Hz (+3dB/-3dB)
Signal to noise ratio	75dB / all channels off
Distortion	less than 0.7% at rated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

SG57185

Multiple wire clip (20 pcs/bag)
Max. bundle Dia. 7.8mm



Break into pieces needed
along the cutting line

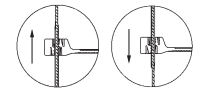


SG57305

Two way cable tie (100 pcs/bag)
Special design allows tie
to insert from either side
of the head to lock.

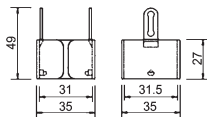


Both sides insertable



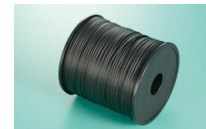
SG57275

Modular cable holder (15pcs/box)
Color : black white brown
yellow blue silver

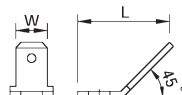


SG57385

Twist tie (400M/reel)
Color : black white



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

SM7245A /B /D /F**SM7247C /D**

AC cooling fan power cord (free end)

A: 300 mm

B: 600 mm

C: 900 mm

D:1000 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 : ±5%
- Operation Temp. : 10°C ~ 40°C
- Storage Temp. : -15°C ~ +60°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 : ±35V (measured 10cm in front of unit)
- Air flow : 0.3m³/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 ~ ±1.5KV / High 1 ~ ± 22.00KV (Auto-switch between low&high)
- Ion balance testing range : 0 ~ ±220V
- Measure distance : 25 mm (±0.5 mm)
- Accuracy : ±10%
- Waiting current : <3 Ua
- Working current : <15 mA
- Environment : 0°C ~ 50°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 : ±35V (measured 15cm in front of unit)
- Air flow : 1.6m³/min
- Effective area : 300 x 600 mm
- Dimension : 104 x 50 x 140 mm
- Weight : 620g

SN738764
AC fan ionizer



Features

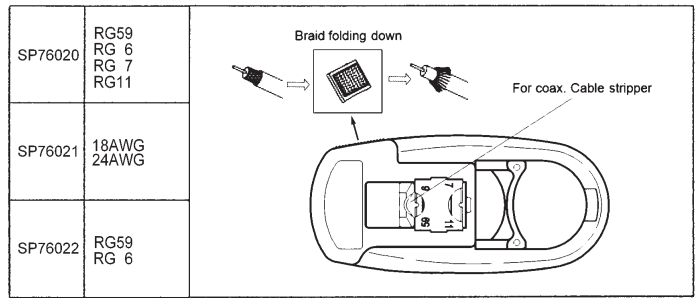
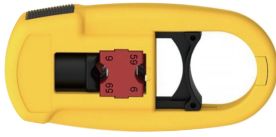
- Rapidly neutralizes static charges
- Ion balance adjustable
- Covers an extended area with ionized air
- Variable speed fan with wide range of air flow
- Low wattage heater for operator comfort
- Built-in ion emitter cleaner
- Bench stand or optional pedestal mount with 360° adjustability
- Durable,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

Specification

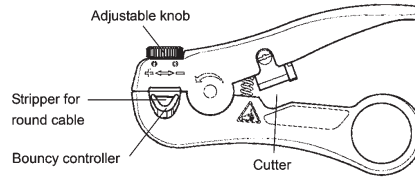
- Input voltage : 110~220VAC
- Ion generation : High frequency corona discharge (around 68KHz)
- Power : 20W
- Ion balance : ±10V (measured 30cm in front of unit)
- Air flow : 2.4m³/min
- Effective area : 400 x 1500 mm
- Dimension : 140 x 84 x 220 mm
- Weight : 2600g

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

2 blades model



4.4" Stripping tool
SP7606

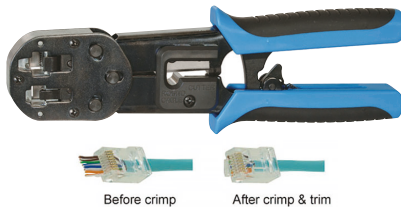


Function :

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



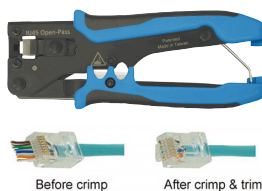
SP76238

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



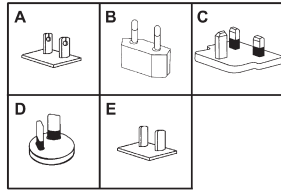
SP76239

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

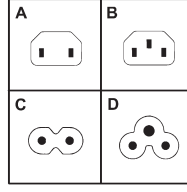


Medical power supply
SQ8070 x x (**SQ8070~SQ8079**)
 Output voltage
 AC input
 Item No.

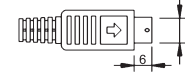
AC input (**SQ8070~SQ8075**)



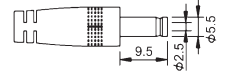
AC input (**SQ8076~SQ8079**)



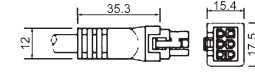
DC output (**SQ8077**)
 12V&15V (4P DIN)



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



Universal USB/A type adaptor
SQ80013 x



- Supports fast charging protocol.
- Surge, overcharging, overcurrent, overvoltage and overheating protection.
- Built-in intelligent IC to automatically identify devices.
- Suitable for mobile phones, tablets, consoles, and notebooks.



Specification:

Code	A	B	C
AC plug	US	EU	UK
Input voltage	100~240VAC (1.5A Max.)		
Input frequency	50/60Hz		
USB ports	USB/C type socket x 2, A type socket x 1		
Output power	65W Max.		
USB/C output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A (65W Max.)		
USB/A output	5V/4.5A, 9V/3A, 12V/2.5A (30W Max.)		
Safety standard	CE /FCC		



SQ80017
Universal USB/A type adaptor

- With safety shutter of universal socket.
- Plug pins can be changed freely according to different area.
- Suitable for mobile phones, digital camera, MP3 player, iPad and iPhone.



Specification:

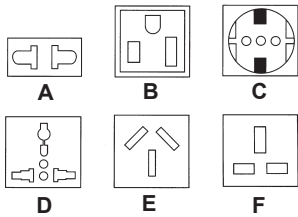
Input voltage	100~240VAC
Input frequency	50~60 Hz
Output current	2 USB ports: 2.1A 5VDC AC Outlet: 10A 250VAC or 2500W Max.
Withstand voltage	1250VAC
Safety standard	CE
Suitable area	125V: Taiwan, Japan, U.S.A., Canada 250V: Hong Kong, Singapore, Philippines, China, Malaysia, Thailand, E.U., Australia, New Zealand, U.A.E., England, Russia, South america



SQ81165 x (SQ81165 ~ SQ81175)



AC output :



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

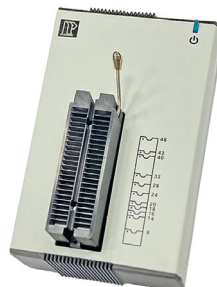
SQ81175A /B /C /D /E /F
2500W 12V DC to AC inverter
W/Bluetooth & 2 x USB QC3.0

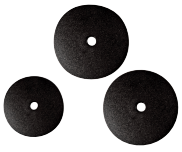


ST82202
Pocket universal programmer

- 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



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	
Weight	9.4g	5.6g

ST80010A / B / C 125KHz RFID proximity token tag
ST80012 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

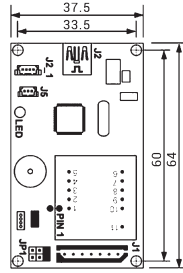
ST80027
 13.56MHz RFID keychain tag


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



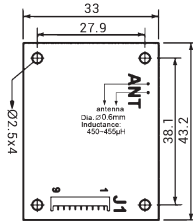
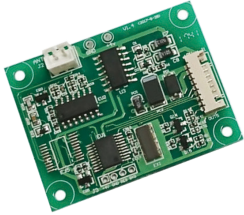
Features

- 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 ±10% @ 5VDC
- Operating current: 40mA ±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

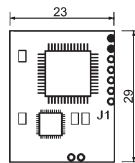
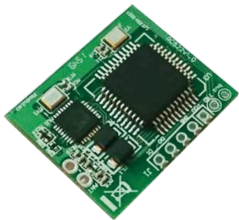


It is ultra-low power modules designed to operate from 4V to 9V. At its lower power setting it consumes just 15µA making these modules the perfect low power alternative to conventional readers. The modules support Wiegand 25~40 data formats and able to read H.I.D. or compatible cards and ideal for fixed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

Specifications

- Power input: 4V ~ 9VDC
- Reading range: 30mm @ 4VDC
35mm @ 9VDC
- Standby current: 10 ~ 15µA
- 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.

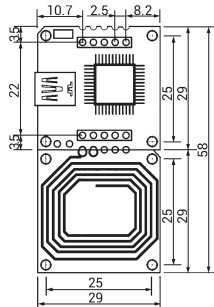
Features

- 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 ±10% @ 5VDC
- Operating current: 65mA ±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



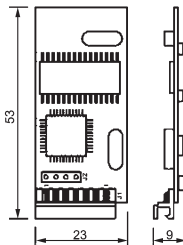
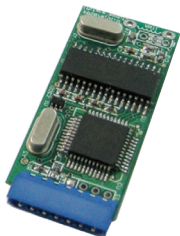
Features

- 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 ±10% @ 5VDC
- Operating current: 50mA ±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



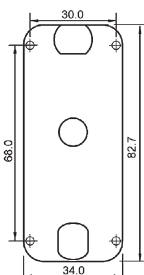
Features

- 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: $\leq 1\text{mVrms} / \leq 2\text{mArms}$
- Transient response time: $\leq 100\mu\text{s}$
- 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

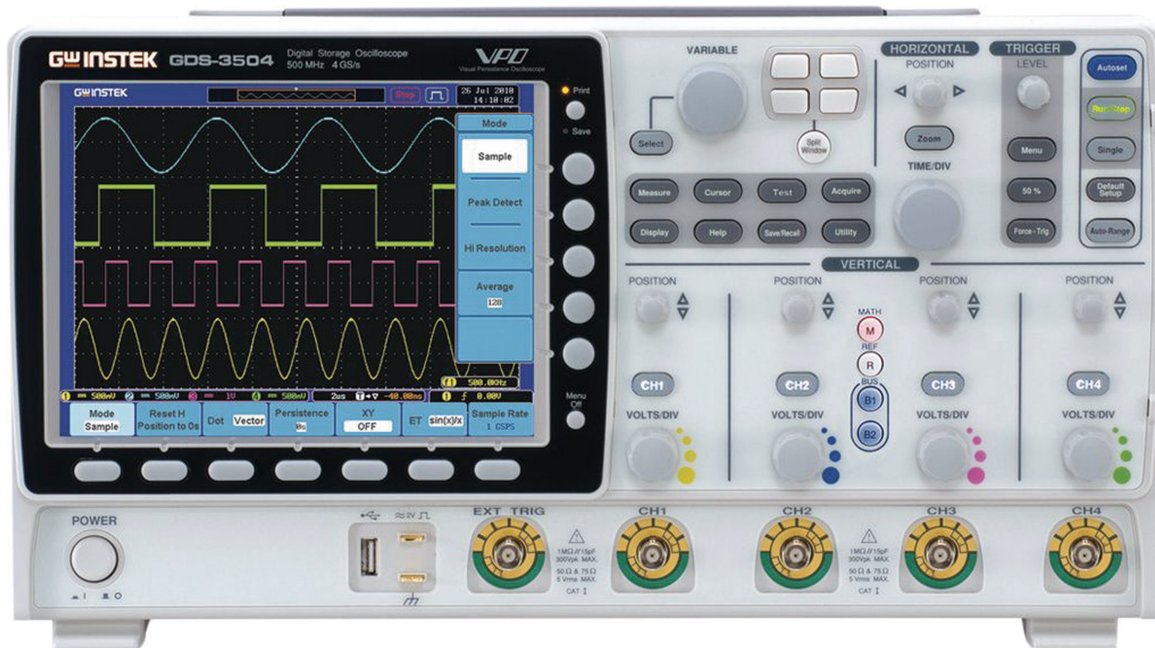


Item No.	ST84102	ST84104	ST84106	ST84108
Capacity	1000VA / 600W	1500VA / 900W	2KVA / 1200W	3KVA / 1800W
Input voltage	110 / 115 / 120VAC or 220 / 230 / 240VAC			
Output voltage	110 / 115 / 120VAC or 220 / 230 / 240VAC $\pm 10\%$			
Output waveform	Simulated sine-wave			
Output transfer time	< 4ms			
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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