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For more info, please contact us. CHIKU

HUNTEC

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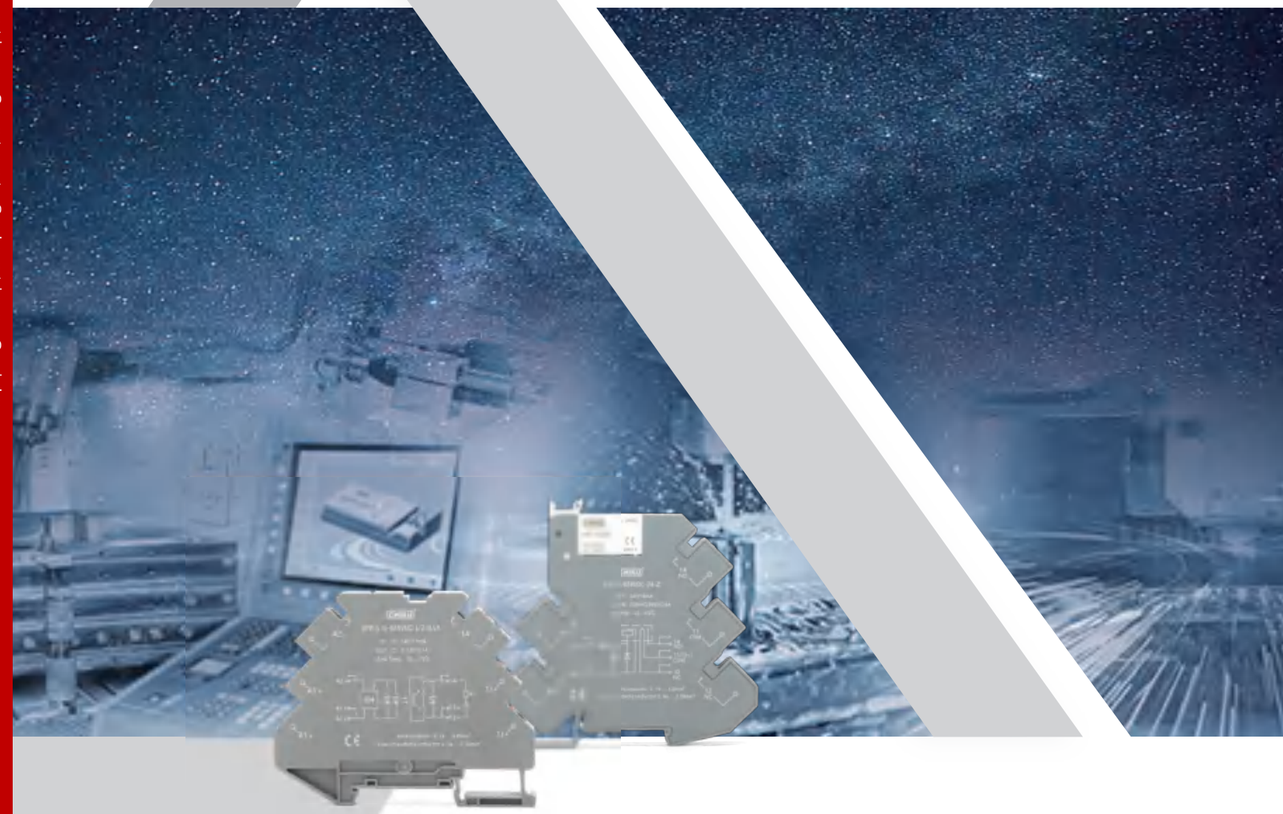
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www.chikucontact.com

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HUNTEC



INDUSTRIAL INTERFACE MODULE

Electrical connection system

selection guide

+ About Us



Personnel: More than 500 employees, of which R&D engineers account for 15%

Service network: 6 direct marketing and service centers in Shanghai, Shenzhen, Dongguan, Suzhou, Beijing and Nanjing

Design and manufacture: Full-chain production of product design, mold design and manufacturing, stamping, turning, injection molding, assembly and testing, with independent intellectual property

Certificates and systems: National high-tech enterprises, provincial scientific research centers, CNAS accredited laboratories, ISO9001, etc. Three systems in one, UL, CE, CQC and other certifications

Quality Policy：

Rigorous and realistic, Excellent quality
Excellent service, Sustainable development

COMPANY PROFILE

COMPANY VISION

we are committed to keeping China's electric connection technology in step with the world.
Creat better return on investment and experience for global customers.

COMPANY MISSION

We are committed to providing professional electrical connection solutions for our partners

COMPANY VALUE

Same goal,same ideal,
fighting together !











Absorption Innovation • Sincere Trust • Independent Manufacturing

Application fields

Industrial Automation

Industrial automation is the future trend which produce products by using auto control, auto adjustment device instead of manual operation.

Power

The safety, stability, and sufficient supply of electricity are important guarantees for the comprehensive, coordinated, and sustainable development of the national economy.

Mechanical Manufacture

Mechanical manufacture mainly includes power machinery, lifting and transportation machinery, chemical machinery, machine tools, and other mechanical equipment, which providing advanced equipment for the entire national economy.

Logistics Equipment

Logistics machinery is one of the main operational tools for modern enterprises, playing an important role in logistics operations and greatly promoting the rapid development of logistics.

Shipbuilding

From the changes in China's shipbuilding industry's share of the world shipbuilding market in the past decade, it can be seen that the proportion of China's shipbuilding industry in the global market is significantly increasing. China has become one of the important shipbuilding centers in the world.

Information and Communication

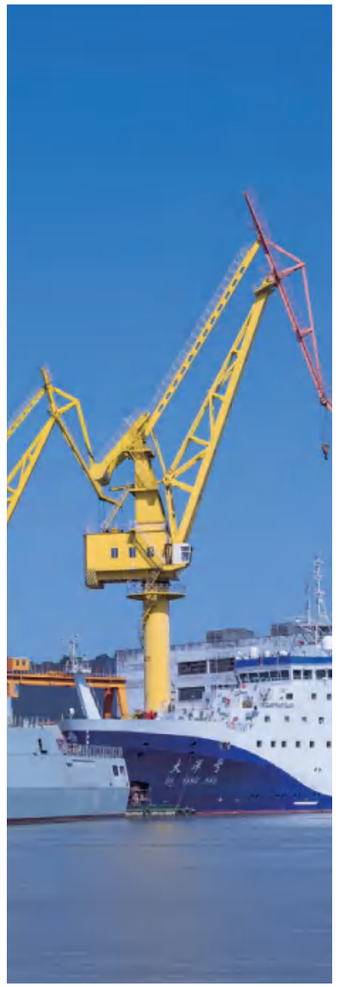
The arrival of the 5G era, with its characteristics of high speed, low latency, and the Internet of Things, is driving a new wave of technology.

Rail Transit

Rail transit mainly includes three categories: national railway system, intercity rail transit, and urban rail transit.

To be the Leader of Electrical connector

\+ Application field





Product Catalog

Products Content



RUG–R series Relay terminals 001



RTP–S–R series Slim module 005



RTP–T–R series Slim module 007



ARJ series Compact power relays 009



ARM series General power relays 015



ARL series General power power relays 021



ARC–P series Miniature power relays 027



RTP–S–I–... series Ultrathin signal 033

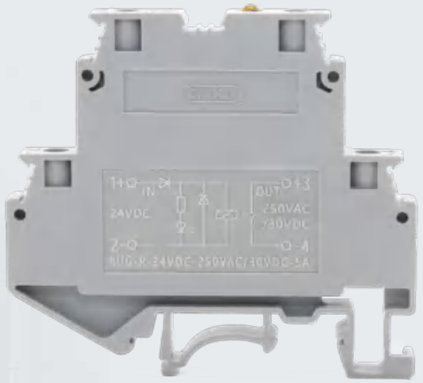


isolator RSI series Signal isolators 038



Annex 042

RUG-R series
Relay terminals



It is composed of a standard wiring base terminal and a small relay with wiring contacts. It is used for I/O interface of industrial control.
It can be used as an output relay or to increase the number of protection and control loop contacts and expand the capacity.

- Modular products with uniform appearance, M3 screw clamp connection form
- Rich input voltage specifications（5V ... 230V AC/DC），Widely used in various industrial control systems
- Equipped with indicator
- Built–in relay design, improve reliability
- 4KV RMS;Control and output (load) end electrical isolation, isolation voltage up to 4KV RMS
- 6.2mm standard module, saving installation space
- Standard clamped with DIN–35 and G rail

RUG–R Coding for relay built–in model function terminal

RUG - R - 60VDC-250VAC/30VDC-6A

- Maximum continuous current at the output：5A,6A
- Rated DC output voltage
- Rated AC output voltage
- Input control voltage type：DC: Direct current，AC: Alternative current
- Input control voltage：5V、12V、24V、48V、60V、110V、220V
- Function：R–Merchanical Relay
- Suitable for DIN35 and G rail mounting screw conection series products

* The "width" listed in the product parameters is the size from the top to the foot of the clamp

* The end plate model of this product is "D–RUG–O–L GY", and the size of end plate is height H65.8× width W48.5× thickness THK1.5mm

RUG-R series
Relay terminals



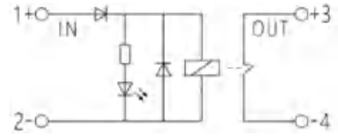
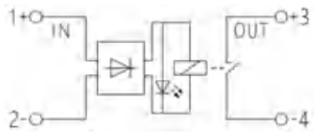
RUG-R ... DC-...-5A

DC voltage input



RUG-R ... AC/DC-...-5A

AC and DC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-R Built-in relay series	5V DC	RUG - R - 5V DC - 250VAC/30VDC - 5A	
	12V DC	RUG - R - 12V DC - 250VAC/30VDC - 5A	
	24V DC	RUG - R - 24V DC - 250VAC/30VDC - 5A	
	24V AC/DC		RUG - R - 24V AC/DC - 250VAC/30VDC - 5A
	48V AC/DC		RUG - R - 48V AC/DC - 250VAC/30VDC - 5A
	60V AC/DC		RUG - R - 60V AC/DC - 250VAC/30VDC - 5A
Schematic[1)]			
Input（control）parameters			
Rated input voltage U_N		5V DC / 12V DC / 24V DC	24V AC/DC / 48V AC/DC / 60V AC/DC
Input high level range		4.4...6.0V DC / 9.6...15V DC / 18...29V DC	18...30V AC/DC / 35...58V AC/DC / 48...72V AC/DC
Typical input current at input		0...1V DC / 0...2V DC / 0...3V DC	0...3V AC/DC / 0...6V AC/DC / 0...6V AC/DC
low range U_N		<26mA / <12mA / <10mA	<14mA / <10mA / <10mA
Control level status display		Red light emitting diode	Red light emitting diode
Output（load）parameters			
Contact type		1 normally open contacts	1 normally open contacts
Contact material (relay)		Silver alloy	Silver alloy
Rated switching voltage		250V AC/30V DC / 250V AC/30V DC / 250V AC/30V DC	250V AC/30V DC / 250V AC/30V DC / 250V AC/30V DC
Maximum continuous current (resistive)		5A / 5A / 5A	5A / 5A / 5A
Maximum switching power		1250VA ,150W / 1250VA ,150W / 1250VA ,150W	1250VA ,150W / 1250VA ,150W / 1250VA ,150W
On-delay at U_N		≤8ms / ≤8ms / ≤8ms	≤8ms / ≤8ms / ≤8ms
Turn-off delay at U_N		≤5ms / ≤5ms / ≤5ms	≤5ms / ≤5ms / ≤5ms
Mechanical life		2×10^7 / 2×10^7 / 2×10^7	2×10^7 / 2×10^7 / 2×10^7
Electrical life		1×10^5 / 5×10^5 / 5×10^5	1×10^5 / 1×10^5 / 1×10^5
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		3KV AC(50 Hz,1min)	3KV AC(50 Hz,1min)
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)	1KV AC(50 Hz,1min)
Surge immunity		2KV	2KV
Group pulse immunity		4KV	4KV
Electrostatic discharge immunity		8KV	8KV
Specification			
Working temperature		-25℃...+70℃	-25℃...+70℃
stored temperature		-40℃...+85℃	-40℃...+85℃
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm	65.8×59.3×6.2mm
Working Environment Humidity		5%...95% RH without condensation	5%...95% RH without condensation
pollution level		3	3
Overvoltage category		III	III
Protection type		IP20	IP20
Insulation material type		Nylon	Nylon
color		Grey	Grey
Flammability rating		V0（UL94）	V0（UL94）
compliance		CE	CE
Wiring Data			
Rigid/Flexible Conductors	mm^2	0.2...6.0 / 0.2...4.0	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals	M3 Screw Clamp Terminals
Stripping length	mm	9...10	9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-R series
Relay terminals

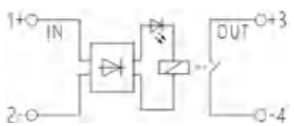


RUG-R … AC/DC…-5A

AC and DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	110V AC/DC	RUG - R - 110V AC/DC -250VAC/30DC -5A
	220V AC/DC	RUG - R - 220V AC/DC -250VAC/30DC -5A

Schematic[1)]



Input (control) parameters			
Rated input voltageU_N		110V AC/DC	220V AC/DC
Input high level range		88...136V AC/DC	176...264V AC/DC
Typical input current at input		0...6V AC/DC	0...12V AC/DC
low range U_N		<4.5mA	<4.5mA
Control level status display		Red light emitting diode	
Output (load) parameters			
Contact type		1 normally open contacts	
Contact material (relay)		silver alloy	
Rated switching voltage		250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)		6A	6A
Maximum switching power		1500VA ,180W	1500VA ,180W
On-delay at U_N		≤6ms	≤6ms
Turn-off delay at U_N		≤6ms	≤6ms
Mechanical life		1×10^7	1×10^7
Electrical life		6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		4KV AC(50 Hz,1min)	
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)	
Surge immunity		2KV	
Group pulse immunity		4KV	
Electrostatic discharge immunity		8KV	
Specification			
Working temperature		-25℃...+70℃	
stored temperature		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		65.8×59.3×6.2mm	
Working Environment Humidity		5%...95% RH without condensation	
pollution level		3	
Overvoltage category		III	
Protection type		IP20	
Insulation material type		Nylon	
color		Grey	
Flammability rating		V0（UL94）	
compliance		CE	
Wiring Data			
Rigid/Flexible Conductors	mm^2	0.2...6.0 / 0.2...4.0	
Wiring form		M3 Screw Clamp Terminals	
Stripping length	mm	9...10	
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1	

[1)] The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-R series
Relay terminals





RUG-R … DC-…-6A

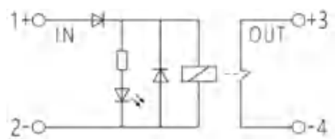
DC voltage input

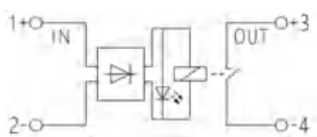
RUG-R … AC/DC-…-6A

AC and DC voltage input

Description	Input Voltage	Item NO.	Item NO.
RUG-R Built-in relay series	5V DC	RUG - R - 5V DC - 250VAC/30VDC - 6A	
	12V DC	RUG - R - 12V DC - 250VAC/30VDC - 6A	
	24V DC	RUG - R - 24V DC - 250VAC/30VDC - 6A	
	24V AC/DC		RUG - R - 24V AC/DC - 250VAC/30VDC - 6A
	48V AC/DC		RUG - R - 48V AC/DC - 250VAC/30VDC - 6A
	60V AC/DC		RUG - R - 60V AC/DC - 250VAC/30VDC - 6A

Schematic[1)]





Input (control) parameters						
Rated input voltageU_N	5V DC	12V DC	24V DC	24V AC/DC	48V AC/DC	60V AC/DC
Input high level range	4.4...6.0V DC	9.6...16V DC	19...30V DC	18...30V AC/DC	38...60V AC/DC	48...72V AC/DC
Typical input current at input	0...0.7V DC	0...1.2V DC	0...2V DC	0...2V AC/DC	0...3V AC/DC	0...4V AC/DC
low range U_N	<30mA	<15mA	<9mA	<17mA	<10mA	<9mA
Control level status display	Red light emitting diode			Red light emitting diode		
Output (load) parameters						
Contact type	1 normally open contacts			1 normally open contacts		
Contact material (relay)	Silver alloy			Silver alloy		
Rated switching voltage	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)	6A	6A	6A	6A	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W
On-delay at U_N	≤6ms	≤5ms	≤6ms	≤6ms	≤6ms	≤6ms
Turn-off delay at U_N	≤5ms	≤6.5ms	≤6.5ms	≤5ms	≤6.5ms	≤6.5ms
Mechanical life	1×10^7	1×10^7	1×10^7	1×10^7	1×10^7	1×10^7
Electrical life	6×10^4	6×10^4	6×10^4	6×10^4	6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility						
Power frequency voltage between input and output	4KV AC(50 Hz,1min)			4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)			1KV AC(50 Hz,1min)		
Surge immunity	2KV			2KV		
Group pulse immunity	4KV			4KV		
Electrostatic discharge immunity	8KV			8KV		
Specification						
Working temperature	-25℃...+70℃			-25℃...+70℃		
stored temperature	-40℃...+85℃			-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm			65.8×59.3×6.2mm		
Working Environment Humidity	5%...95% RH without condensation			5%...95% RH without condensation		
pollution level	3			3		
Overvoltage category	III			III		
Protection type	IP20			IP20		
Insulation material type	Nylon			Nylon		
color	Grey			Grey		
Flammability rating	V0（UL94）			V0（UL94）		
compliance	CE			CE		
Wiring Data						
Rigid/Flexible Conductors mm^2	0.2...6.0 / 0.2...4.0			0.2...6.0 / 0.2...4.0		
Wiring form	M3 Screw Clamp Terminals			M3 Screw Clamp Terminals		
Stripping length mm	9...10			9...10		
Reference standard	IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1					

[1)] The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RUG-R series
Relay terminals

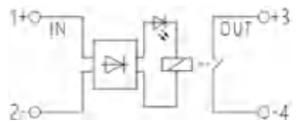


RUG-R … AC/DC...-6A

AC and DC voltage input

Description	Input Voltage	Item NO.
RUG-R Built-in relay series	110V AC/DC	RUG - R - 110V AC/DC -250VAC/30DC -6A
	220V AC/DC	RUG - R - 220V AC/DC -250VAC/30DC -6A

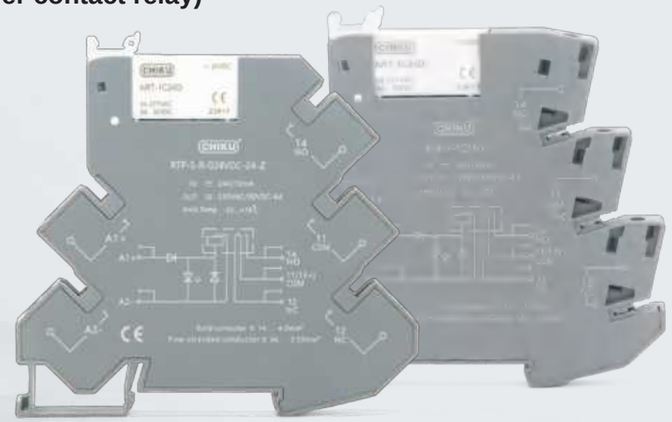
Schematic[1)]



Input (control) parameters		
Rated input voltage U_N	110V AC/DC	220V AC/DC
Input high level range	88...136V AC/DC	176...264V AC/DC
Typical input current at input	0...6V AC/DC	0...12V AC/DC
low range U_N	<4.5mA	<4.5mA
Control level status display	Red light emitting diode	
Output (load) parameters		
Contact type	1 normally open contacts	
Contact material (relay)	silver alloy	
Rated switching voltage	250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W
On-delay at U_N	≤6ms	≤6ms
Turn-off delay at U_N	≤6ms	≤6ms
Mechanical life	1×10^7	1×10^7
Electrical life	6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	4KV AC(50 Hz,1min)	
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)	
Surge immunity	2KV	
Group pulse immunity	4KV	
Electrostatic discharge immunity	8KV	
Specification		
Working temperature	-25℃...+70℃	
stored temperature	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	65.8×59.3×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	
pollution level	3	
Overvoltage category	III	
Protection type	IP20	
Insulation material type	Nylon	
color	Grey	
Flammability rating	V0（UL94）	
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors	mm^2	0.2...6.0 / 0.2...4.0
Wiring form		M3 Screw Clamp Terminals
Stripping length	mm	9...10
Reference standard		IEC61810.1 / GB/T21711.1 /IEC61010-2-201/GB4793.1

[1)] The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-R series
Slim module
(with changeover contact relay)



It consists of a standard base terminal and a plugable small relay with conversion contact, used for various automatic protection and automatic control lines, as an output relay or to increase the number and capacity of protection and control loop contacts, with the following characteristics：

- Modular push–in technology spring terminal, convenient and quick wiring；
- Replace the relay without removing the wire；
- Safe isolation between coil and contact, isolation voltage up to 4KV RMS;
- Marker strip：ZB 6；
- Bridge：FBS 10–6
- 6.2mm standard module, saving space；
- Standard DIN–35 rail mounting.

Coding of relay for ultra–thin modules

ART - 1 C 24 D

- D: DC coil (Only DC coil is optional for this relay)
- 24: Coil voltage：05: 5V, 12: 12V, 24: 24V, 60: 60V
- C: switching contact
- 1: Number of C (max:1C for option)
- ART: Ultra–thin relay (relay)

Ultra–thin relay (base)

RTP - S - R - 005 VDC - 05 - Z

- Z: Type of contactor: H=1 NO Z=1 switching
- 05: Rated voltage of relay：05: 5V, 12: 12V, 24: 24V, 60: 60V
- VDC: Type of input(control) voltage:VDC=DC VAC=AC AC/DC=VAC/DC
- 005: Spec of input(control) voltage：005: 5V，012: 12V，024：24V 048: 48V，060: 60V，110：110V，220：220V
- R: Function type: R–mechanical relay
- S: Wring way: S–push in T–screw in
- RTP: Ultra–thin relay

Coding for bases

RTP - T - 1 - C 24 - D - ...

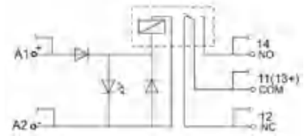
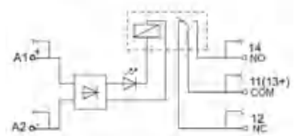
- ...: Special Requirements: Other: Customer code
- D: DC coil (Only DC coil is optional for this relay)
- 24: coil voltage:05:5V,12:12V,24:24V,60:60V
- C: C: switching contact
- 1: Number of C (max:1C for option)
- T: T: screw type S: spring type
- RTP: Ultra–thin relay (base)

* The "width" listed in the product parameters is the size from the top to the foot of the clamp

RTP-S-R series
Slim module
(with changeover contact relay)





		RTP-S-R …VDC…-Z	RTP-S-R …VAC/DC…-Z
		DC voltage input	AC and DC voltage input
Description	Input Voltage	Item No.	Item No.
RTP-S-R Ultra-thin module series Consists of terminals RTP-S-RB and miniature relays, mounted on DIN35 rail	5V DC 12V DC 24V DC 24V AC/DC 48V AC/DC 60V AC/DC 110V AC/DC 220V AC/DC	RTP-S-R - 005V DC - 05 - Z RTP-S-R - 012V DC - 12 - Z RTP-S-R - 024V DC - 24 - Z	RTP-S-R - 024V AC/DC - 12 - Z RTP-S-R - 048V AC/DC - 24 - Z RTP-S-R - 060V AC/DC - 24 - Z
Schematic[1)]			
Input （control） parameters			
Rated input voltage U_N		5V DC	12V DC	24V DC	24V AC/DC	48V AC/DC	60V AC/DC
Input high level range		4.4...6.0V DC	9.6...16V DC	19...30V DC	18...30V AC/DC	38...60V AC/DC	48...72V AC/DC
Typical input current at input		0...0.7V DC	0...1.2V DC	0...2V DC	0...2V AC/DC	0...3V AC/DC	0...4V AC/DC
low range U_N		<30mA	<15mA	<9mA	<17mA	<10mA	<9mA
Control level status display		Green light emitting diode					
Output （load） parameters							
Contact type		One set of changeover			One set of changeover		
Contact material (relay)		Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy
Rated switching voltage		250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC	250V AC/30V DC
Maximum continuous current (resistive)		6A	6A	6A	6A	6A	6A
Maximum switching power		1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W
On-delay at U_N		≤6ms	≤5ms	≤6ms	≤6ms	≤6ms	≤6ms
Turn-off delay at U_N		≤5ms	≤6.5ms	≤6.5ms	≤5ms	≤6.5ms	≤6.5ms
Mechanical life		1×10^7	1×10^7	1×10^7	1×10^7	1×10^7	1×10^7
Electrical life		6×10^4	6×10^4	6×10^4	6×10^4	6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility							
Power frequency voltage between input and output		4KV AC(50 Hz,1min)			4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)			1KV AC(50 Hz,1min)		
Surge immunity		2KV			2KV		
Group pulse immunity		4KV			4KV		
Electrostatic discharge immunity		8KV			8KV		
Specification							
Working temperature		-25℃...+70℃			-25℃...+70℃		
stored temperature		-40℃...+85℃			-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		94×90×6.2mm			94×90×6.2mm		
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation		
pollution level		3			III		
Overvoltage category		III			IP20		
Protection type		IP20			Nylon		
Insulation material type		Nylon			Grey		
color		Grey			V0（UL94）		
Flammability rating		V0（UL94）			CE		
compliance		CE					
Wiring Data							
Rigid/Flexible Conductors	mm^2	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5		
Wiring form		Push-in spring terminal block			Push-in spring terminal block		
Stripping length	mm	9...10			9...10		
Reference standard		IEC60947-5-1 GB/T14048.5			IEC60947-5-1 GB/T14048.5		

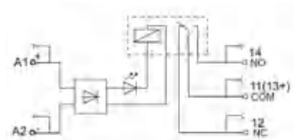
1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-S-R series
Slim module
(with changeover contact relay)



RTP-S-R …VDC…-Z

AC voltage input

Description	Input Voltage	Item No.
RTP-S-R Ultra-thin module series Consists of terminals RTP-S-RB and miniature relays, mounted on DIN35 rail	5V DC 12V DC 24V DC 24V AC/DC 48V AC/DC 60V AC/DC 110V AC/DC 220V AC/DC	 RTP-S-R - 110V AC/DC - 60 RTP-S-R - 220V AC/DC - 60
Schematic[1)]		
		
Input (control) parameters		
Rated input voltageUN	110V AC/DC	230V AC/DC
Input high level range	88...136V AC/DC	176...264V AC/DC
Typical input current at input	0...6V AC/DC	0...12V AC/DC
low range UN	<4.5mA	<4.5mA
Control level status display	Green light emitting diode	
Output (load) parameters		
Contact type	One set of changeover	
Contact material (relay)	Silver alloy	Silver alloy
Rated switching voltage	277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W
On-delay at UN	≤4.5ms	≤4.5ms
Turn-off delay at UN	≤4.5ms	≤4.5ms
Mechanical life	1×10^7	1×10^7
Electrical life	3×10^4/ 1×10^4	3×10^4/ 1×10^4
Dielectric and Electromagnetic Compatibility		
Power frequency voltage between input and output	4KV AC(50 Hz,1min)	
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)	
Surge immunity	2KV	
Group pulse immunity	4KV	
Electrostatic discharge immunity	8KV	
Specification		
Working temperature	-25℃...+70℃	
stored temperature	-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK	94×90×6.2mm	
Working Environment Humidity	5%...95% RH without condensation	
pollution level	3	
Overvoltage category	III	
Protection type	IP20	
Insulation material type	Nylon	
color	Grey	
Flammability rating	V0（UL94）	
compliance	CE	
Wiring Data		
Rigid/Flexible Conductors mm²	0.14...4 / 0.34...2.5	
Wiring form	Push-in spring terminal block	
Stripping length mm	9...10	
Reference standard	IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

RTP-T-R series
Slim module
(with changeover contact relay)



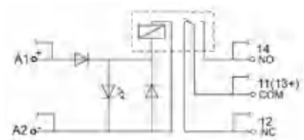
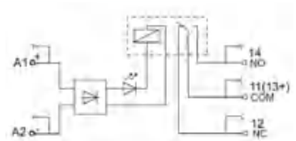


RTP-T-R …VDC…-Z

DC voltage input

RTP-T-R …VAC/DC…-Z

AC and DC voltage input

Description	Input Voltage	Item No.	Item No.
RTP-T-R Ultra-thin module series Consists of terminals RTP-S-RB and miniature relays, mounted on DIN35 rail	5V DC 12V DC 24V DC 24V AC/DC 48V AC/DC 60V AC/DC 110V AC/DC 220V AC/DC	 RTP-T-R - 012V DC - 12 - Z RTP-T-R - 024V DC - 24 - Z	 RTP-T-R - 024V AC/DC - 12 - Z RTP-T-R - 048V AC/DC - 24 - Z RTP-T-R - 060V AC/DC - 24 - Z
Schematic[1)]			
			
Input (control) parameters			
Rated input voltageUN	5V DC	12V DC	24V DC
Input high level range	4.4...6.0V DC	9.6...16V DC	19...30V DC
Typical input current at input	0...0.7V DC	0...1.2V DC	0...2V DC
low range UN	<30mA	<15mA	<9mA
Control level status display	Green light emitting diode		
Output (load) parameters			
Contact type	One set of changeover		
Contact material (relay)	Silver alloy	Silver alloy	Silver alloy
Rated switching voltage	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)	6A	6A	6A
Maximum switching power	1500VA ,180W	1500VA ,180W	1500VA ,180W
On-delay at UN	≤6ms	≤5ms	≤6ms
Turn-off delay at UN	≤5ms	≤6.5ms	≤6.5ms
Mechanical life	1×10^7	1×10^7	1×10^7
Electrical life	6×10^4	6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output	4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts	1KV AC(50 Hz,1min)		
Surge immunity	2KV		
Group pulse immunity	4KV		
Electrostatic discharge immunity	8KV		
Specification			
Working temperature	-25℃...+70℃		
stored temperature	-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK	93.3×90×6.2mm		
Working Environment Humidity	5%...95% RH without condensation		
pollution level	3		
Overvoltage category	III		
Protection type	IP20		
Insulation material type	Nylon		
color	Grey		
Flammability rating	V0（UL94）		
compliance	CE		
Wiring Data			
Rigid/Flexible Conductors mm²	0.14...4 / 0.34...2.5		
Wiring form	Screw connection terminal block M3 0.6-0.8 N.m		
Stripping length mm	8		
Reference standard	IEC60947-5-1 GB/T14048.5		

Description	Input Voltage	Item No.		Item No.	
Input (control) parameters					
Rated input voltageUN		5V DC	12V DC	24V DC	24V AC/DC	48V AC/DC	60V AC/DC
Input high level range		4.4...6.0V DC	9.6...16V DC	19...30V DC	18...30V AC/DC	38...60V AC/DC	48...72V AC/DC
Typical input current at input		0...0.7V DC	0...1.2V DC	0...2V DC	0...2V AC/DC	0...3V AC/DC	0...4V AC/DC
low range UN		<30mA	<15mA	<9mA	<17mA	<10mA	<9mA
Output (load) parameters							
Contact type		One set of changeover			One set of changeover		
Contact material (relay)		Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy	Silver alloy
Rated switching voltage		277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)		6A	6A	6A	6A	6A	6A
Maximum switching power		1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W	1500VA ,180W
On-delay at UN		≤6ms	≤5ms	≤6ms	≤6ms	≤6ms	≤6ms
Turn-off delay at UN		≤5ms	≤6.5ms	≤6.5ms	≤5ms	≤6.5ms	≤6.5ms
Mechanical life		1×10^7	1×10^7	1×10^7	1×10^7	1×10^7	1×10^7
Electrical life		6×10^4	6×10^4	6×10^4	6×10^4	6×10^4	6×10^4
Dielectric and Electromagnetic Compatibility							
Power frequency voltage between input and output		4KV AC(50 Hz,1min)			4KV AC(50 Hz,1min)		
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)			1KV AC(50 Hz,1min)		
Surge immunity		2KV			2KV		
Group pulse immunity		4KV			4KV		
Electrostatic discharge immunity		8KV			8KV		
Specification							
Working temperature		-25℃...+70℃			-25℃...+70℃		
stored temperature		-40℃...+85℃			-40℃...+85℃		
Dimensions Height H × Width W ×Thickness THK		93.3×90×6.2mm			93.3×90×6.2mm		
Working Environment Humidity		5%...95% RH without condensation			5%...95% RH without condensation		
pollution level		3			III		
Overvoltage category		III			IP20		
Protection type		IP20			Nylon		
Insulation material type		Nylon			Grey		
color		Grey			V0（UL94）		
Flammability rating		V0（UL94）			CE		
compliance		CE					
Wiring Data							
Rigid/Flexible Conductors	mm²	0.14...4 / 0.34...2.5			0.14...4 / 0.34...2.5		
Wiring form		Screw connection terminal block M3 0.6-0.8 N.m			Screw connection terminal block M3 0.6-0.8 N.m		
Stripping length	mm	8			8		
Reference standard		IEC60947-5-1 GB/T14048.5			IEC60947-5-1 GB/T14048.5		

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

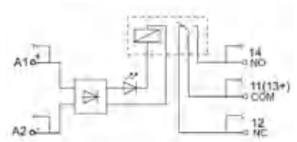
RTP-T-R series
Slim module
(with changeover contact relay)



RTP-T-R …VDC…-Z

AC voltage input

Description	Input Voltage	Item No.
RTP-T-R Ultra-thin module series Consists of terminals RTP-S-RB and miniature relays, mounted on DIN35 rail	5V DC	
	12V DC	
	24V DC	
	24V AC/DC	
	48V AC/DC	
	60V AC/DC	
	110V AC/DC	RTP-T-R - 110V AC/DC - 60 - Z
	230V AC/DC	RTP-T-R - 230V AC/DC - 60 - Z
Schematic[1)]		



Input (control) parameters			
Rated input voltage U_N		110V AC/DC	230V AC/DC
Input high level range		88...136V AC/DC	176...264V AC/DC
Typical input current at input		0...6V AC/DC	0...12V AC/DC
low range U_N		<4.5mA	<4.5mA
Control level status display		Green light emitting diode	
Output (load) parameters			
Contact type		One set of changeover	
Contact material (relay)		Silver alloy	Silver alloy
Rated switching voltage		277V AC/30V DC	277V AC/30V DC
Maximum continuous current (resistive)		6A	6A
Maximum switching power		1500VA ,180W	1500VA ,180W
On-delay at U_N		≤4.5ms	≤4.5ms
Turn-off delay at U_N		≤4.5ms	≤4.5ms
Mechanical life		1×10^7	1×10^7
Electrical life		$3 \times 10^4 / 1 \times 10^4$	$3 \times 10^4 / 1 \times 10^4$
Dielectric and Electromagnetic Compatibility			
Power frequency voltage between input and output		4KV AC(50 Hz,1min)	
Power frequency withstand voltage open circuit contacts		1KV AC(50 Hz,1min)	
Surge immunity		2KV	
Group pulse immunity		4KV	
Electrostatic discharge immunity		8KV	
Specification			
Working temperature		-25℃...+70℃	
stored temperature		-40℃...+85℃	
Dimensions Height H × Width W ×Thickness THK		93.3×90×6.2mm	
Working Environment Humidity		5%...95% RH without condensation	
pollution level		3	
Overvoltage category		III	
Protection type		IP20	
Insulation material type		Nylon	
color		Grey	
Flammability rating		V0（UL94）	
compliance		CE	
Wiring Data			
Rigid/Flexible Conductors	mm^2	0.14...4 / 0.34...2.5	
Wiring form		Screw connection terminal block M3 0.6-0.8 N.m	
Stripping length	mm	8	
Reference standard		IEC60947-5-1 GB/T14048.5	

1) The input circuit is related to the model, please refer to the technical parameters of the input side. If you have other specifications or parameters, please contact the sales staff.

Take Notes

ARJ Series
Compact power relays



- Transparent housing, visible contact status
- Conductor current：1C/O 12A and 2C/O 8A
- With motion indicator window
- DC coil, optional：diode
- AC coil, optional：RC filter circuit
- AC: red Led indicator, DC：Green Led inidcator
- Red and blue test bars to distinguish between AC and DC coil types

ARJ Relay Coding Rules　　SRJ Socket Coding Rules

ARJ - 2C 24 D LD T - ***　　SRJ - 1 E - ***

- Special demand: N: No finger protection
- Socket type: E:General type,S: Separated type，P: welded type，SP:Plug in
- Number of groups: 1:1C/O， 2:2C/O
- Socket code
- Special demand: G:Gold plated contact，NP:Coil nonpolarity
- Functional form: None:General type，T:Button type
- Built–in device: None:General type，L:LED，LD: LED+Diode(DC)，LRC: LED+RC protection(AC)
- Voltage type: D:DC ， A:AC
- Voltage specification: 06:6V，12:12V，24:24V，48:48V，110:110V，230:230V
- Contact type: 1C:1C/O，2C:2C/O
- Product code

ARJ Series
Compact power relays





>> Type

Number of Contacts / Classification	1C / O		2C / O	
	Model	General Rated Voltage（V）	Model	General Rated Voltage（V）
General type	ARJ – 1 *	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48、DC 110	ARJ – 2 *	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in Motion Indicator	ARJ– 1 * L	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48	ARJ– 2 * L	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in diode+Motion indicator	ARJ– 1 * LD	DC 12、DC 24、DC 48	ARJ– 2 * LD	DC 12、DC 24、DC 48
Built-in RC +Motion indicator	ARJ– 1 * LRC	AC 230	ARJ– 2 * LRC	AC 230
Built-in Locking button+Motion Indicator	ARJ– 1 * LT	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48	ARJ– 2 * LT	AC 24、AC 110 / 120、AC 230 DC 12、DC 24、DC 48
Built-in Locking button+Motion Indicator +Diode	ARJ– 1 * LDT	DC 12、DC 24、DC 48	ARJ– 2 * LDT	DC 12、DC 24、DC 48
Built-in Locking button+Motion Indicator+RC circuit	ARJ– 1 * LRCT	AC 230	ARJ– 2 * LRCT	AC 230

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> Coil specifications

illustration	AC								DC							
Rated voltage(V)	6	12	24	48	100/110	110/120	200/220	230	5	6	12	24	48	100	110	
Coil resistance(Ω)	16.6	66.2	265	1060	4600	5565	18400	22260	47.2	67.9	270	1090	4350	18870	22830	
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage							
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage							
Maximum voltage	130% of the rated voltage								130% of the rated voltage							
Power consumption	Approx. 1.1~1.4VA(50Hz)								Approx. 0.53W							

Note:Coil resistance value is refering to be conditioned at temp.23 ， the AC coil resistance tolerance is ±15%,
DC coil resistance tolerance is when rated voltage less than 100V is ±10%, when more or equel to 110V is ±15%.

>> Function

	Contact resistance		Below 100mΩ (DC6V 1A)
	Motion time		Below 15ms
	Release time		DC type：Below 10ms；Below 20ms AC type or built–in RC circuit、DC with diode type.
Operation frequency	Mechanical		18000 times/h
	Electrical		12 , 00 times/h
Withstand voltage	Insulation resistance		1000MΩ（500V DC）
	between the coil and the contact		AC 5000V 1min
	Between same pole contacts		AC 1000V 1min
	Between opposite pole contacts		AC 3000V 1 min
Vibration	Error action oscillation		10 ~ 55H z（double–amplitude 1.5mm）
	Durable oscillation		10 ~ 55H z（double–amplitude 1.5mm）
Impulse	Error action impulse		98m / s^2
	Durable impulse		980m / s^2
Environment	Surrounding environment temperature		–40℃~70℃
	Surrounding environment humidity		5 % ~ 85%RH
Durability	Mechanical	AC coil	AC：More than 10 million times
		DC coil	DC：More than 20 million times
	Electrical (resistive load)		More than 100,000 times
	Weight		General 17g、Button19g

ARJ Series
Compact power relays

>> Contact rated value

Item \ Load	1C/O	2C/O
	Resistive load	Resistive load
Rated load	AC277V 12A DC30V 12A	AC277V 8A DC30V 8A
Rated current	12A	8A
Maximum switching power	3300VA/360W	2200VA/240W
Max.Contact current	12A	8A
No. of Contact	1C/O	2C/O
Contact material	Silver alloy	

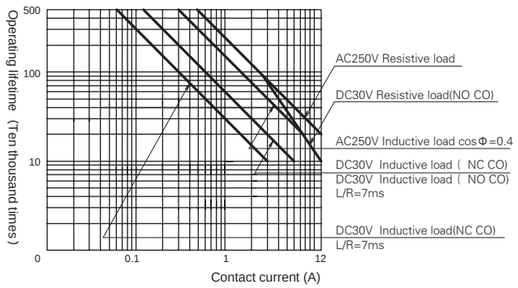
Item \ Type	General	Diode、built-in RC type
Environment temperature	−40℃~＋70℃[1)]	−25℃~+55℃[2)]
Environment humidity	5%~85%RH	5%~85%RH

[1)] No ice, no dew

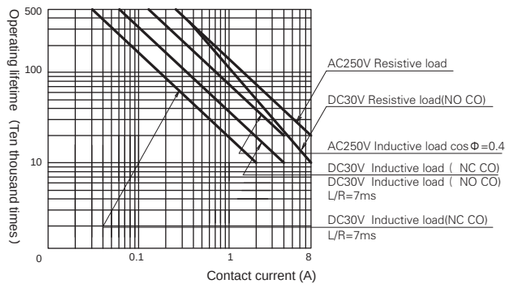
[2)] Due to the temperature of the diode and limitation of the components, the highest temperature is 55℃

>> Lifetime

● ARJ−1

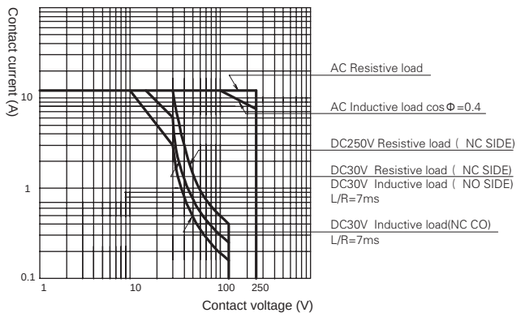


● ARJ−2

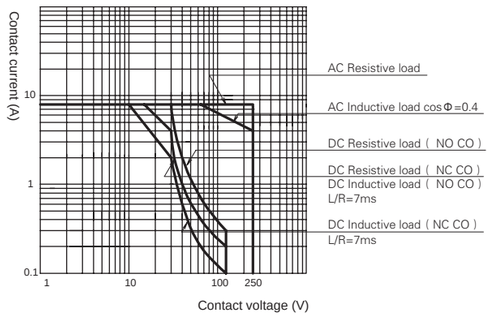


>> Switch capacity

● ARJ−1



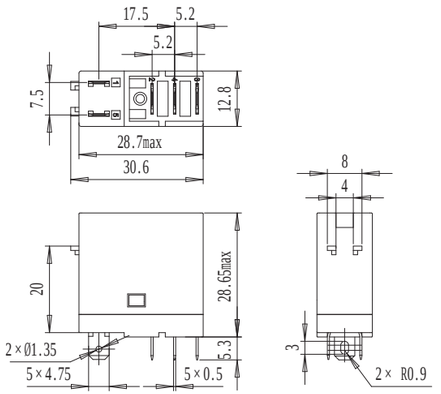
● ARJ−2



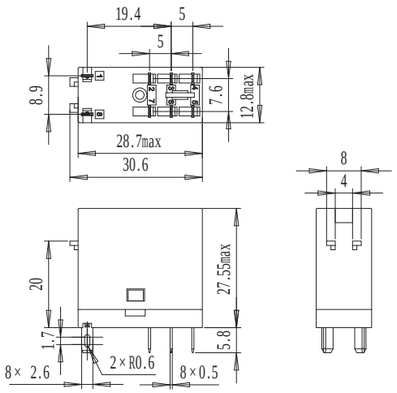
ARJ Series
Compact power relays

>> Relay dimension

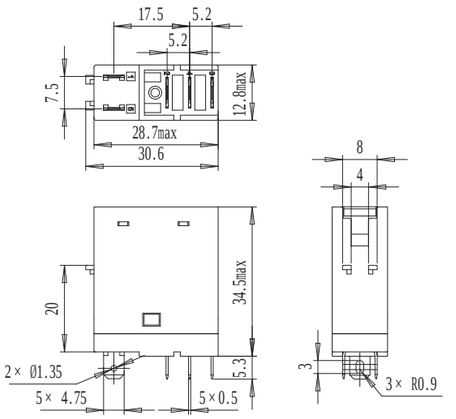
ARJ−1∗



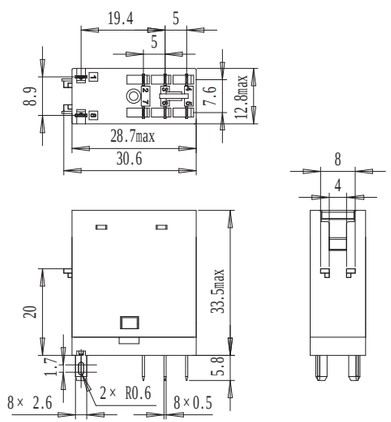
ARJ−2∗



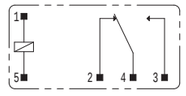
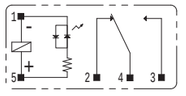
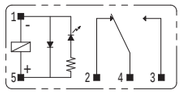
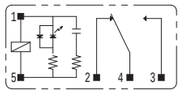
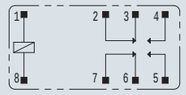
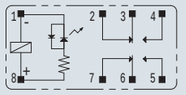
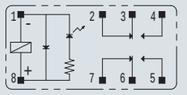
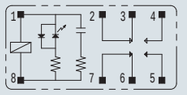
ARJ−1∗T



ARJ−2∗T



>> Internal wiring Diagram

Model	General type	Built-in Motion Indicator type	Built-in Diode+Motion Indicator type(DC)	Built-in RC circuit+Motion Indicator type(AC)
ARJ-1*				
ARJ-2*				

Note:1、DC model please note coil polarity and wiring it after confirming coil polarity.

2、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.

SRJ Series
Compact power relay socket



- Suitable for the ARJ series relays
- Medium withstand voltage: Up to 4000AC (Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in;Welding
- Standard plastic spring (S shape, can be with mark stripe)
- Eco-friendly product (Compliant with RoHS)

>> Performance parameters

Model		SRJ-1E	SRJ-1S	SRJ-2E	SRJ-2S	SRJ-1P	SRJ-2P	SRJ-1SP	SRJ-2SP
Rated load	Current	16A		10A		10A		16A	10A
	Voltage	300 VAC							
Medium voltage resistance	Coil/Contact	4000 V/S							
	the contact space	2500 V/S							
Screw torque		1.0 N.m				-		-	
External connection wire		20–14/0.5–2.5AWG/mm^2				-		0.25mm^2...2.5mm^2/22...14AWG	
Strip length		-						10...12mm/0.43in	
Operating environment		–40℃ ~ +85℃							
Weight		28.7g	34g	32.2g	38g	4.3g	4.4g	46g	48g

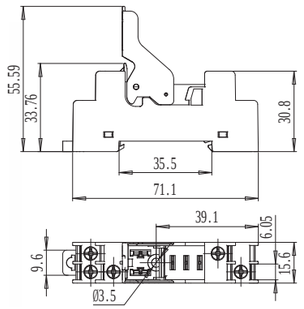
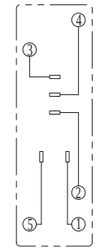
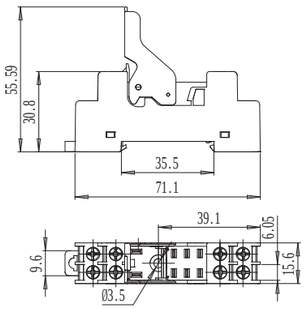
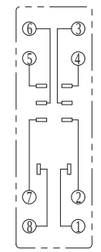
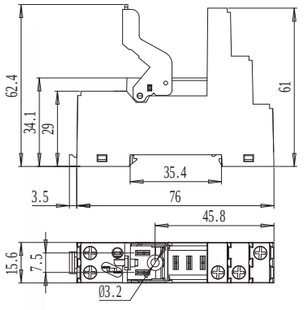
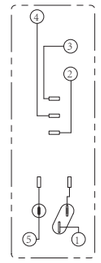
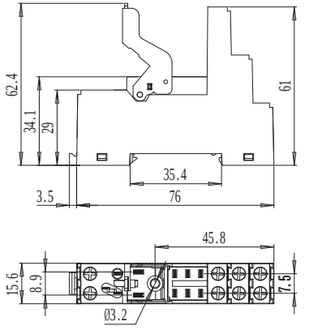
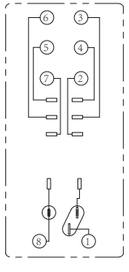
>> Socket and Accessories

Relay type	Din rail installation socket		PCB installation socket
	Socket	Accessories	Socket
ARJ-1*	SRJ–1E	Fixed Bridge:AR–Q–2	SRJ-1P
	SRJ–1S	Signboard:AR–B–1;Fixed Bridge:AR–Q–3:Protection module:AR–M–***	
	SRJ–1SP	Signboard:AR–B–1	
ARJ-2*	SRJ–2E	Signboard:AR–Q–2	SRJ-2P
	SRJ–2S	Signboard:AR–B–1;Fixed Bridge:AR–Q–3;Protection module:AR–M–***	
	SRJ–2SP	Signboard:AR–B–1	

Note:MOQ 10 pieces. So please order as a multiple of the minimum order quantity.

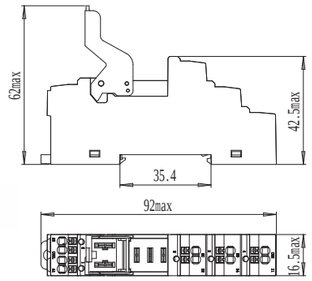
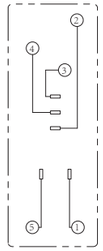
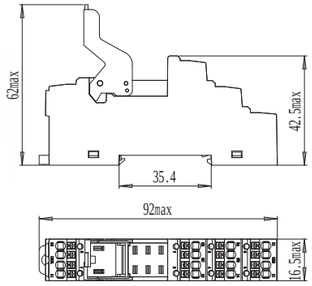
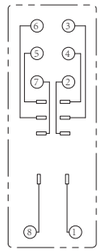
SRJ Series
Compact power relay socket

>> Socket-DIN rail installation type

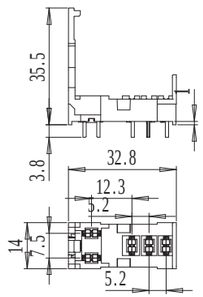
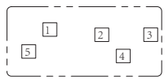
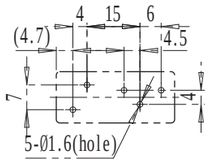
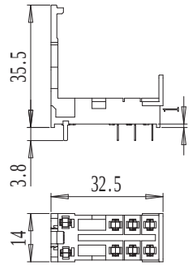
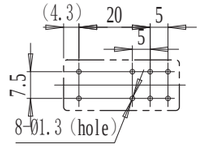
Socket	Dimension (mm)	Circuit diagram	Accessories
• SRJ-1E 			 AR-Q-2
• SRJ-2E 			 AR-Q-2
• SRJ-1S 			 AR-B-1  AR-Q-3  AR-M-*** Note:See the attachment for the selection of the protection module
• SRJ-2S 			 AR-B-1  AR-Q-3  AR-M-*** Note:See the attachment for the selection of the protection module

SRJ Series
Compact power relay socket

>> DIN rail connection socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRJ-1SP 			 AR-B-1
• SRJ-2SP 			 AR-B-1

>> PCB connection socket

Socket	Dimension(Unit:mm)	Terminal array /Installation hole size(Unit:mm)
• SRJ-1P 		Terminal array (bottom view)  Installation hole size 
• SRJ-2P 		Terminal array (bottom view)  Installation hole size 

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

ARM Series
General power relays



- Transparent housing, visible contact status
- Conductor current：2C/O、3C/O 7A and 4 C/O 5A
- With motion indicator window
- DC coil, optional：diode
- AC coil, optional：RC protection component
- AC: red Led indicator, DC: Green Led inidcator
- Red and blue test bars to distinguish AC and DC coil types

ARM Relay Coding Rule

ARM - 2C 24 D L T - ***
- Special demand: G:Gold plated contact，NP:Coil nonpolarity， F:Flange plate installation，P:PCB welded type
- Functional form: None:General type，T:Button type
- Built–in device: None:No components，L:LED，LD: LED+Diode(DC)，LRC: LED+RC protection(AC)
- Voltage type: D:DC ， A:AC
- Voltage specification: 06:6V，12:12V，24:24V，
- Contact type: 2C:2C/O，3C:3C/O，4C:4C/O，2A:2NO，3A:3NO，4A:4NO
- Product code

SRM Socket Coding Rule

SRM - 2 E - ***
- Special demand: N: No protection for finger
- Socket type: E:General,S: Separated type,M:Mixed,P:Welded type，SP:Plug in
- Number of groups: 2:2C/O，3:3C/O，4:4C/O
- Socket code

ARM Series
General power relays





>> Type

Classification \ Number of contacts	2C/O		3C/O		4C/O	
	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)
General type	ARM-2*	AC12、AC24、AC110、AC230 DC12、DC24	ARM-3*	AC12、AC24、AC110、AC230 DC12、DC24	ARM-4*	AC12、AC24、AC110、AC230 DC12、DC24
Built-in Motion Indicator	ARM-2*L		ARM-3*L		ARM-4*L	
Built-in Diode+Motion Indicator	ARM-2*LD	DC12、DC24	ARM-3*LD	DC12、DC24	ARM-4*LD	DC12、DC24
–	–	–	–	–	–	–
General type-PCB pins	ARM-2*-P	AC12、AC24、AC110、AC230 DC12、DC24	ARM-3*-P	AC12、AC24、AC110、AC230 DC12、DC24	ARM-4*-P	AC12、AC24、AC110、AC230 DC12、DC24
Built-in Motion Indicator type-PCB pins	ARM-2*L-P		ARM-3*L-P		ARM-4*L-P	
Built-in Diode+Motion Indicator type-PCB pins	ARM-2*LD-P	DC12、DC24	ARM-3*LD-P	DC12、DC24	ARM-4*LD-P	DC12、DC24
–	–	–	–	–	–	–

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> Coil specifications

illustration	AC								DC							
Rated voltage(V)	6	12	24	48	110/120	220	230	240	6	9	12	24	48	60	110	120	220
Coil resistance(Ω)	11.5	45	180	640	4500	13000	17000	18790	40	90	180	650	2600	3900	13000	17000	42000
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage							
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage							
Maximum voltage	110% of the rated voltage								110% of the rated voltage							
Power consumption	Approx. 1.1~1.8VA								Approx. 0.9~1.1W							

Note:Coil resistance value is refering to be conditioned at temp.23， the AC coil resistance tolerance is ±15%,
DC coil resistance tolerance is when rated voltage less than 100V is ±10%, when more or equel to 110V is ±15%.

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
	Release time	AC≤25ms、DC≤15ms
Operation frequency	Mechanical	18 , 000 times/h
	Electrical	12 , 00 times/h
Withstand voltage	Insulation resistance	1000MΩ（500V DC）
	between the coil and the contact	AC 2000V 1min
	Between same pole contacts	AC 1000V 1min
	Between opposite pole contacts	AC 1500V 1 min
Vibration	Error action oscillation	10 ~ 55H z（double-amplitude 1.5mm）
	Durable oscillation	10 ~ 55H z（double-amplitude 1.5mm）
Impulse	Error action impulse	98m / s^2
	Durable impulse	980m / s^2
Environment	Surrounding environment temperature	-40℃~70℃
	Surrounding environment humidity	5 % ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	Approx.35g

ARM Series
General power relays

>> Contact rated value

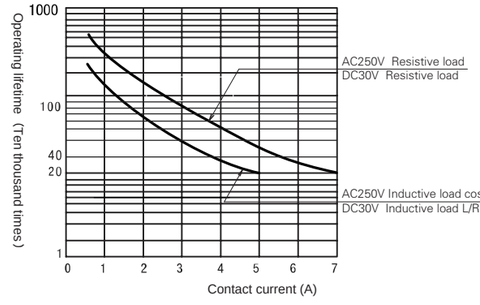
Item \ Load	2C/O 3C/O	4C/O
	Resistive load	Resistive load
Rated load	AC250V 7A DC30V 7A	AC250V 5A DC30V 5A
Rated current	7A	5A
Maximum switching power	1750VA / 210W	1250VA / 150W
Max.Contact current	7A	5A
No. of Contact	2C/O 3C/O	4C/O
Contact material	Silver alloy	

Item \ Type	General	Action indicator light, diode, RC built-in type
Environment temperature	-40℃~+55℃[1)]	-25℃~+55℃[2)]
Environment humidity	5%~85%RH	5%~85%RH

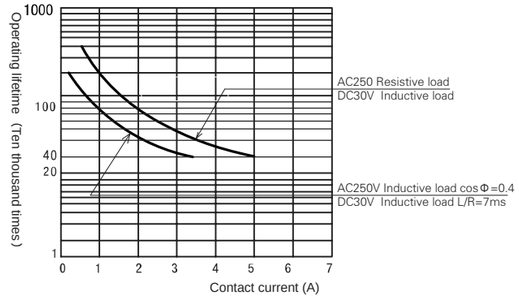
[1)] No ice, no dew
[2)] Due to the temperature of the diode and limitation of the components, the highest temperature is 55℃

>> Lifetime

● ARM-2／ARM-3



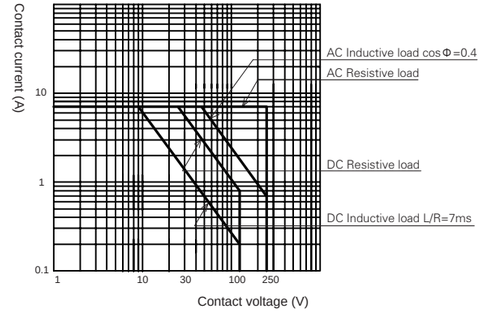
● ARM-4



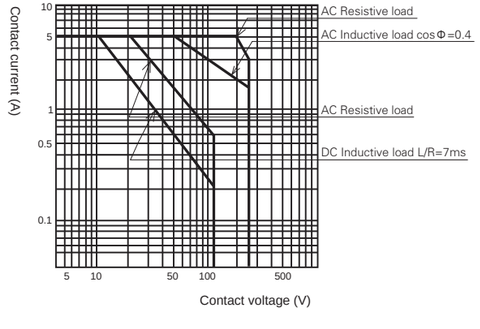
>> Switch capacity

Contact current (A)

● ARM-2／ARM-3



● ARM-4

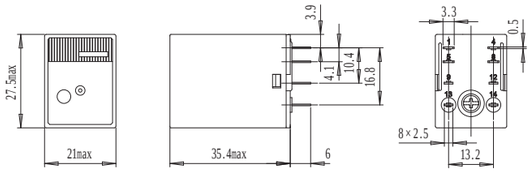


ARM Series
General power relays

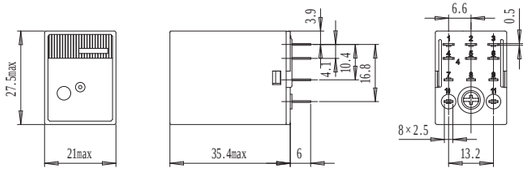
>> Relay dimension

>> Internal wiring diagram

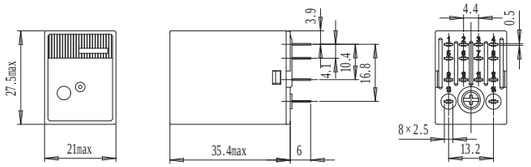
Model	Normalized type	With lights type	With lights + diodes type	With lights + RC circuit
ARM-2	ARM-2*	ARM-2*DL	ARM-2*DLD	ARM-2*ALRC



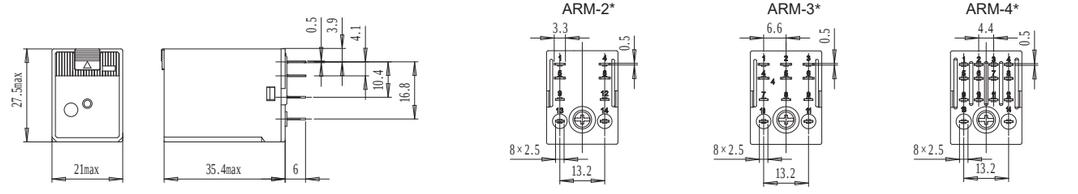
ARM-3	ARM-3*	ARM-3*DL	ARM-3*DLD	ARM-3*ALRC



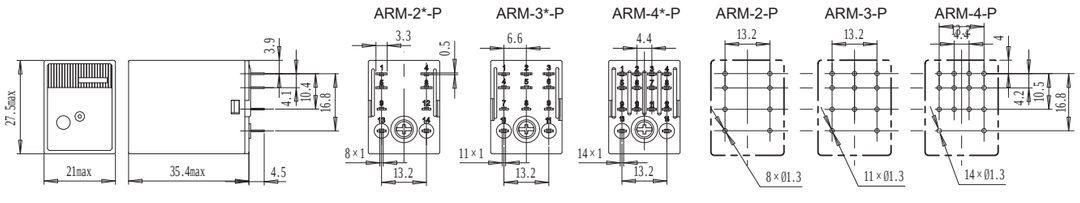
ARM-4	ARM-4*	ARM-4*DL	ARM-4*DLD	ARM-4*ALRC



ARM (Button type)



ARM-P



Installation hole size(mm)

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

Note:DC model please note coil polarity and wiring it after confirming coil polarity.

SRM Series
General power relay socket

- Suitable for the ARM series relays
- Medium withstand voltage: Up to 4000AC (Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in;Welding
- Standard plastic spring (S shape, can be with the mark stripe)
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

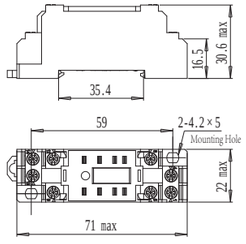
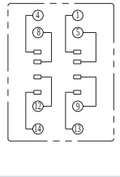
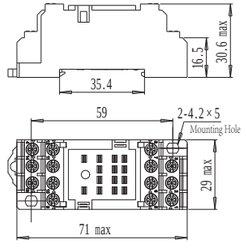
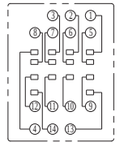
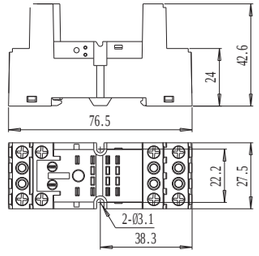
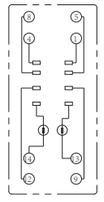
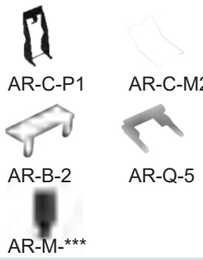
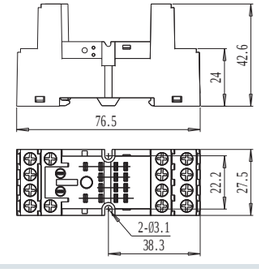
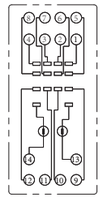
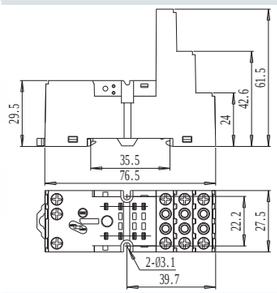
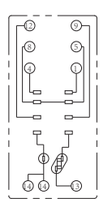
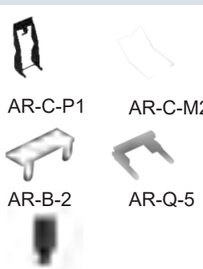
Model		SRM-2E	SRM-2S	SRM2M	SRM-4E	SRM-4S	SRM-4M	SRM-2P	SRM-4P	SRM-2SP	SRM-4SP
Rated load	Current	10A	12A		7A	10A		10A		12A	10A
	Voltage	300 VAC									
Medium voltage resistance	Coil/Contact	200 V/s	4000 V/s		200 V/s	4000 V/s		200 VAC		4000 V/s	
	the contact space		2500 V/s			2500 V/s				2500 V/s	
Screw torque		1.0 N.m						–		-	
External connection wire		20–14/0.5–2.5AWG/mm^2						–		0.25mm^2...2.5mm^2/22...14AWG	
Strip length		-						–		10...12mm/0.43in	
Operating environment		–40℃ ~ +85℃									
Weight		34.6g	56g	52g	50.5g	68g	62g	6g	7.3g	46g	48g

>> Socket and Accessories

Relay type	Din rail installation socket		PCB installlation socket	
	Socket	Accessories	Socket	Accessories
ARM–2*	SRM–2E	Fixed Bridge:AR–Q–4 Stainless steel spring:AR–C–M1		Stainless steel wire metal spring
	SRM–2M	Signboard:AR–B–2 Fixed Bridge：AR–Q–5 Plastic spring:AR–C–P1 Protection module:AR–M–*** Stainless steel spring:AR–C–M2(M Mode)	SRM–2P	
	SRM–2S			
	SRM–2SP	Plastic spring：AR–C–P1 Stainless steel spring：AR–C–M1 Signboard:AR–B–2		
ARM–3*	SRM–3E	Stainless steel spring:AR–C–M1	SRM–3P	
ARM–4*	SRM–4E	Fixed Bridge:AR–Q–4 Stainless steel spring:AR–C–M1	SRM–4P	
	SRM–4M	Signboard:AR–B–2 Fixed Bridge:AR–Q–5 Plastic spring:AR–C–P1 Protection module:AR–M–*** Stainless steel spring:AR–C–M2(M型)		
	SRM–4S			
	SRM–4SP	Plastic spring:AR–C–P1 Stainless steel spring:AR–C–M1 Signboard:AR–B–2		

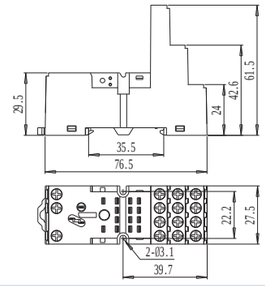
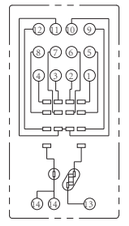
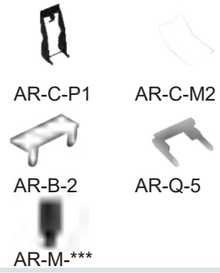
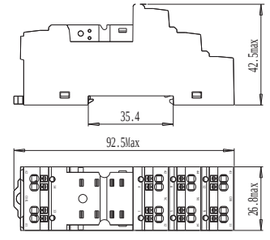
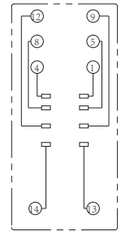
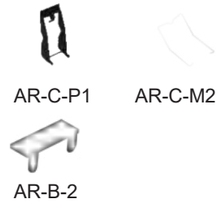
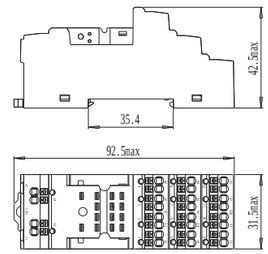
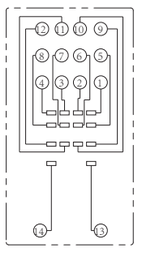
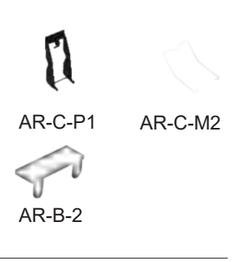
SRM Series
General power relay socket

>> DIN rail connection socket

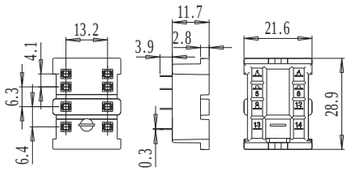
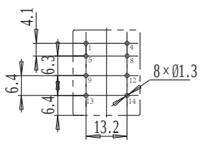
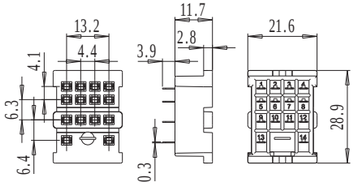
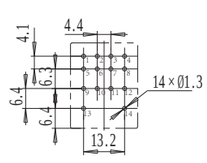
Socket	Dimension (mm)	Circuit diagram	Accessories
• SRM-2E 			 AR-C-M1 AR-Q-4
• SRM-4E 			 AR-C-M1 AR-Q-7
• SRM-2M 			 AR-C-P1 AR-C-M2 AR-B-2 AR-Q-5 AR-M-***
• SRM-4M 			 AR-C-P1 AR-C-M2 AR-B-2 AR-Q-5 AR-M-***
• SRM-2S 			 AR-C-P1 AR-C-M2 AR-B-2 AR-Q-5 AR-M-***

SRM Series
General power relay socket

>> DIN rail connection socket

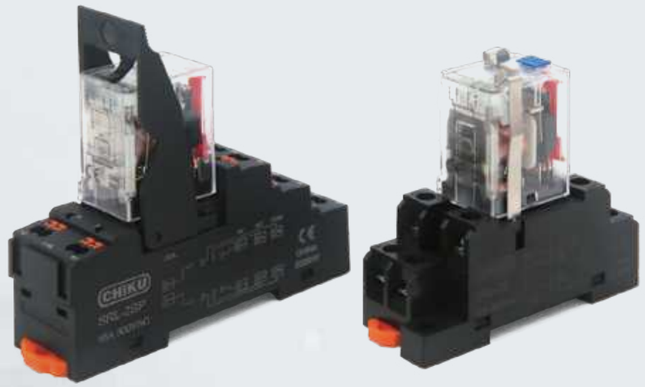
Socket	Dimension (mm)	Circuit diagram	Accessories
• SRM-4S 			 AR-C-P1 AR-C-M2 AR-B-2 AR-Q-5 AR-M-***
• SRM-2SP 			 AR-C-P1 AR-C-M2 AR-B-2
• SRM-4SP 			 AR-C-P1 AR-C-M2 AR-B-2

>> PCB connection socket

• SRM-2P 			 AR-C-M3
• SRM-4P 			 AR-C-M3

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

ARL Series
General power relays



- Transparent housing, visible contact status
- Conductor current：2C/O,3C/O,4C/O 10A
- With/Without LED
- DC coil, optional：diode
- AC coil, optional：RC filter circuit
- AC: red Led indicator, DC: Green Led inidcator

ARL Relay Coding Rules

ARL - 2C 24 D L T - ***

- Special demand：G:Gold plated contact，NP:Coil nonpolarity，F:Load current 12A，P:PCB connection
- Functional form：None:General type，T:Button type
- Built-in device：None:Normalized type，L:LED，LD: LED+Diode(DC)，LRC: LED+RC protection(AC)
- Voltage type：D:DC ，A:AC
- Voltage specification：06:6V， 12:12V， 24:24V，...
- Contact type：2C:2C/O，3C:3C/O，4C:4C/O，2A:2NO
- Product code

SRL Socket Coding Rules

SRL - 2 E - ***

- Special demand: N: No finger protection
- Socket type: E:General type，P: welded type，SP:Plug in
- Number of groups：2:2C/O，3:3C/O，4:4C/O
- Socket code

ARL Series
General power relays



>> Type

Number of Contacts / Classification	2C/O		3C/O		4C/O	
	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)
Normalized type	ARL-2*	AC12、AC24、AC110、AC230 DC12、DC24	ARM-3*	AC12、AC24、AC230 DC12、DC24	ARM-4*	AC12、AC24、AC230 DC12、DC24
Built-in Motion Indicator	ARL-2*L		ARM-3*L		ARM-4*L	
Built-in Diode+Motion Indicator	ARL-2*LD	DC12、DC24				
Built-in RC +Motion indicator	–	–				
Normalized type-PCB pins	ARL-2*-P	AC12、AC24、AC110、AC230 DC12、DC24	ARM-3*-P	AC12、AC24、AC230 DC12、DC24	ARM-4*-P	AC12、AC24AC230 DC12、DC24
Built-in Motion Indicator light type-PCB pins	ARL-2*L-P	AC12、AC24、AC110、AC230 DC12、DC24	ARM-3*L-P		ARM-4*L-P	
Built-in Diode+Motion Indicator type-PCB pins	ARL-2*LD-P	DC12、DC24				
Built-in RC circuit+Motion Indicator type-PCB pins	–	–				

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> ARL-2* Coil specifications

illustration	AC								DC								
Rated voltage(V)	6	12	24	48	110/120	220	230	240	6	9	12	24	48	60	110	120	220
Coil resistance(Ω)	11.5	45	180	640	4500	13000	17000	18790	40	90	180	650	2600	3900	13000	17000	42000
Operation voltage	≤ 80% of the rated voltage								≤ 75% of the rated voltage								
Release voltage	≥ 30% of the rated voltage								≥ 10% of the rated voltage								
Maximum voltage	110% of the rated voltage								110% of the rated voltage								
Power consumption	Approx. 1.1~1.8VA								Approx. 0.9~1.1W								

>> ARL-3* Coil specifications

illustration	AC				DC			
Rated voltage(V)	12	24	100/110	200/220	12	24	48	100/110
Coil resistance(Ω)	24	100	2300	2650	107	410	1700	8500
Operation voltage	≤ 80% of the rated voltage				≤ 80% of the rated voltage			
Release voltage	≥ 30% of the rated voltage				≥ 10% of the rated voltage			
Maximum voltage	110% of the rated voltage				110% of the rated voltage			
Power consumption	Approx.1.6~2.0VA				Approx. 1.4W			

>> ARL-4* Coil specifications

illustration	AC				DC			
Rated voltage(V)	12	24	100/110	200/220	12	24	48	100/110
Coil resistance(Ω)	20	78	1800	6700	100	350	1600	6900
Operation voltage	≤ 80% of the rated voltage				≤ 80% of the rated voltage			
Release voltage	≥ 30% of the rated voltage				≥ 10% of the rated voltage			
Maximum voltage	110% of the rated voltage				110% of the rated voltage			
Power consumption	Approx.1.9~2.5VA				Approx.1.5W			

Note:Coil resistance value is refering to be conditioned at temp.23， the AC coil resistance tolerance is ±15%,
DC coil resistance tolerance is when rated voltage less than 100V is ±10%, when more or equel to 110V is ±15%.

ARL Series
General power relays

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
	Release time	AC≤25ms，DC≤15ms
Operation frequency	Mechanical	18 , 000 times/h
	Electrical	12 , 00 times/h
Withstand voltage	Insulation resistance	1000MΩ（500V DC）
	between the coil and the contact	AC 2000V 1min
	Between same pole contacts	AC 1000V 1min
	Between opposite pole contacts	AC 1500V 1 min
Vibration	Error action oscillation	10 ~ 55Hz（double-amplitude 1.5mm）
	Durable oscillation	10 ~ 55Hz（double-amplitude 1.5mm）
Impulse	Error action impulse	98m / s^2
	Durable impulse	980m / s^2
Environment	Surrounding environment temperature	-40℃~70℃
	Surrounding environment humidity	5 % ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	2C/O Approx.37g; 3C/O Approx.50g; 4C/O Approx.70g

>> Contact rated value

Item \ Load	2C/O 3C/O 4C/O
	Resistive load
Rated load	AC250V 10A
	DC30V 10A
Rated current	10A
Maximum switching power	2500VA / 300W
Max.Contact current	10A
No. of Contact	2C/O,3C/O,4C/O
Contact material	Silver alloy

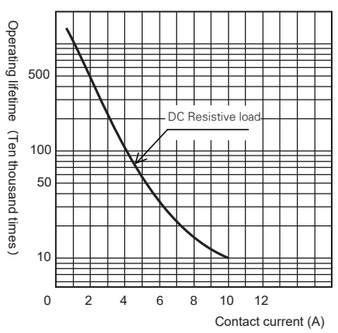
Item \ Type	General	Action indicator light, diode, RC built-in type
Environment temperature	-40℃~ +55℃[1]	-25℃~+55℃[2]
Environment humidity	5%~85%RH	5%~85%RH

[1] No ice, no dew

[2] Due to the temperature of the diode and limitation of the components, the highest temperature is 55℃

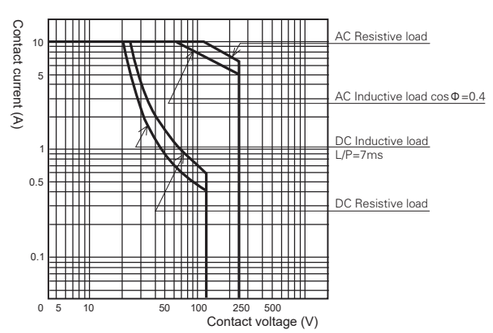
>> Lifetime

● ARL-2/ARL-3/ARL-4



>> Switch capacity

● ARL-2/ARL-3/ARL-4



ARL Series
General power relays

>> Relay dimension

>> Internal wiring diagram

Model	Normalized type	Built-in Motion Indicator type
ARL-2*		
ARL-2*-P		
ARL-2*T		
ARL-3*		
ARL-3*-P		
ARL-4*		
ARL-4*-P		

ARL Series
General power relay socket

- Suitable for the ARJ series relays
- Medium withstand voltage: Up to 4000AC (Between contact and coil)
- Insulation resistance 1000MΩ
- Wiring: Screw connection, Optional: Push-in; and PCB Welding
- Spring and fixed bridge for option
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

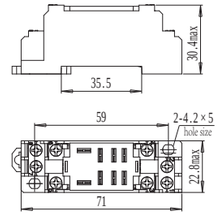
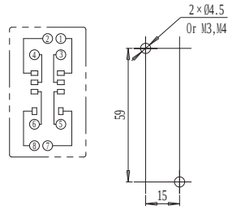
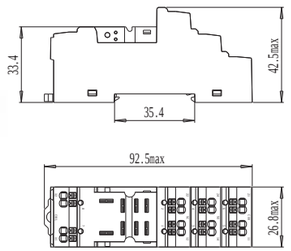
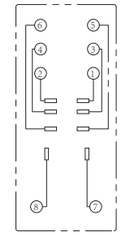
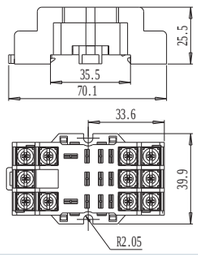
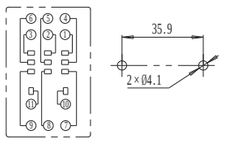
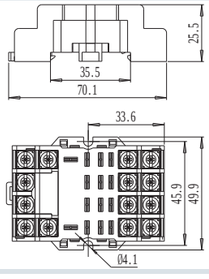
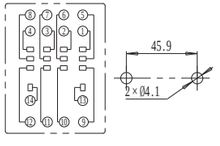
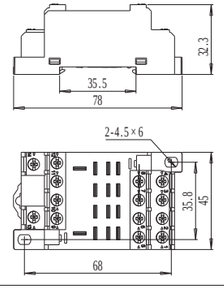
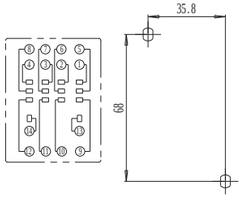
Model		SRL-2E	SRL-3E-N	SRL-4E-N	SRL-4E	SRL-2P	SRL-4P	SRL-2SP
Rated load	Current	10A			16A	10A		16A
	Voltage	300 VAC						
Medium voltage resistance	Coil/Contact	2000 V/s						4000 V/s
	the contact space							2500 V/s
Screw torque		1.0 N.m				–		–
External connection wire		20–14/0.5–2.5AWG/mm^2				–		0.25mm^2...2.5mm^2/22...14AWG
Strip length		-				–		10...12mm/0.43in
Operating environment		–40℃ ~ +85℃						
Weight		37.4g	58g	73g	86g	7.5g	14g	46g

>> Socket and accessories

Relay type	Din rail installation socket		PCB installlation socket	
	Socket	Accessories	Socket	Accessories
ARL-2*	SRL–2E	Stainless steel spring:AR–C–M1	SRL–2P	Stainless steel wire metal spring:AR–C–M3
	SRL–2SP	Plastic spring:AR–C–P1		
ARL-3*	SRL–3E–N	Stainless steel spring:AR–C–M4	–	–
ARL-4*	SRL–4E–N		SRL–4P	Stainless steel wire metal spring:AR–C–M3
	SRL–4E	Stainless steel spring:AR–C–M1		

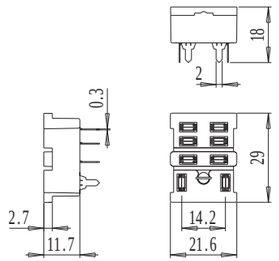
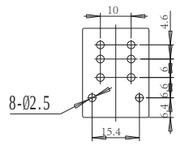
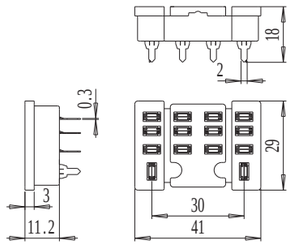
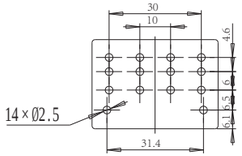
ARL Series
General power relay socket

>> DIN rail installlation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRL-2E 			 AR-C-M1
• SRL-2SP 			 AR-C-P1
• SRL-3E-N 			 AR-C-M4
• SRL-4E-N 			 AR-C-M4
• SRL-4E 			 AR-C-M1

ARL Series
General power relay socket

>> PCB installlation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRL-2P 			 AR-C-M3
• SRL-4P 			 AR-C-M3

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

Take Notes

ARC-P series
Miniature power relay



- Transparent housing, visible contact status
- Conductor current：1C/O 16A,2C/O 8A
- Low height: only 15.7m m
- Dielectric withstand voltage between coil and contact 5KV

ARC–P Relay Coding Rules

ARC-P - 2C 24D H - ***

- Special demand：G:gold–plated contact，other: whether adding sth. depends on the material changes later.
- Customized code：None:mount space 3.5mm，H:mount space 5.08mm
- Voltage type：D:DC ，A:AC
- Voltage specification：06:6V， 12:12V， 24:24V
- Contact type：1C:1C / O，2C:2C / O
- Product code

SRC–P Relay Coding Rules

SRC-P - 2 S - ***

- Special demand:other: whether adding sth. depends on the material changes later.
- Socket type: M :Mixed，S :Separating，P :Soldering
- Number of groups：1:1C/O，2:2C/O
- Socket code

ARC-P series
Miniature power relay



>> Type

Classification	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)	Model	General Rated Voltage (V)
Normalized type	ARC–P–1*	DC12、DC24	ARC–P–1*H	DC12、DC24	ARC–P–2*H	DC12、DC24

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.
2.Please consult us for other voltage one.

>> ARC-P Coil Specification

illustration	DC								
Rated voltage(V)	3	5	6	9	12	18	24	48	60
Coil resistance(Ω)	22.5	62	90	200	360	360	1440	5760	7500
Operation voltage	≤75% of the rated voltage								
Release voltage	≥10% of the rated voltage								
Maximum voltage	130% of the rated voltage								
Power consumption	Approx. 0.4W								

Note: 1. The coil resistance value refers to the coil temperature is 23℃.The tolerance is: The AC coil resistance ± 15%,The DC coil resistance: rated voltage < DC100V ± 10%, rated voltage ≥DC110V ± 15%.
2. The maximum allowable voltage is the maximum voltage value that the relay coil can withstand in a short period of time.
3. For products with a rated voltage of 48V, in order to protect the coil from damage, there must be measures to inhibit the overvoltage generation of the coil in the testing and application.
(For example: coil is connected in parallel with a diode) .

ARC-P series
Miniature power relay

>> Function

	Contact resistance	Below 100mΩ (DC6V 1A)
	Motion time	Below 20ms
	Release time	Below 10ms
Operation frequency	Mechanical	18 , 000 times/h
	Electrical	12 , 00 times/h
Withstand voltage	Insulation resistance	1000MΩ（500V DC）
	Between the coil and the contact	AC 5000V 1m i n
	Between same pole contacts	AC 1000V 1m i n
Vibration	Error action oscillation	10 ~ 55Hz（double-amplitude 1.5mm）
	Durable oscillation	10 ~ 55Hz（double-amplitude 1.5mm）
Impulse	Error action impulse	98m / s²
	Durable impulse	980m / s²
Environment	Surrounding environment temperature	-40℃~70℃
	Surrounding environment humidity	5 % ~ 85%RH
Durability	Mechanical	More than 10 million times
	Electrical (resistive load)	More than 100,000 times
	Weight	Approx.13.5g

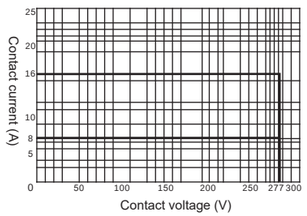
>> Contact rated value

Item / Load	1C/O	2C/O
	Resistive load	Resistive load
Rated load	AC277V 16A	AC277V 8A
Rated current	16A	8A
Maximum switching power	4000VA	2200VA
Max.Contact current	16A	8A
No. of Contact	1C/O	2C/O
Contact material	Silver alloy	

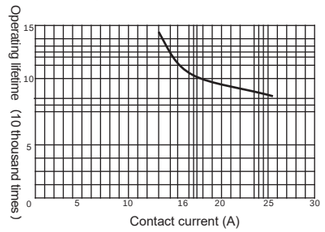
Item / Type	
	Action indicator light, diode, RC built-in type
Environment temperature	-40℃~+85℃[1)]
Environment humidity	5%~85%RH

[1)] No ice, no dew

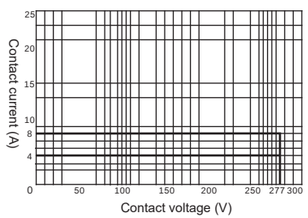
>> Maximum contact switching power (1P)



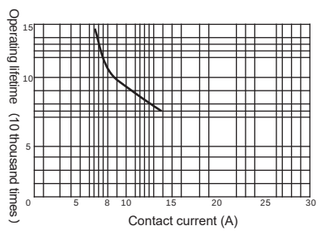
>> Lifetime(1 Form A)



>> Maximum contact switching power (1P)

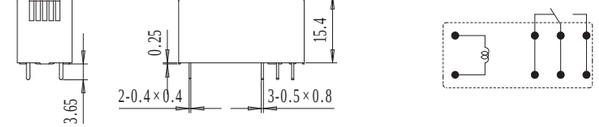


>> Lifetime(2 Form A)



ARC-P series
Miniature power relay

>> Relay dimension

Model	>> Internal wiring diagram	>> Installation hole size(mm)
ARC—P—1		
ARC—P—1*H		
ARC—P—2*H		

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm, ＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

SRC-P series
Miniature power relay socket

- Suitable for the ARC-P series relays
- Medium withstand voltage: Up to 4000AC
- Insulation resistance 1000MΩ
- With the finger protection function, the protection module is available.
- Wiring: Screw connection, Optional: Push-in; and PCB Welding
- Eco-friendly product (Compliant with RoHS)



>> Performance parameters

Model		SRC-P-1M	SRC-P-1S	SRC-P-2M	SRC-P-2S	SRC-P-1P	SRC-P-2P
Rated load	Current	16A		10A		8A	8A
	Voltage	300 VAC				250 VAC	
Medium voltage resistance	Coil/Contact	4000 V/s				5000 V/s	
	the contact space	2500 V/s				2000 V/s	
Screw torque		1.0 N.m				–	
External connection wire		20–14/0.5–2.5AWG/mm^2				–	
Operating environment		−40℃ ~ +85℃					
Weight		38g	38g	38g	38g	3.4g	3.4g

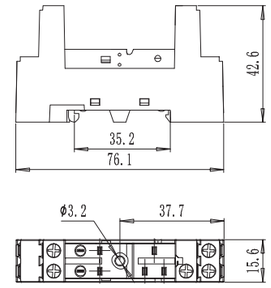
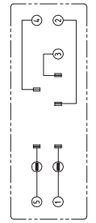
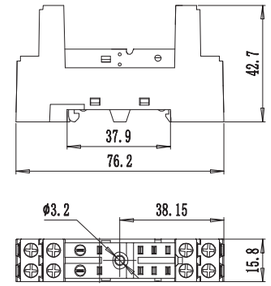
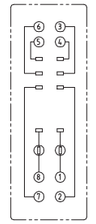
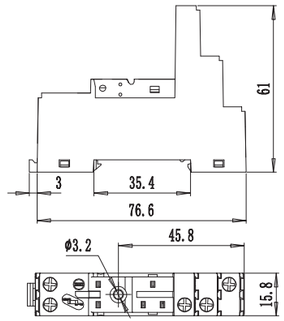
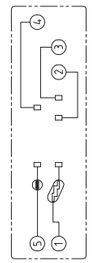
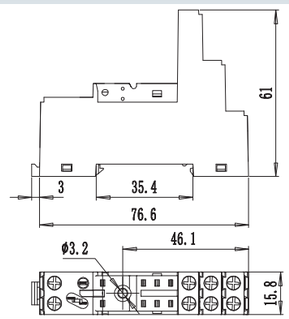
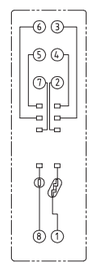
>> Socket and accessories

Relay type	Din rail installation socket		PCB installlation socket	
	Socket	Accessories	Socket	Accessories
ARC–P–1	SRC–P–1M	Plastic spring:AR–C–P 2 Signboard:AR –B –1 Protection module: AR–M–***	SRC–P–1P	Stainless steel wire metal spring:AR–C–M5
	SRC–P–1S			
ARC–P–1*H ARC–P–2*H	SRC–P–2M		SRC–P–2P	
	SRC–P–2S			

Note:1.MOQ:20 units.So please order as a multiple of the minimum order quantity.

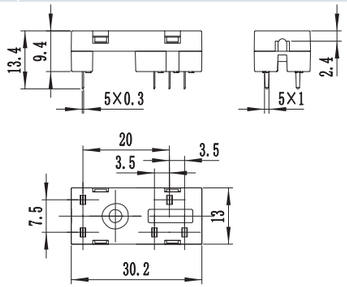
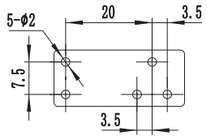
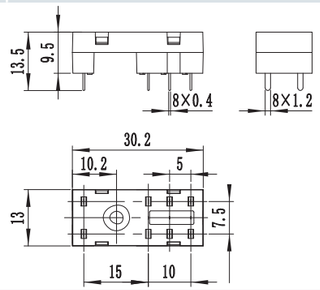
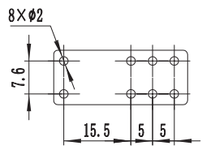
SRC-P series
Miniature power relay socket

>> DIN rail installlation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRC-1M 			 AR-C-P2 AR-B-1 AR-M-***
• SRC-2M 			 AR-C-P2 AR-B-1 AR-M-***
• SRC-1S 			 AR-C-P2 AR-B-1 AR-M-***
• SRC-2S 			 AR-C-P2 AR-B-1 AR-M-***

SRC-P series
Miniature power relay socket

>> PCB installlation socket

Socket	Dimension(Unit:mm)	Circuit diagram	Accessories
• SRC-P-1P-3.5mm 			 AR -C-M5 Note: there are a variety of height steel clips optional.
• SRC-P-2P-5.0mm 			 AR-C-M5 Note: there are a variety of height steel clips optional.

Note:1、Unmarked tolerance: When ＜1mm, it is ±0.2mm,＜1～5mm is ±0.3mm，＞5mm is 0.4mm.
2、Installation hole size tolerance: ±0.1mm.

Take Notes

RTP series
Ultrathin signal isolators



- Modular push–in technology spring terminal;
- Isolator among power supply/input/output, max isolation voltage: 3.5kV RMS;
- 6.2mm standard module, saving space;
- Marking stripe: ZB 6;
- Bridge: FBS 10–6
- Standard DIN–35 rail mounting.

RTP Analog signal isolator naming conventions

RTP - S - I - S - L - 1 - 1 (R 1 1 1 1 1)

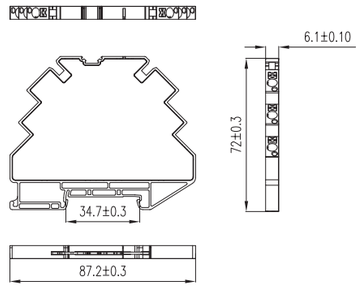
- Output signal: 1:0–20mA, 2: 4–20mA, 3: 0–5V, 4: 1–5V, 5: 0–10V, 6: 2–10V
- Input signal: 1:0–20mA, 2: 4–20mA, 3: 0–5V, 4: 1–5V, 5: 0–10V, 6: 2–10V
- Power spec.: L–Low (18...30V DC), H–High (170...230V AC)
- Type of Input signal : T–Sensor signal, S–Standard signal
- R: HT Electric

- Output signal: 1:0–20mA, 2: 4–20mA, 3: 0–5V, 4: 1–5V, 5: 0–10V, 6: 2–10V
- Input signal: 1:0–20mA, 2: 4–20mA, 3: 0–5V, 4: 1–5V, 5: 0–10V, 6: 2–10V
- Power spec.: L–Low (18...30V DC), H–High (170...230V AC)
- Type of Input signal : T–Sensor signal, S–Standard signal
- Type of function: I–Signal isolating amplifier
- Connection type: S–Push–in connection, T–Screw connection
- RTP: HT thin platform series product

* The "width" is the size from the top to the foot of the clamp

RTP-S-I-S-L...
Ultrathin signal isolators

Project	Unit	Parameter
EMC		
SURGE		IEC 61326–1:B grade
EFT/B		IEC 61326–1:A grade
ESD		IEC 61326–1:A grade
General data		
Surrounding air temperature(operation)		–20℃...+60℃
Surrounding air temperature(storage)		–40℃...+85℃
Relative humidity		10%...90% RH
Pollution severity		2
Over voltage category		II
Protection degree		IP20
Material of housing		PA
Color		Gray
Flammability rating		V0 (UL94)
conformity marking		CE
Connection data		
Solid conductor	mm^2	0.14...4.0
Fine–stranded conductor	mm^2	0.34...2.5
Type of connection		Push–in connection
Strip length	mm	9...10
Physical data		
Width	mm	6.2mm
Heigh	mm	87.2mm
Depth (depth from upper–edge of DIN–rail)	mm	72mm



Install		
Type of install		DIN35 U type standard rail

RTP-S-I-S-L-...
Ultrathin signal isolators

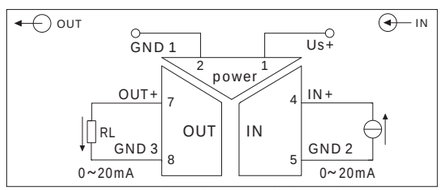


RTP-S-I-S-L-1-1 (R2111)



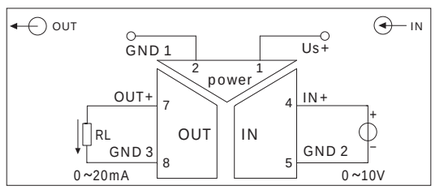
RTP-S-I-S-L-5-1(R2151)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-1 (R2111)	RTP-S-I-S-L-5-1(R2151)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)	Accord with IEC 61326−1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 80mA(24V Power supply，20mAoutput current）	< 80mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1−port	1−port
Input current signal	0...20mA	–
Input impedance	⩽ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal		0...10V
Input impedance		⩾ 90KΩ
Output data		
Output port Qty	1−port	1−port
Output current signal	0...20mA	0...20mA
Max output current signal	26mA	28mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RTP-S-I-S-L-1-1(R2111)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...20mA signal and output 0...20mA isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.



RTP-S-I-S-L-5-1(R2151)

RTP-S-I-S-L-5-1(R2151) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 0...10V signal and provided 0...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

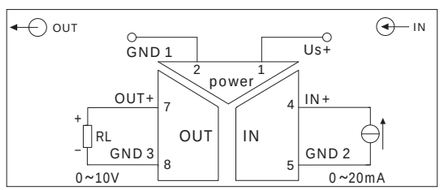


RTP-S-I-S-L-1-5(R2115)



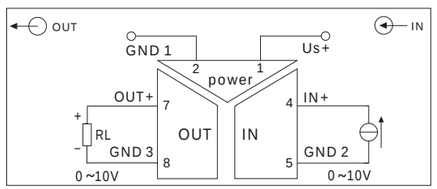
RTP-S-I-S-L-5-5(R2155)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-5 (R2115)	RTP-S-I-S-L-5-5 (R2155)
Basic data		
Input/output port	One input , One output	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)	Accord with IEC 61326−1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 30mA(24V Power supply，20mAoutput current）	< 30mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1−port	1−port
Input current signal	0...20mA	–
Input impedance	⩽ 50Ω	–
Max input current signal	< 35mA	–
Input voltage signal		0...10V
Input impedance		⩾ 90KΩ
Output data		
Output port Qty	1−port	1−port
Output voltage	0...10V	0...10V
Voltage output load resistance	RL⩾ 2KΩ	RL⩾ 2KΩ



RTP-S-I-S-L-1-5(R2115)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...20mA signal and output 0...10V isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.



RTP-S-I-S-L-5-5(R2155)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 0...10V signal and output 0...10V isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

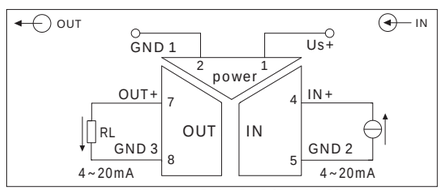




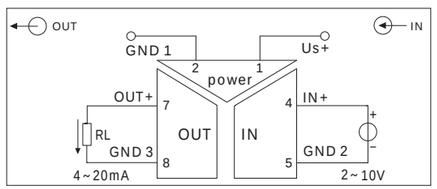
RTP-S-I-S-L-2-2 (R2122)

RTP-S-I-S-L-6-2 (R2162)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-2-2 (R2122)	RTP-S-I-S-L-6-2 (R2162)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)	Accord with IEC 61326−1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 80mA(24V Power supply，20mAoutput current）	< 80mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1−port	1−port
Input current signal	4...20mA	−
Input impedance	⩽ 50Ω	−
Max input current signal	< 35mA	−
Input voltage signal		2...10V
Input impedance		⩾ 90KΩ
Output data		
Output port Qty	1−port	1−port
Output current signal	4...20mA	4...20mA
Max output current signal	26mA	⩽ 28mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RTP-S-I-S-L-2-2(R2122)



RTP-S-I-S-L-6-2(R2162)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 4...20mA signal and output 4...20mA isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-6-2(R2162) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 2...10V signal and provided 4...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-...
Ultrathin signal isolators

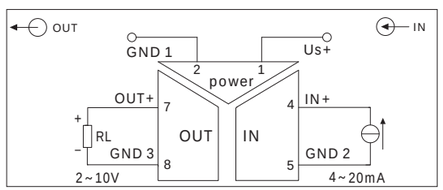




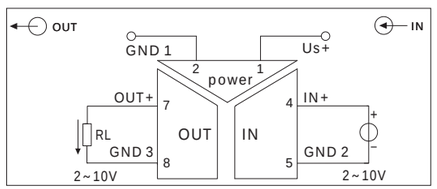
RTP-S-I-S-L-2-6(R2126)

RTP-S-I-S-L-6-6 (R2166)

Description	Product type	Product type
RTP Signal Isolators	RTP-S-I-S-L-1-5 (R2115)	RTP-S-I-S-L-5-5 (R2155)
Basic data		
Input/output port	One input, One output	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）	3kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)	Accord with IEC 61326−1(GB/T 18268)
Weight	27g	27g
Connection device	Current source	Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 30mA(24V Power supply，20mAoutput current）	< 30mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1−port	1−port
Input current signal	4...20mA	−
Input impedance	⩽ 50Ω	−
Max input current signal	< 35mA	−
Input voltage signal		2...10V
Input impedance		⩾ 90KΩ
Output data		
Output port Qty	1−port	1−port
Output voltage	2...10V	2...10V
Voltage output load resistance	RL⩾ 2KΩ	RL⩾ 2KΩ



RTP-S-I-S-L-2-6(R2126)



RTP-S-I-S-L-6-6(R2166)

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 4...20mA signal and output 2...10V isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RTP-S-I-S-L-1-1(R2111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input 2...10V signal and output 2...10V isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RSI series
Signal isolators



- Modular screw terminal blocks with same appearance;
- Input (control) voltage specifications (24V DC), suitable for industrial applications;
- Equipped with indicator light;
- Electrical isolation between the power supply/input/output, with an isolation voltage up to 5KV RMS;
- Suitable for standard DIN–35 rail.

RSI Analog signal isolator naming conventions

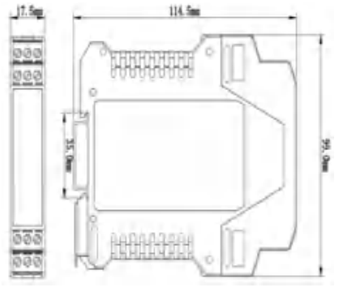
RSI - T - M - L - 1 - 1 - 1 （R 2 2 1 1 1 1）

- Input/Output port Qty: 1:one in one out,2:one in two out,3:two in two out
- Output signal：1:0–20mA，2：4–20mA，3：0–5V，4：1–5V，5：0–10V，6：2–10V
- Input signal：1:0–20mA，2：4–20mA，3：0–5V，4：1–5V，5：0–10V，6：2–10V
- Power spec.: L–Low (18...30V DC), H–High（170...230V AC)
- Product thickness spec.: 1：12.5mm，2：17.5mm，3：22.5mm
- Type of Input signal : 1：Sensor signal, 2：Standard signal
- R: HT Electric

- Input/Output port Qty: 1:one in one out,2:one in two out,3:two in two out
- Output signal：1:0–20mA，2：4–20mA，3：0–5V，4：1–5V，5：0–10V，6：2–10V
- Input signal：1:0–20mA，2：4–20mA，3：0–5V，4：1–5V，5：0–10V，6：2–10V
- Power spec.: L–Low (18...30V DC), H–High（170...230V AC)
- Product thickness spec.: S–12.5mm，M–17.5mm，L–22.5mm
- Type of Input signal : T–Sensor signal, S–Standard signal
- RSI: HT screw connection signal isolating amplifier product series，
  RTP–S：HT think plated push–in connection signal isolating amplifier

RSI-...M-L-...
Signal isolators

Project	Unit	Parameter
EMC		
SURGE		IEC 61326–1:B grade
EFT/B		IEC 61326–1:A grade
ESD		IEC 61326–1:A grade
General data		
Surrounding air temperature(operation)		–20℃...+60℃
Surrounding air temperature(storage)		–40℃...+85℃
Relative humidity		10%...90% RH
Pollution severity		2
Over voltage category		II
Protection degree		IP20
Material of housing		PA
Color		White
Flammability rating		V0（UL94）
conformity marking		CE
Connection data		
Solid conductor	mm^2	0.5...2.5(12...24AWG)
Fine–stranded conductor	mm^2	0.5...2.5(12...24AWG)
Type of connection		M3 Screw connection
Strip length	mm	9...10 mm
Physical data		
Width	mm	17.5mm
Heigh	mm	99.0mm
Depth (depth from upper–edge of DIN–rail)	mm	114.5mm



Install	
Type of install	DIN35 U type standard rail

RSI-T-M-L-1-1-...
Signal isolators

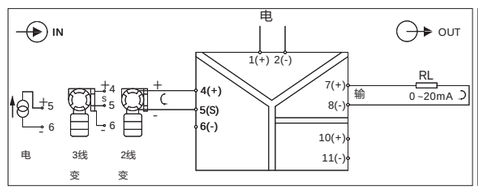




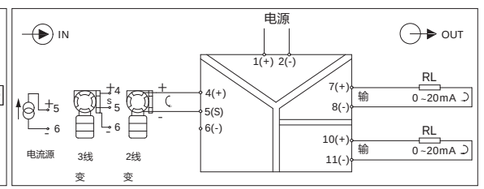
RSI-T-M-L-1-1-1(R121111)

RSI -T-M-L-1-1-2 (R121112)

Description	Product type	Product type
RTP Signal Isolators	RSI-T-M-L-1-1-1(R121111)	RSI -T-M-L-1-1-2 (R121112)
Basic data		
Input/output port	One input, One output	One input ,two output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min)（Power supply，Input，Output）	1.5kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)	Accord with IEC 61326−1(GB/T 18268)
Weight	97.5g	97.5g
Connection device	Sensor,Current source	Sensor,Current source
Power supply		
Power supply voltage	24V DC	24V DC
Power supply voltage range	18...30V DC	18...30V DC
Consume current	< 120mA(24V Power supply，20mAoutput current）	< 120mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply	Terminal independence power supply
Power protection	Reverse direction protection	Reverse direction protection
Status indicator	Green LED	Green LED
Input data		
Input port Qty	1−port	1−port
Input current signal	0...20mA	0...20mA
Input impedance	⩽ 50Ω	⩽ 50Ω
Max input current signal	< 35mA	< 35mA
Output data		
Output port Qty	1−port	2−port
Output current signal	0...20mA	0...20mA
Max output current signal	26mA	26mA
Current output load resistance	RL< 600Ω	RL< 600Ω



RSI-T-M-L-1-1-1(R121111)



RSI-T-M-L-1-1-2(R121112)

RSI-T-M-L-1-1-1(R121111) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input sensor's 0...20mA signal and output 0...20mA isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

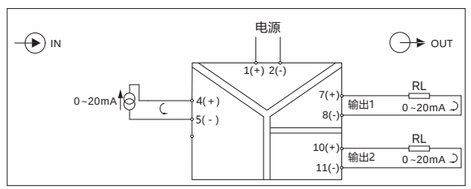
RSI-T-M-L-1-1-2(R121112) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input sensor's 0...20mA signal and output 0...20mA isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RSI-S-M-L-1-1-...
Signal isolators



RSI-S-M-L-1-1-2(R221112)

Description	Product type
RTP Signal Isolators	RSI-S-M-L-1-1-1(R121112)
Basic data	
Input/output port	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326−1(GB/T 18268)
Weight	97.5g
Connection device	Sensor,Current source
Power supply	
Power supply voltage	24V DC
Power supply voltage range	18...30V DC
Consume current	< 120mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply
Power protection	Reverse direction protection
Status indicator	Green LED
Input data	
Input port Qty	1−port
Input current signal	0...20mA
Input impedance	⩽ 50Ω
Max input current signal	< 35mA
Output data	
Output port Qty	2−port
Output current signal	0...20mA
Max output current signal	26mA
Current output load resistance	RL< 600Ω



RSI-S-M-L-1-1-2（R221112）

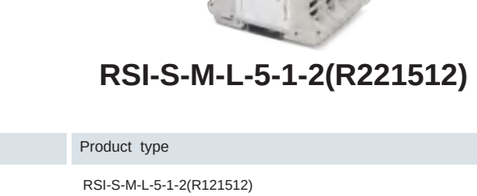
RSI-S-M-L-1-1-2(R221112) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input current source 0...20mA signal and output 0...20mA isolating standard analogue signal，suitable for installation on the DIN35 U type standard rail.

RSI-S-M-L-5-1-...
Signal isolators



RSI-S-M-L-5-1-2(R221512)

Description	Product type
RTP Signal Isolators	RSI-S-M-L-5-1-2(R121512)
Basic data	
Input/output port	One input, One output
Output accuracy（20℃）	0.1%F.S.(Typical value：0.05%F.S)
Temperature drift	0.005%F.S./℃
Response time	0.5ms Reach the final value 90%
Dielectric strength	1.5kVrms AC(50 Hz,1min)（Power supply，Input，Output）
Insulation resistance	⩾ 100MΩ; 500V DC(Power supply，Input，Enclosed）
EMC	Accord with IEC 61326-1(GB/T 18268)
Weight	97.5g
Connection device	Sensor,Current source
Power supply	
Power supply voltage	24V DC
Power supply voltage range	18...30V DC
Consume current	< 120mA(24V Power supply，20mAoutput current）
Power supply mode	Terminal independence power supply
Power protection	Reverse direction protection
Status indicator	Green LED
Input data	
Input port Qty	1-port
Input voltage signal	0...10V
Input impedance	⩾ 90KΩ
Output data	
Output port Qty	2-port
Output current signal	0...20mA
Max output current signal	28mA
Current output load resistance	RL< 600Ω



RSI-S-M-L-5-1-2 (R221512)

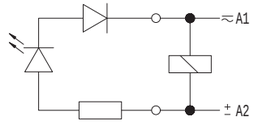
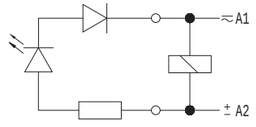
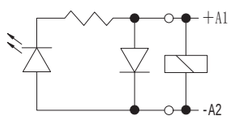
RSI-S-M-L-5-1-2(R221512) are 3 ports isolating Amplifier, for electrical isolation of analogue signal, input voltage source 0...10V signal and provided 0...20mA isolating standard analogue signal to output port, suitable for installation on the DIN35 U type standard rail.

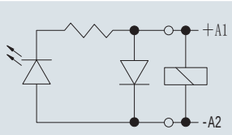
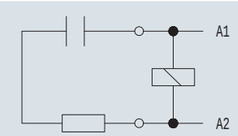
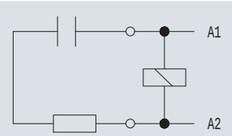
Take Notes

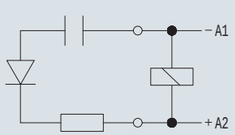
AR-M-LR...
Annex

>> Protection module



Description	AR-M-LRD1	AR-M-LRD2	AR-M-LRB1
Built-in components	LED+R+D	LED+R+D	LED+D*2
Applied voltage	6-24VAC/DC	110-240VAC/DC	6-24VAC/DC
Applied socket	S type and M type	S type and M type	S type and M type
Diagram			

Description	AR-M-LRB2	AR-M-RC1	AR-M-RC2
Built-in components	LED+D*2	R+C	LED+R+D
Applied voltage	110-240VAC/DC	6-24VAC	110-240VAC
Applied socket	S type and M type	S type and M type	S type and M type
Diagram			

Description	AR-M-D		
Built-in components	LED+R+D		
Applied voltage	110-240VAC/DC		
Applied socket	S type and M type		
Diagram			

Annex

>> Clamp spring






Description	AR-C-M1	AR-C-M2	AR-C-M3	AR-C-M4
Material	Metal leaf spring	Metal wire spring	Metal wire spring	Metal leaf spring
Applied socket	SRM-2E SRM-4E SRL-2E SRL-3E SRL-4E	SRM-2M SRM-4M SRM-2S SRM-4S	SRM-2P SRM-4P SRL-2P SRL-3P SRL-4P	SRL-3E SRL-4E

>> Clamp spring






Description	AR-C-M5	AR-C-P1	AR-C-P2	AR-C-P3
Material	Metal wire spring	Plastic spring （Height 34–36mm）	Plastic spring （Height 15–16mm）	Plastic spring
Applied socket	SRC-1P SRC-2P	SRM-2M SRM-4M SRM-2S SRM-4S SRM-2SP、SRM-4SP SRL-2SP	SRC-1S SRC-2S	SRJ-1E SRJ-2E

Annex

>> Bridge





Description	AR-B-1	AR-B-2	ZB6	
Material	Plastic	Plastic	Plastic	
Applied socket	SRJ-1S SRJ-2S SRJ-1SP SRJ-2SP SRC-1S SRC-2S	SRM-2M SRM-4M SRM-2S SRM-4S	RTP-...系列底座	

>> Bridge






Description	FBST 2-6	FBS10-6	AR-Q-2	AR-Q-3
Material	metal+plastic	metal+plastic	metal+plastic	metal+plastic
Applied socket	For RTP-T-...	For RTP-S-...	SRJ-1E SRJ-2E	SRJ-1S SRJ-2S SRC-1M SRC-2M

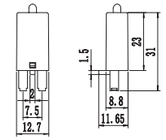
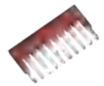
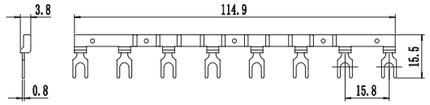
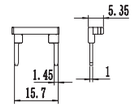
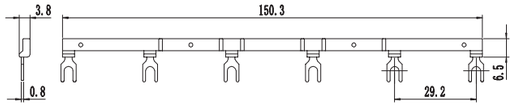
>> Bridge





Description	AR-Q-4	AR-Q-5	AR-Q-6	
Material	metal+plastic	metal+plastic	metal+plastic	
Applied socket	SRM-2E SRL-2E	SRM-4E	SRM-2M SRM-4M SRM-2S SRM-4S	

Dimension

Protectection module+bridge	Dimension(mm)
Protection module 	
FBS10-6 	
AR-Q-2 	
AR-Q-3 	
AR-Q-4 	
AR-Q-5 	
AR-Q-6 	