

50th
Anniversary



台成商事股份有限公司
D.S. Trading of Taiwan Co.,Ltd.

成立於西元1974年，
松下電工(Panasonic)歷史悠久的代理店，
多年來致力於電子零組件的銷售，
整合上下游並結合市場需求，
延伸出更多元化、客製化的經營模式。

除了有效快速的供應客戶主動及被動元件之外，
更期待給客戶全方位的解決方案。

衷心感謝多年來的舊雨新知與本公司共存共榮、持續成長。

☎ 02-2557-8518

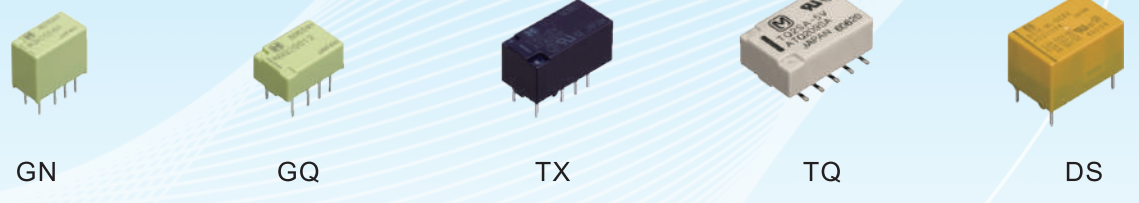
☎ 02-2557-2218

🌐 www.dst.com.tw

✉ sales@dst.com.tw

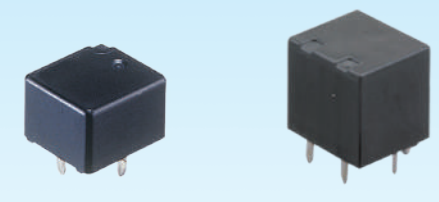
📍 103台北市大同區重慶北路三段139號6樓之1

▶ Signal Relays



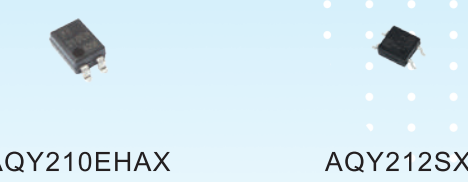
GN GQ TX TQ DS

▶ Automotive Relays



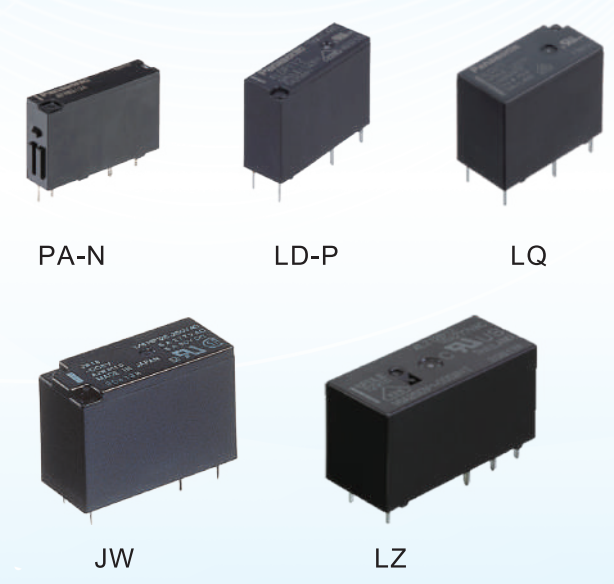
CP1-12V ACJ2112

▶ PhotoMOS



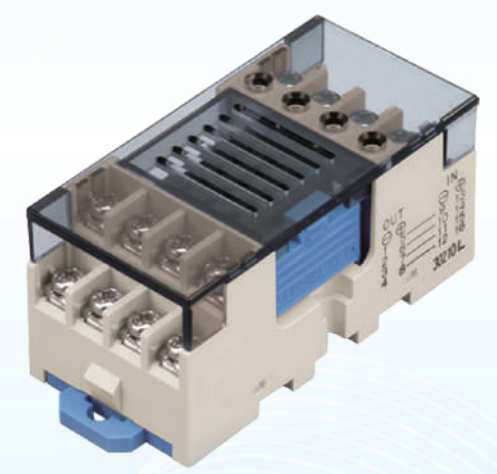
AQY210EHAX AQY212SX

▶ Power Relays



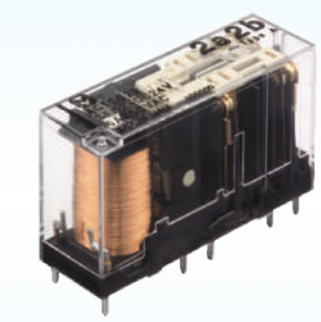
PA-N LD-P LQ JW LZ

▶ RT-3 Unit Relay 4-Point Terminal

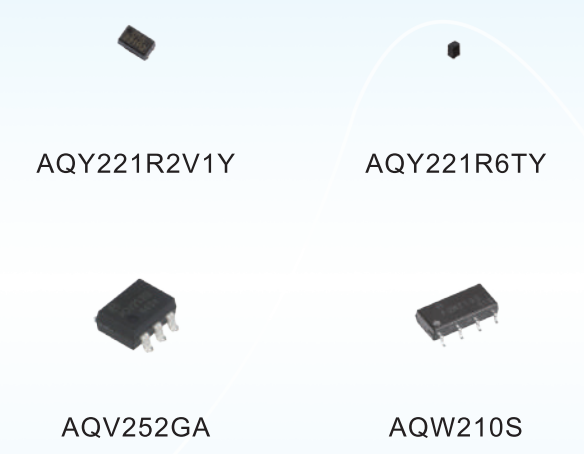


RT3SN-24V

▶ Safety Relays

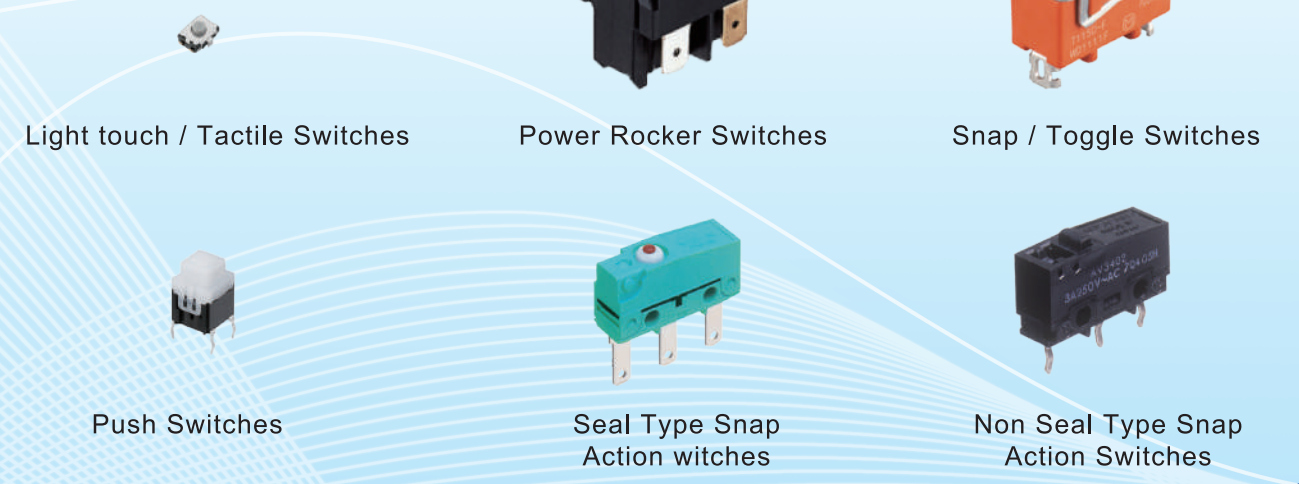


SFS2-DC24V



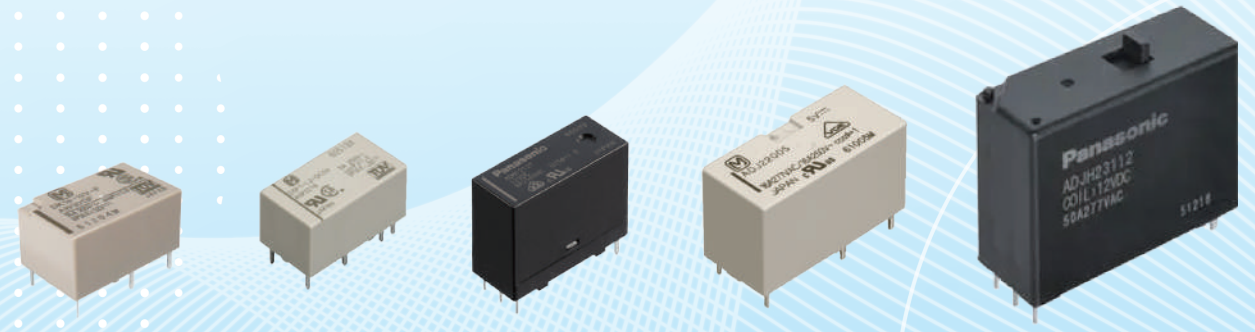
AQY221R2V1Y AQY221R6TY AQV252GA AQW210S

▶ Switches



Light touch / Tactile Switches Push Switches Power Rocker Switches Seal Type Snap Action switches Snap / Toggle Switches Non Seal Type Snap Action Switches

▶ Polarized type Power Relays (with Latching)



DK DS-P DW DJ DJ-H

▶ PaPIRs 🔍



▶ Polymer 🔍



▶ Capacitor 🔍



▶ Connectors 🔍



Automotive Connectors



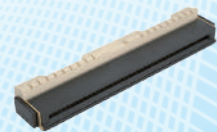
High Frequency 5G Connectors



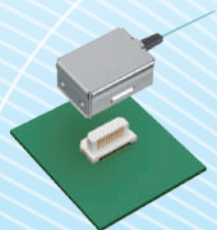
Narrow (Fine) Pitch Connectors



High Current Connectors

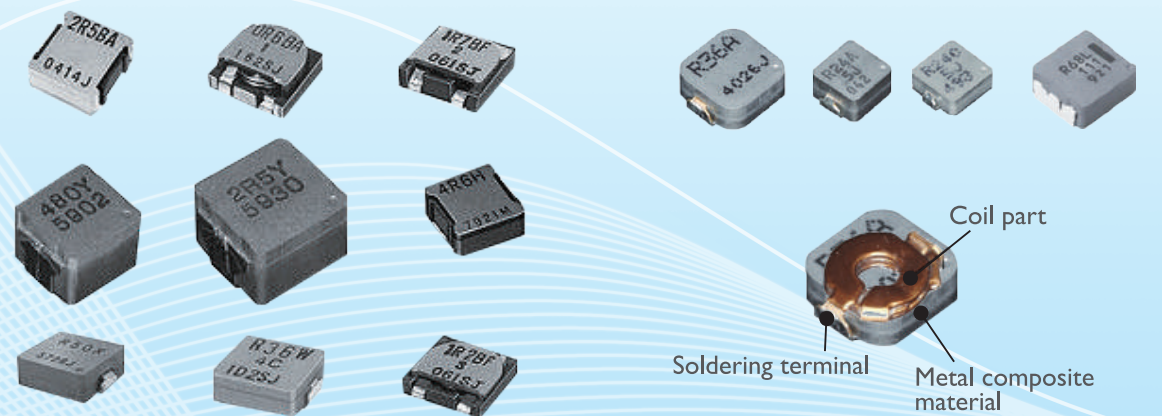


FPC/FFC Connectors



Active Optical Connectors

▶ Inductor 🔍



HE-R Series General Power Relays

Ordering information

AHER

• Contact arrangement/Operating function
 1 : 2 Form A, Single side stable
 2 : 2 Form A 1 Form B, Single side stable
 3 : 4 Form A, Single side stable
 4 : 4 Form A 1 Form B, Single side stable

• Contact type
 1 : Standard type
 (4 Form A/4 Form A 1 Form B)
 2 : High capacitive type
 (2 Form A/2 Form A 1 Form B)

• Terminal shape
 8 : PC board terminal,
 Cover shield type
 (2 Form A/2 Form A 1 Form B)
 9 : PC board terminal
 (4 Form A/4 Form A 1 Form B)

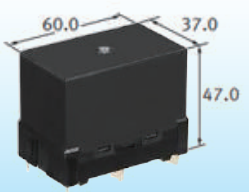
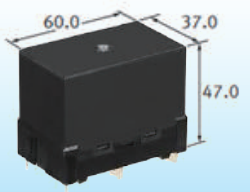
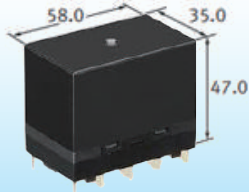
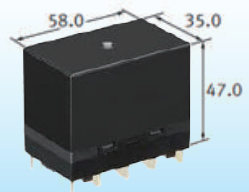
• Rated coil voltage (DC)
 Part number | 1 | 2
 Rated coil voltage (V) | 12 | 24

(Note) Please contact us for other coil voltages.

Contact arrangement

2 Form A (2a)	2 Form A 1 Form B (2a1b)	4 Form A (4a)	4 Form A 1 Form B (4a1b)
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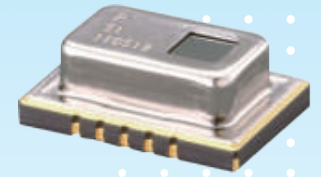
Product Appearance

Features

1. **High-capacity**
 - 2 Form A/2 Form A 1 Form B:
70 A 277 V AC 30 x 103 ope. Max. switching current 80 A
 - 4 Form A/4 Form A 1 Form B:
40 A 480 V AC 30 x 103 ope. Max. switching current 50 A
2. **Welding detection function: Mirror contact mechanisms (Compliant with IEC60947-4-1)**
3. **PCB Terminals**
4. **Low operating power: 4.0 W (Holding power 0.49 W)**
5. **Contact gap: Min. 3.6 mm**
6. **Short circuit capability**
 - 2 Form A/2 Form A 1 Form B:
I_{rms} = 5 kA (Compliant with UL508)
 - 4 Form A/4 Form A 1 Form B:
I_p = 2.6 kA I²t = 6.5 kA²s (Compliant with IEC62955)

Infrared Array Sensor Grid-EYE Surface Mount Type AMG88xx (High performance type)



Ordering information

AMG 8 8

• Vertical pixel
8 : 8 pixels

• Horizontal pixel
8 : 8 pixels

• Applied voltage
3 : 3.3 V.DC
5 : 5 V.DC

• Applied voltage
3 : High gain
4 : Low gain

Features

- Temperature detection of two-dimensional area: 8 x 8 (64 pixels)
- Digital output (capability of temperature value output)
- Compact SMD package (adaptively to reflow mounting)
- RoHS compliant

Typical applications

- Home appliances (Microwaves and air-conditioners)
- Building automation (People counting, Air conditioning control)
- Home automation (People detection)
- Factory automation (Fault prevention)

Types

Product name	Number of pixel	Operating voltage	Amplification factor	Part number	Tape and reel package (pcs)
Infraed array sensor Grid-EYE	64 (Vertical 8 x Horizontal 8 Matrix)	3.3 V	High gain	AMG8833	1000
			Low gain	AMG8834	
		5.0 V	High gain	AMG8853	
			Low gain	AMG8854	

Rating

Item	Performance	
	High gain	Low gain
Applied voltage	3.3 V ± 0.3V or 5.0V ± 0.5V	
Temperature range of measuring object	0°C to 80°C +32°F to +176°F	-20°C ~ 100°C -4°F to +212°F
Operating temperature range	0°C to 80°C +32°F to +176°F	-20°C ~ 80°C -4°F to +176°F
Storage temperature range	-20°C to 80°C -4°F to +176°F	-20°C ~ 100°C -4°F to +176°F



▶ 類比(Analog)

▶ 數位(Digital)

常用型 General Purpose Dual	無方向性 Omni-directional Quad	大窗口常用型 Wide Field Of View
RE200B (KP500B-P)	RE46B	RE03B (KP506B)
視野角 FOV		
外形尺寸 Dimensions Drawing (mm)		
等價電路 Equivalent Circuit		
用途 Applications		
自動照明開關 防盜警報用入侵探測器 玩具	防盜警報用入侵探測器 (吸頂式) 自動照明開關	防盜警報用入侵探測器 自動照明開關

雙元型 Dual	雙元型 Dual	雙元型 Dual	雙元型 Dual
P923MP	P924MP	P924M-S	P926M
視野角 FOV			
外形尺寸 Dimensions Drawing (mm)			
管腳定義			
1-VDD 2-REL 3-VSS	1-VSS 2-ONTIME 3-VDD 4-REL	1-VSS 2-SENS 3-VDD 4-REL	1-ONE 2-SENS 3-ONTIME 4-REL 5-VSS 6-VDD
設置項目			
靈敏度國值SENS 120μV	靈敏度國值SENS 120μV	靈敏度國值SENS 49-462μV 128分檔可調	靈敏度國值SENS 49-462μV 128分檔可調
延時時間ONTIME 典型值2.3秒	延時時間ONTIME 2.3-4793秒16分檔	延時時間ONTIME 典型值2.3秒	延時時間ONTIME 2.3-4793秒16分檔可調
環境照度使能OEN 無視OEN	環境照度使能OEN 無視OEN	環境照度使能OEN 無視OEN	環境照度使能OEN 國值VIL:0.6V VIH:1.0V



數位(Digital)

C624M	P903BP	H923SP
視野角 FOV		
外形尺寸 Dimensions Drawing (mm)		
管腳定義		
1-INT/DOUT 2-VDD 3-SERIAL_IN 4-GND	1-VDD 2-VOUT 3-GROUND	1-VDD 2-VOUT 3-GROUND
設置項目		
靈敏度閾值SENS 120μV	靈敏度閾值SENS 120μV	靈敏度閾值SENS 120μV
延時時間ONTIME 典型值2.3秒	延時時間ONTIME 典型值2.3秒	延時時間ONTIME 典型值2.3秒
環境照度使能OEN 無視OEN	環境照度使能OEN 無視OEN	環境照度使能OEN 無視OEN

人到燈就亮，不摸黑最安全 / 人離燈就熄，不浪費最節能



名稱	人體感應燈座(嵌燈式)	
型號	DST-101	DST-102
外觀		
規格		
適用電壓	AC110/220V 50/60HZ	
最大負載	1.35A/0.75A(100° C)	
感應角度	左右130° 上下90° (25° C)	
耗電量	AC220V/24mA ; AC110V/12mA	
感應距離	8公尺(25° C)	
情境控制	暗黑時感應	無關亮度，全天候感應
亮燈時間	短：15秒、中：60秒、長：180秒	
產品尺寸	29*5.6*7.5cm	
產品重量	86g	
特點		
<ol style="list-style-type: none"> 1. 全國唯一有高溫斷電專利，以防止燈具內溫度過高而造成危險。待降溫後，即可恢復功能 2. DIY型，機體為防火材質，耐高溫，抗強光及回潮 3. DST-101有日間光控感應功能，光線充足或白天時，可判斷不亮燈 4. 適用於任何E27型螺旋燈座，如鎢絲燈、省電燈及LED燈 5. 使用40W燈泡、23W省電燈及LED燈 6. 通過日本JET及CE認證 		
注意事項		
<ol style="list-style-type: none"> 1. 斷電回溫區會依溫度下降速度，影響到啟動點，期間人員務必離開感應區 2. 本產品適用於室內，請勿安裝於屋外 3. 安裝位置應遠離強光直射、冷氣口或高溫機器，以減少錯誤動作 4. 請勿超過負載及受潮 		
適用場所	樓梯、地下室、廁所、玄關等場所	

PIR SENSOR- Lighting control sensors



DS-PLC001

Light Sensor
PIR motion sensor
Detection Angle (°): 100
Detection diameter (m): 5
Lux, Meter, adjustable
Dimension: 76x58x62mm



DS-PLC004

Light Sensor
PIR motion sensor
Detection Angle (°): 100
Detection diameter (m): 5
Lux, Meter, Time adjustable
Dimension: 100x100x70mm



DS-PLC002

Light Sensor
PIR motion sensor
Detection Angle (°): 100
Detection diameter (m): 5
Lux, Meter, Time adjustable
Dimension: 100x100x40mm



DS-PLC005

Light Sensor
PIR motion sensor
Detection Angle (°): 100
Detection diameter (m): 5
Lux, Meter, adjustable
Dimension: 108x108x42mm



DS-PLC003

Light Sensor
PIR motion sensor
Detection Angle (°): 100
Detection diameter (m): 5
Lux, Meter, Time adjustable
Dimension: 72x72x40mm



DS-PLC006

Light Sensor
PIR motion sensor
Detection Angle (°): 140
Detection diameter (m): 7
Lux, Meter, adjustable
Dimension: 100x100x50mm

Analog Force Sensor GMFS02

General Description

GMFS02 is an analog force sensor especially designed for consumer applications like touch panels, seamless buttons, and smart shoes. It is housed in a compact 2.5×2.1×1.15 mm³ package. The force sensor is based on the industry-recognized piezo-resistive technology featuring long-term stability and EMC robustness.

Features

- Operation range:
 - Force: 0~10N
 - Temperature: -40~+85°C
- Sensitivity:
 - 0-5N: 46mV/V/N
 - 5-10N: 30mV/V/N
- Supply Voltage:
 - VDD: +1V ~ +5V
- RoHS-compliance package:
 - LGA-4L package
 - Footprint: 2.5 × 2.1 mm²
 - Height: 0.8 mm ; 1.15 mm at force point

3-axis Digital MEMS Accelerometer CMA307

General Description

CMA307 is a tri-axis ±2g, ±4g or ±8g silicon accelerometer with digital I²C interface. It is a capacitive MEMS sensor featuring, compensation for 0g offset and gain errors, and conversion to 12-bit digital values based on user configurable samples per second.

Features

- Supply Voltage: 1.7V ~ 3.6V
- Temperature Range: -40~85°C
- 2x2x1 mm LGA-12
- ADC: 12-bit
- Measurement Range: ±2, ±4, ±8g
- Sensitivity:
 - 1024 LSB/g @ ±2g
 - 512 LSB/g @ ±4g
 - 256 LSB/g @ ±8g
- 0g offset: ±100 mg @3-axis
- Support I2C interface

Digital Barometric Pressure Sensor GMP102

General Description

GMP102 is a digital barometric pressure sensor especially designed for applications requiring highly-precision pressure measurement. It is both a pressure and temperature sensor housed in a compact 2.0×2.5×1.05 mm³ package. The pressure sensor has a wide operating range from 300 to 1100hPa that covers all surface elevations on earth.

Features

- Operation range:
 - Pressure: 300~1100hPa (Absolute)
 - Temperature: -40~+85°C
- Supply voltage:
 - VDD: +1.7V ~ +5.5V
 - VID: +1.2V ~ +5.5V
- Built-in 24-bit ADC:
 - Pressure resolution: up to 0.018Pa
 - Temperature resolution: up to 0.004°C
- Power Consumption:
 - Standby: 0.1uA
- Digital interface:
 - I2C: standard and fast modes
 - SPI: 3-/4-wire, up to 10MHz clock
- RoHS-compliance package:
 - 8-pin LGA with metal lid
 - Footprint: 2.0 × 2.5 mm²
 - Height: 1.05 mm.

Digital Waterproof Barometric Pressure Sensor CMP202

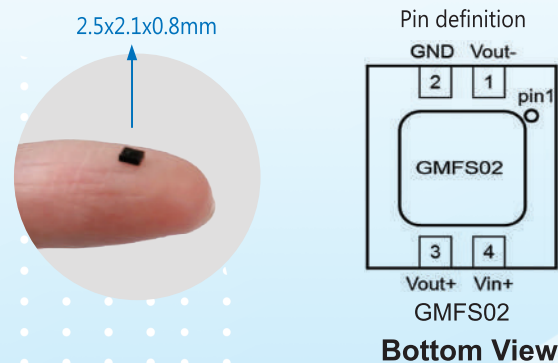
General Description

CMP202 is an ultra-compact hermetic-sealed digital barometric pressure sensor with water-resistance package especially designed for outdoor applications requiring precise pressure measurement. The water-resistance package includes the gel for protecting the electrical components from water and the stainless steel cap for better ESD robustness.

Features

- Operation range:
 - Pressure: 300~1250hPa (Absolute)
 - Temperature: -40~+85°C
 - 10ATM water resistance
- Supply voltage:
 - VDD: +1.8V ~ +3.3V
 - VID: +1.8V ~ +3.3V
- Built-in 24-bit ADC:
 - Pressure resolution: up to 0.015Pa
 - Temperature resolution: up to 0.1°C
- Power Consumption:
 - Standby ~ 1.2uA
- Digital interface:
 - I2C: standard and fast modes
 - SPI: 3-/4-wire, up to 10MHz clock
- RoHS-compliance package:
 - Hermetic-sealed package
 - Footprint: 2.7 × 2.7 mm²
 - Height: 1.74 mm.

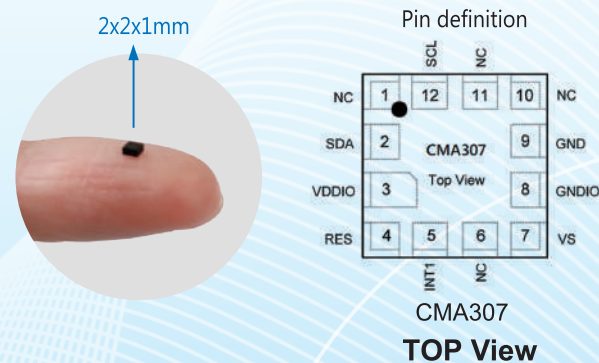
Product Appearance



Applications



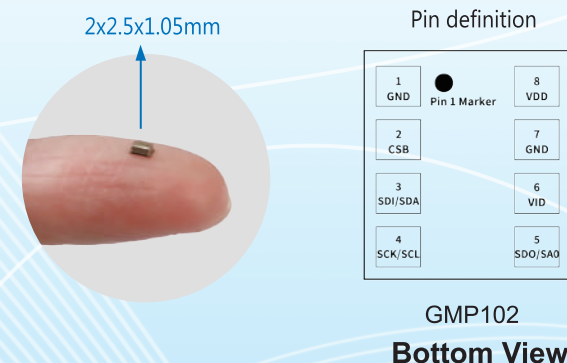
Product Appearance



Applications



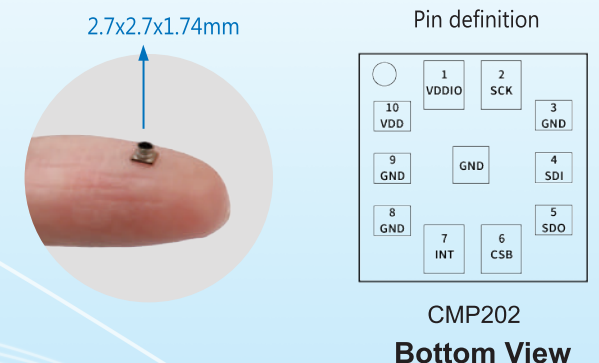
Product Appearance



Applications



Product Appearance



Applications



▶ Industrial Relays 🔍



RS35-3022-25-1012



RS50-3022-25-1012



RS80-3021-25-1024

▶ General Purpose Relays 🔍



RA1



RA5



RB-1P

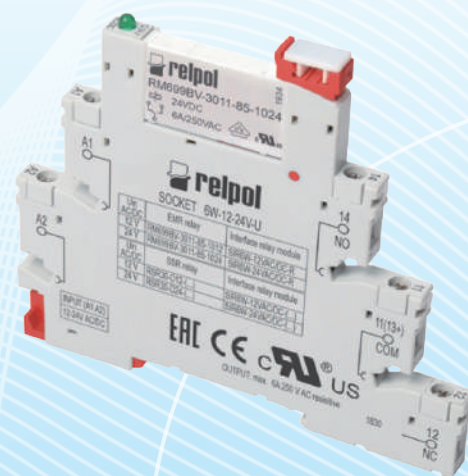
▶ Miniature PCB Power Relays 🔍



RM12-2011-35-1012



RM51-3021-85-1012



SIR6W-24VDC-R

▶ Industrial Relays 🔍



RM1E-1P

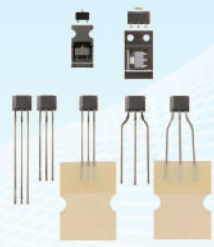


RL-2PV



RSC

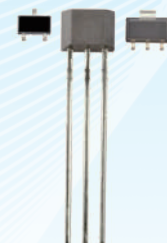
▶ Magnetic Sensors



Linear and Angle Sensor ICs



Magnets - MG Series



Bipolar Position Sensor ICs



Value-added Packaged Sensors

▶ Particulate Matter Sensors

HPM Series

Standard



Compact



FEATURES

- Laser-based light scattering particle sensing
- Concentration range: $0\mu\text{g}/\text{m}^3$ to $1,000\mu\text{g}/\text{m}^3$
- Fully calibrated
- EMC: Heavy industrial level IEC61000
- Response time: $<6\text{ s}$
- Supply current: 80 mA max.
- Output signal: UART (Universal Asynchronous Receiver/Transmitter)
- PM2.5 output (PM10 output optional)
- RoHS compliant
- REACH compliant

▶ Board Mount Pressure Sensors

Basic ABP2 Series

High Accuracy, Compensated, Amplified, 6 mbar to 12 bar - 600 Pa to 1.2 MPa - 2 inH₂O to 175 psi, Digital or Analog output, Liquid media capable, With a food grade certification



▶ Miniature Basic Switches



V15W2



V15W



V19



V15



V7



V3

▶ Industrial Pressure Sensors

MIP Series

Configurable Media Isolated Pressure Sensor. Amplified Analog (Voltage ratio-metric, voltage regulated and Current) and Digital outputs. As low as $\pm 0.75\%$ FSS TEB. Absolute, sealed gage. Stainless steel. 1 bar to 70 bar | 15 psi to 1000 psi



Applications



Presence Detection
Ensures door latching and safe operation



Float Switch
On/off power to stop overflow conditions



Flow Switch
Enables safe and efficient water usage

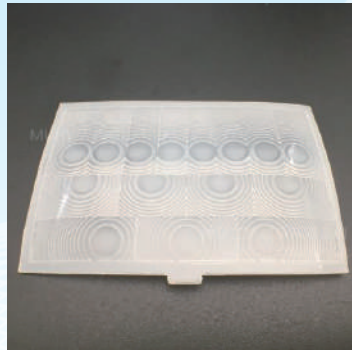


Power Switch
Reliable system control for motors, pumps, fans



Operator Controls
Interface control for system auxiliary functions

► **PIR Lens**



Fresnel Lens Array / 全菲涅爾透鏡陣列



Dot Type Lens Array / 豆粒狀透鏡陣列



Fresnel Lens and Dot Type Lens Combined Array / 菲涅爾及豆粒組合陣列

► **客製化PIR Lens設計**

沐華提供客製化服務，依據客戶偵測角度、配合產品外觀需求，每年為客戶設計開發超過100套客製規格鏡片，每個鏡片設計週期小於兩個月。



MH 沐華 PIR LENS 設計要項/Key Design Elements of Muhwa PIR Lens

I. 安裝、使用要求/ Installation and Use Requirements

1. 安裝/ Well mounted (圖/Figure 1), 吊頂/ Ceiling mounted (圖/Figure 2)

註：壁掛安裝與吊頂安裝方式的鏡片設計思路是不同的/Note: The lens design idea differs for the wall mounting and ceiling mounting modes.

2. 安裝高度多少米? / What is the installation height? _____米/m

註：如圖1或圖2的A處，不同的安裝高度偵測結果是不同的 / Note: As indicated by position A in Figure 1 or Figure 2, the detection result varies with the installation height.

3. 壁掛時產品傾斜多少角度? / What is the tilt angle when the product is mounted to the wall? _____度/degrees

註：如圖1之B，傾斜角度會影響偵測效果，如距離/Note: See B in Figure 1. The tilt angle affects the detection effect, e.g., the distance.

4. 背景溫度(標準為25°C) / (The standard temperature is 25°C)

註：背景溫度會影響偵測效果，溫度越高偵測距離越短/ Note: The background temperature affects the detection effect. The higher the temperature, the shorter the detection distance.

II. 結構參數/ Structural Parameters

1. Sensor 數量 / What is the number of sensors? _____只

各自擺放位置及角度 / What is their arrangement positions and angles? _____度/degrees

→ 請提供 3D 圖紙或傳真樣品 / Please provide 3D drawings or samples with lines.

2. Sensor 傾斜角度為多少? / What is the tilt angle of sensor? _____度/degrees

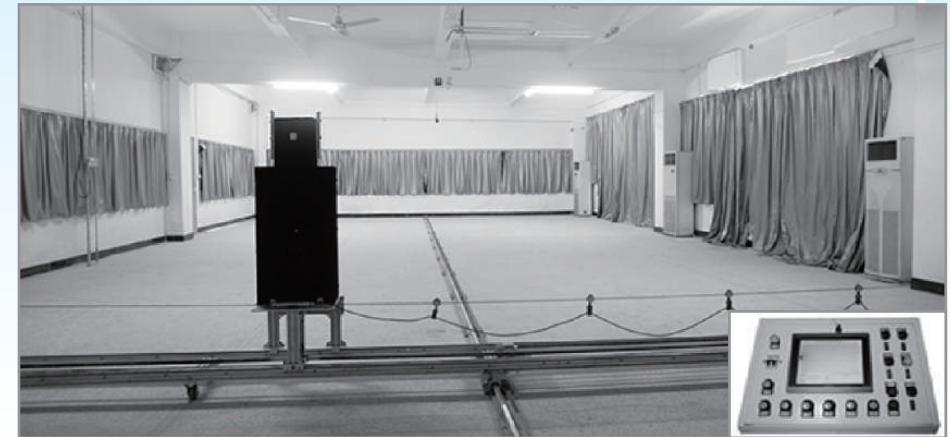
或/Or 由沐華設計 / designed by Muhwa (圖/Figure 3)

3. 焦距為 / The focal length is _____mm 或/Or _____設置圖需客供外觀圖紙/Measured according to the actual shell provided by the customer.

→ 請提供 3D 圖紙或傳真樣品 / Please provide 3D drawings or samples with lines.

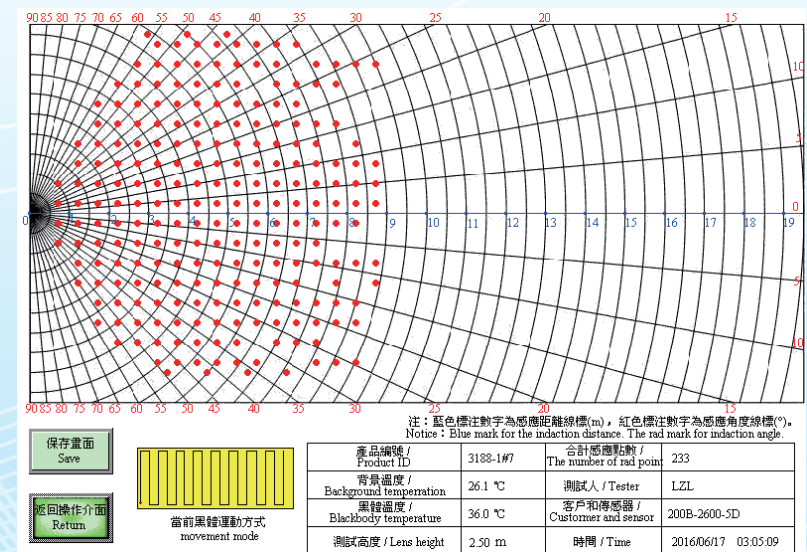
► **Automatic Test Field**

我司自行開發設計業界第一套全溫控環境，(紅外感應)全自動化測試及記錄系統，能夠對我司開發的鏡片及客戶的感應器產品做一完整的測試並提供完整詳實的測試報告。



► **Test Report and Analysis**

依據能量測試及自動現場測試的結果與報告做出對鏡片功能的分析與改善，或對客戶產品提供分析研判，做出改善的建議。



沐華PIR紅外感應測試系統 注：藍色標注數字為感應距離線標(m)，紅色標注數字為感應角度線標(C)。

► **Overvoltage Protection Components** 🔍

► **Wireless Antenna Solutions** 🔍



TVZ Series

Thermally Protected Ceramic Metal Oxide Varistors



WPZ25S Series

Thermally Protected Varistors



EVTC Series

Thermally Protected Varistors



EV Series

Ceramic Metal Oxide Varistors



VZ Series

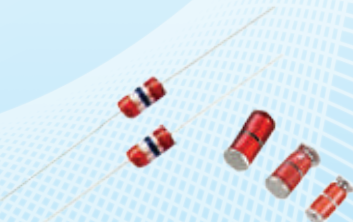
Ceramic Metal Oxide Varistors



Surface Mount Varistor Series



Gas Discharge Tubes



Spark Gap Protectors



TVS Diodes



AMI/AMR Antennas & Isolation Couplers



Access Point Infrastructure



MIMO Antennas



Wall and Ceiling Mount



Low Profile Body Mount



Stubby Whips & Dipoles



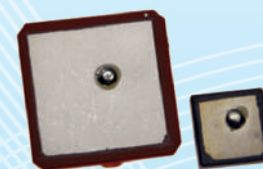
4G/LTE/3G/ISM Embedded SMD Style



Miniaturized Multi-band Embedded



Body Mount / Mag Mount Vandal Resistant

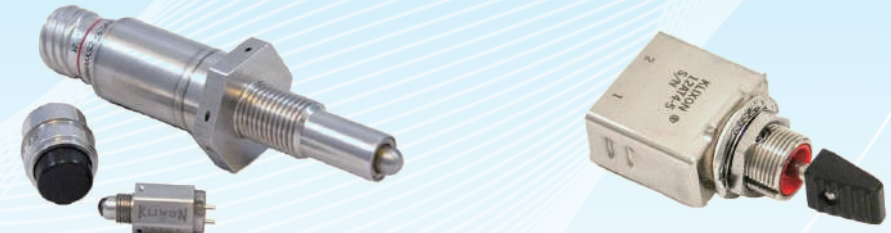


GPS/GLONASS Patches and Active Modules



High Gain Omni Directional

▶ 3AT / 4AT / 12AT Switches 🔍



crydom

▶ Panel Mount DC Output SSRs



▶ DIN Rail Mount AC Output SSRs



▶ Plug-in AC & DC Output SSRs



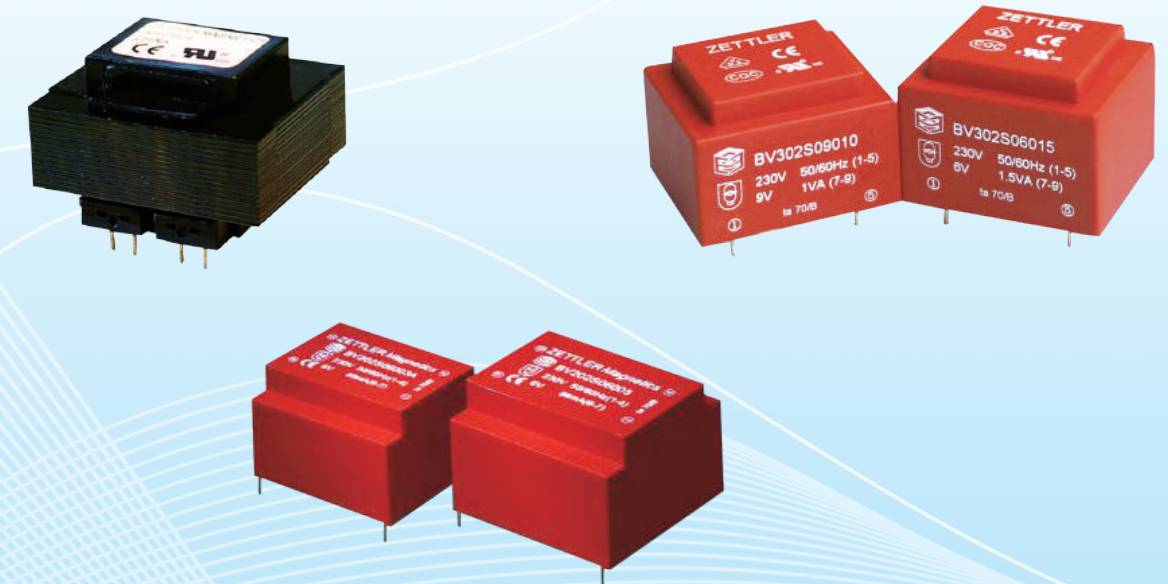
▶ PCB Mount AC Output SSRs



▶ Thermostats 🔍



▶ Transformers 🔍





CNC銑床(綜合加工機加工)

▶ 宇昌宏精密股份有限公司

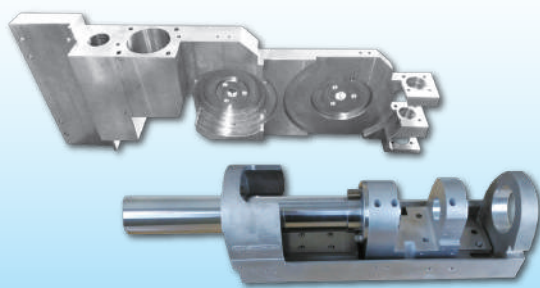
- 專精於CNC銑床(綜合加工機加工)。有別於一般加工廠，以材料特性、零件使用方式為出發點設計加工製程，以確保客戶組裝及使用品質。
- 主要客戶包含輪胎製造機械廠、堆高機零件廠、半導體設備廠、自動化設備廠。
- 生產零件大多為廠商列入全檢項目之關鍵性零組件。

▶ 主要設備介紹

- 三軸CNC銑床(綜合加工機)4台
- 四軸CNC銑床(綜合加工機)3台
- 最大加工行程：X軸(2200mm)、Y軸(1000mm)、Z軸(800mm)

▶ 產品介紹

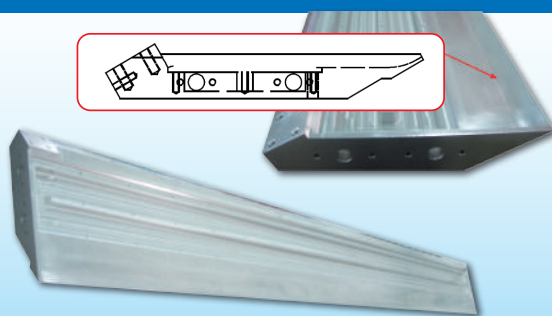
Robot Base



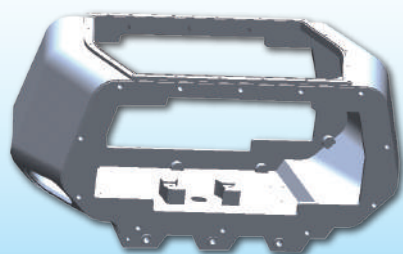
機器手臂底座



Cold Plate (外型約1810mm*200mm*35mm)



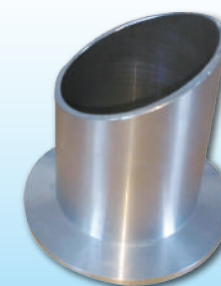
Radar Base(鑄鋁加工、外型約650mm*300mm*300mm)



各種材質加工(PEEK、PP、SUS...)



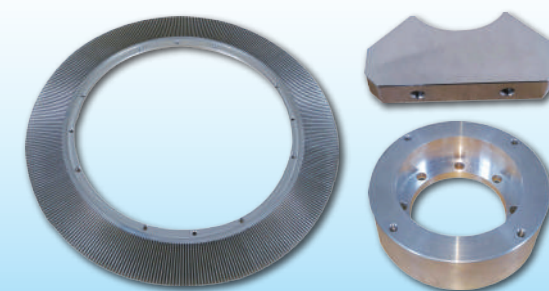
3D曲面加工



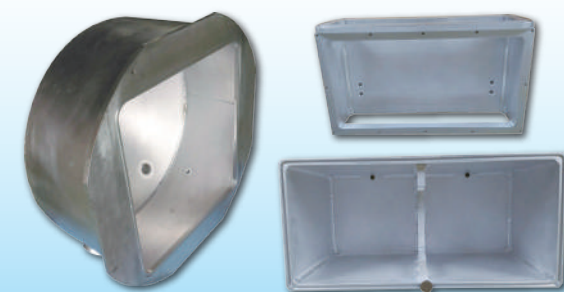
重機配件



其它



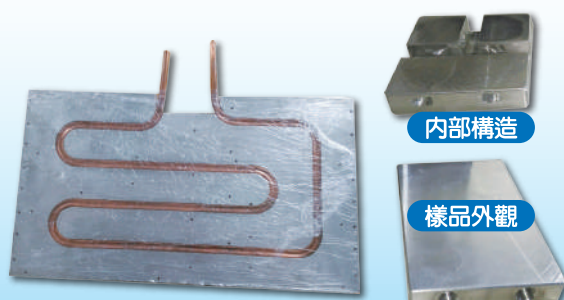
真空腔體



真空吸盤



冷卻系統



特殊焊接

