

PCM series distribution module

Corporate Culture

Vision:

To make our company to be one of the leading enterprises in the industry of our domestic master-control electrical appliances with low-voltage and the construction machinery lighting.

Our Mission:

To provide customers with the best quality, the shortest delivery period, the best cost-effective products and optimal service!

Values:

Customer-oriented, never forget the mission; Pragmatic innovation, win-win cooperation!



Company Profile



Jiangyin Changjiang was built in 1992, the first company who designed the low voltage signal lamp with LED technology, and it was been used and produced. At the same time, created the brand of “Changjiang Electric Appliance” and gradually build it into a famous brand in China.

After 30 years of trials and hardships, the company has developed into a leader in the lighting industry of electrical appliances and construction machinery. The main products include: signal lamp, button, transfer switch, current transformer and construction machinery lighting, etc., widely used in the electric power, construction machinery, industrial control, elevator, communication, rail transit, new energy and other industries. The company's products are novel in design and reliable in performance, which are widely recognized by downstream customers, including many well-known enterprises.

We adhere to be customer-oriented, rapidly response to our customers' non-standard customization needs, and strive to provide excellent solutions for customers; We adhere to the technical innovation as the support, and constantly expand our R&D team to focus on the product's development and upgrading; We insist on doing excellence in every detail, continuous optimization and improvement, and strive to provide superior quality and service for customers.

公司资质 ENTERPRISE QUALIFICATION

ENTERPRISE HONOR HONOR ARTICLES



Design patent

PT switching module-2021304485939

PT secondary module-2021304486039

JG operating module-2021304344428

JG secondary module-2021304485854

Utility model patent

PT switching module-2021216162764

JG secondary module-2021216162707

Pending patent

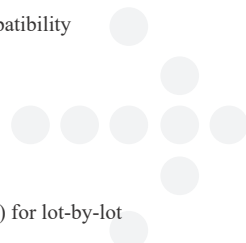
Miniaturized JG secondary module-2022301688531

CONTENTS

● Technology specification	1
● PT switching module	2
● PT secondary module	4
● JG operating module	6
● JG secondary module (centralized)	8
● JG secondary module (decentralized)	11
● Miniaturized JG secondary module (centralized)	14
● Miniaturized JG secondary module (decentralized)	18
● Standard line length schedule	18

According to the following standards, our company carries out standardized module design for primary and secondary combined ring main unit.

GB/T2423.1	Environmental testing - Part 2: Test methods - Tests A: Cold
GB/T2423.2	Environmental testing - Part 2: Test methods - Tests B: Dry heat
GB/T11022	Common specifications for high-voltage alternating-current switchgear and controlgear standards
GB/T5169.11	Fire hazard testing for electric and electronic products—Part 11: Glowing/hot-wire based test methods—Glow-wire flammability test method for end-products (GWEPT)
GB/T14048.5	Low-voltage switchgear and controlgear—Part 5-1: Control circuit devices and switching element—Electromechanical
GB/T4208	Degrees of protection provided by enclosure(IP code)
GB/T2423.17	Environmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist
GB/T2423.10	Environmental testing—Part 2:Test methods—Test Fc:Vibration(sinusoidal)
GB/T2423.5	Environmental testing—Part 2: Test methods—Test Ea and guidance: Shock
GB/T5095.6	Electromechanical components for electronic equipment--Basic testing proceduresand measuring methods--Part 6:Climatic tests and soldering tests
GB/T13729	Remote terminal unit equipment
GB/T15153.1	Telecontrol equipment and systems—Part 2: Operating conditions—Section 1: Power supply and electromagnetic compatibility
GB/T35732	Technical specifications of intelligent remote terminal unit of distribution automation
GB/T17626.4	Electromagnetic compatibility—Testing and measurement techniques—Electrical fast transient/burst immunity test
GB/T17626.5	Electromagnetic compatibility—Testing and measurement techniques—Surge immunity test
GB/T17626.2	Electromagnetic compatibility—Testing and measurement techniques—Electrostatic discharge immunity test
GB/T2828.1	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection



Module for Distribution Terminal Unit

Characteristic

- Integrated modular design, simple and elegant appearance;
- Fast and convenient installation, efficient operation and maintenance;
- Module seal design, through the rectangular connector connection, anti-condensation performance is outstanding;



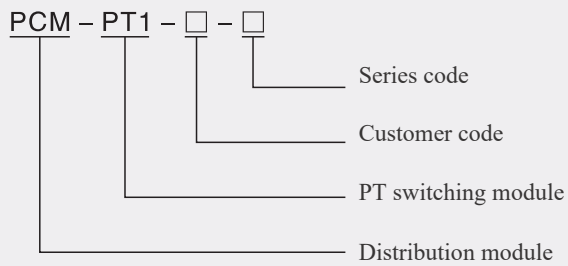
Technology specification

Installation		Snap (PT1, JG1), Screw (PT2, JG3, JG3S, JG2)			
Material		ABS			
Temperature		-40°C~+70°C, Max conversion rate °C/min: 1.0			
Humidity		Relative humidity %: 10~100, Max absolute humidity g/m ³ : 35			
Altitude	GB/T 11022	≤3000m, customized high altitude			
Salt spray	GB/T 2423.17	96h			
Flame resistance	GB/T 5169.11	Fixed current-carrying component: 750°C, Others: 650°C			
Protection	GB/T 4208	IP65			
Vibration	GB/T 2423.10	Frequency: 10-500Hz, Acceleration: 20m/s ²			
Shock	GB/T 2423.5	Peak acceleration: 294m/s ²			
Damp heat	GB/T 2423.3	48h			
Rated short thermal current		Short time overinput current: 100A, tiem: 1s, 5 times, interval time: 300s			
Insulation voltage	GB/T 5095.6	Withstand the insulation strength test of 50Hz AC test voltage for 1min, no breakdown, no flashover phenomenon			
		Rated insulation voltage U_i (V)	Effective value of test voltage (V)		
		$U_i \leq 60$	500		
		$60 < U_i \leq 125$	1000		
Surge voltage	GB/T 2423.5	Withstand the following requirements of impulse voltage, impulse voltage pulse waveform is 1.2/50 μ s, positive and negative polarity is applied 5 times, the interval between two pulses is not less than 5s			
		Rated insulation voltage (V)	Effective value of test voltage (V)	Rated insulation voltage (V)	Effective value of test voltage (V)
		$U \leq 60$	1000	$125 < U \leq 250$	5000
		$60 < U \leq 125$	5000	$250 < U \leq 400$	6000
Electrical fast transient/burst immunity	GB/T 17626.4	a)Class: 4 ;			
		b)Test voltage: power circuit 4kV, others: 2kV			
		c)Frequency: 5kHz或100kHz			
		d)Times : 1 minute per time			
		e)Test voltage application times: positive 3 times and negative 3 times			
Surge immunity	GB/T 17626.5	a)Class: 4			
		b)Test voltage: L-L 2kV, L-G 4kV			
		c)Waveform: 1.2/50 μ s			
		d)Polarity: positive, negative			
		e)Test times: positive 5 times and negative 5 times			
		f)Frequency: 1 time per minute			
Electrostaic discharge immunity	GB/T 17626.2	Apply the electrostatic discharge voltage according to the following provisions, positive and negative polarity discharge 10 times, each discharge interval is at least 1s			
		Test item	Class	Test value	
				Contact	Air
	4	±8kV	±15kV		

PT switching module



Model



Function

- The function module that switches the output of the three-phase measurement voltage of the voltage transformer arbitrarily.

Pin definition

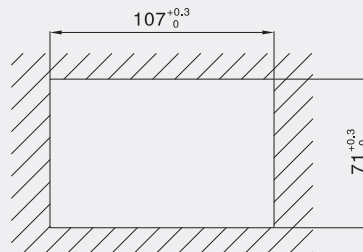
Input pin

Pin	Label	Description
5	Ua	Measuring voltage
6	Ub	
7	Uc	
8	Un	

Output pin

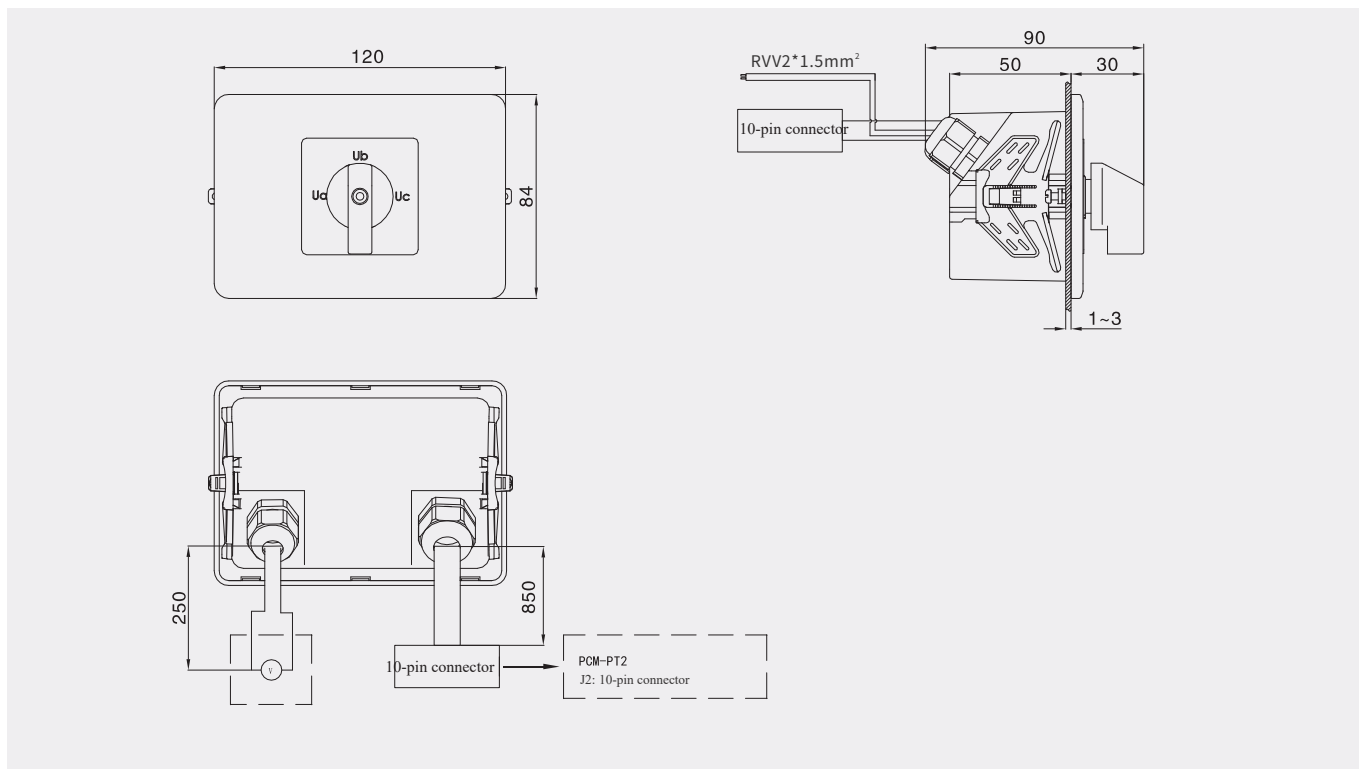
Pin	Label	Description
1	U	Meter voltage
2	Un	

Mounting hole size



● $107^{+0.3}_0 \times 71^{+0.3}_0$

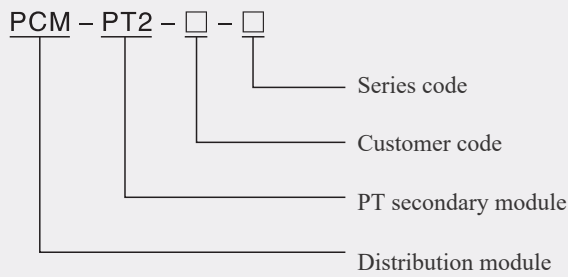
Outline drawing



PT secondary module



Model



Function

- The voltage is transmitted from the voltage transformer to the DTU and PT switching module through the rectangular connector connection.

Pin definition

Up-line 32-pin + rectangular connector 1-pin definition

Pin	Label	Description
1	/	/
2	/	/
3	/	/
4	/	/
5	/	/
6	/	/
7	/	/
8	/	/
9	U _{1a}	AC power input
10	U _{1b}	
11	U _{1c}	
12	BY	Standby
13	U _a	A-phase voltage (Measurement/ metrology)
14	U _b	B-phase voltage (Measurement/ metrology)
15	U _c	C-phase voltage (Measurement/ metrology)
16	U _n	Phase voltage com pin
17	U ₀	Zero sequence voltage

Pin	Label	Description
18	U _{0n}	Zero sequence voltage common pin
19	/	/
20	/	/
21	/	/
22	/	/
23	/	/
24	/	/
25	/	/
26	/	/
27	/	/
28	/	/
29	/	/
30	/	/
31	/	/
32	/	/
33	GND	Ground

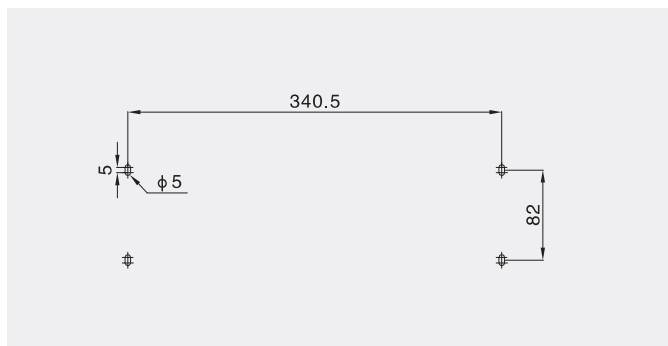
Down-line rectangular connector 10-pin definition

Pin	Label	Description
1	U1a	AC power supply
2	U1b	
3	U1c	
4	U1n	
5	Ua	A-phase voltage (Measurement/metrology)
6	Ub	B-phase voltage (Measurement/ metrology)
7	Uc	C-phase voltage (Measurement/ metrology)
8	Un	Phase voltage common pin
9	U0	Zero sequence voltage
10	U0n	Zero sequence voltage common pin

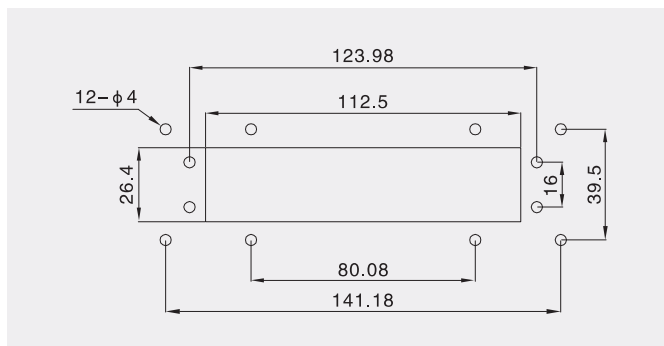
Up-line rectangular connector 10-pin definition

Pin	Label	Description
1	/	/
2	/	
3	/	
4	/	
5	Ua	A-phase voltage (Measurement/metrology)
6	Ub	B-phase voltage (Measurement/ metrology)
7	Uc	C-phase voltage (Measurement/ metrology)
8	Un	Phase voltage common pin
9	/	/
10	/	/

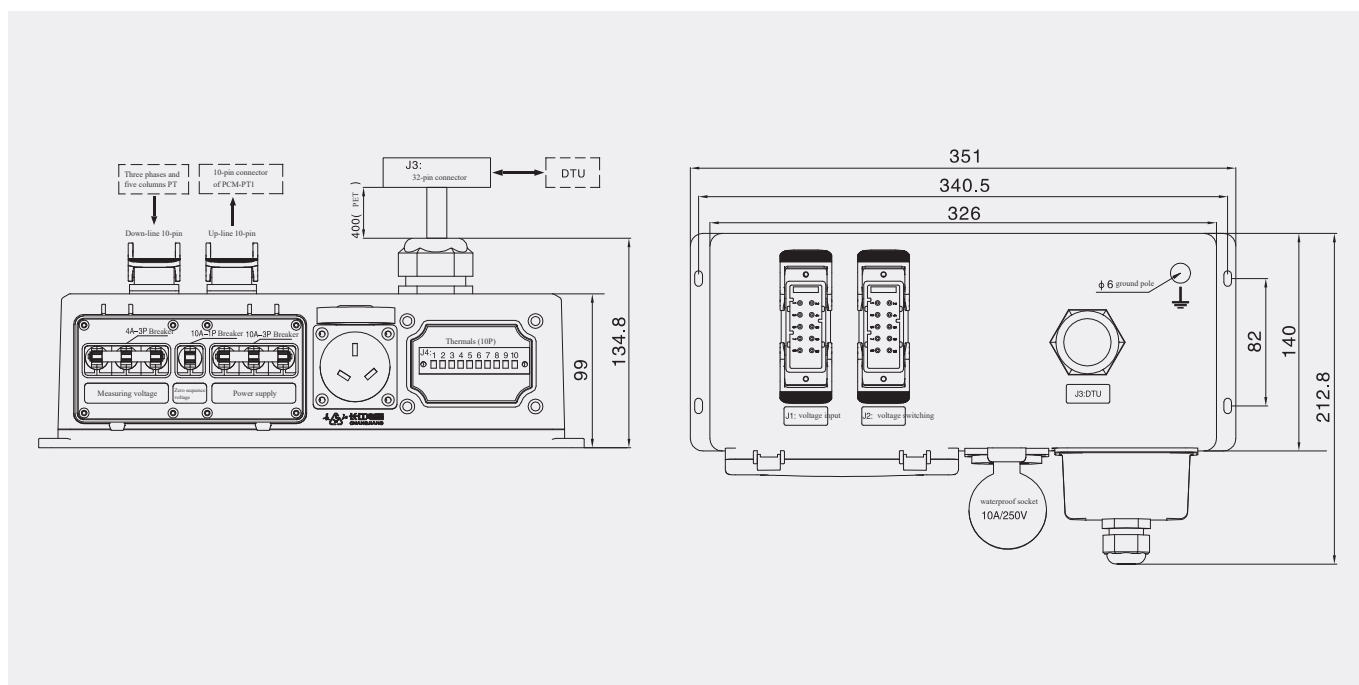
Module mounting hole size



32-pin connector assembly size (32DZA)



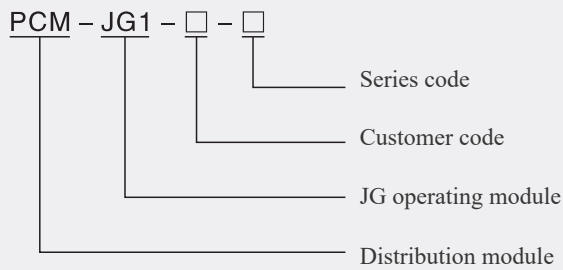
Outline diagram



JG operating module



Model



Function

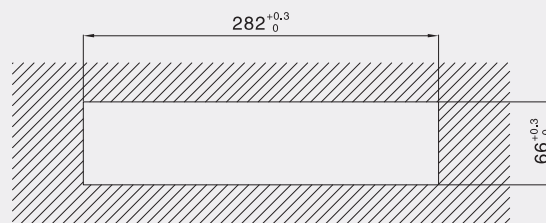
- The rectangular connector is connected with the interval secondary module to realize the opening and closing operation of the primary and secondary fusion ring network cabinet, the opening and closing indication, and the remote and local control of the inlet/outlet interval module.

Pin definition

Pin	Mark	Description	Cable	Note
1	Ycom	Positive com pin	RV1.5mm ²	
2	YSA3	Remote operate	RV1.5mm ²	
3	SHCZ	Manual closing operate	RV1.5mm ²	
4	SFCZ	Manual opening operate	RV1.5mm ²	
5	FD	Opening indicator lamp	RV1.5mm ²	
6	HD	Closing indicator lamp	RV1.5mm ²	
7	SA3+	Remote communication + pin	RV1.5mm ²	
8	SA3-	Remote communication - pin	RV1.5mm ²	

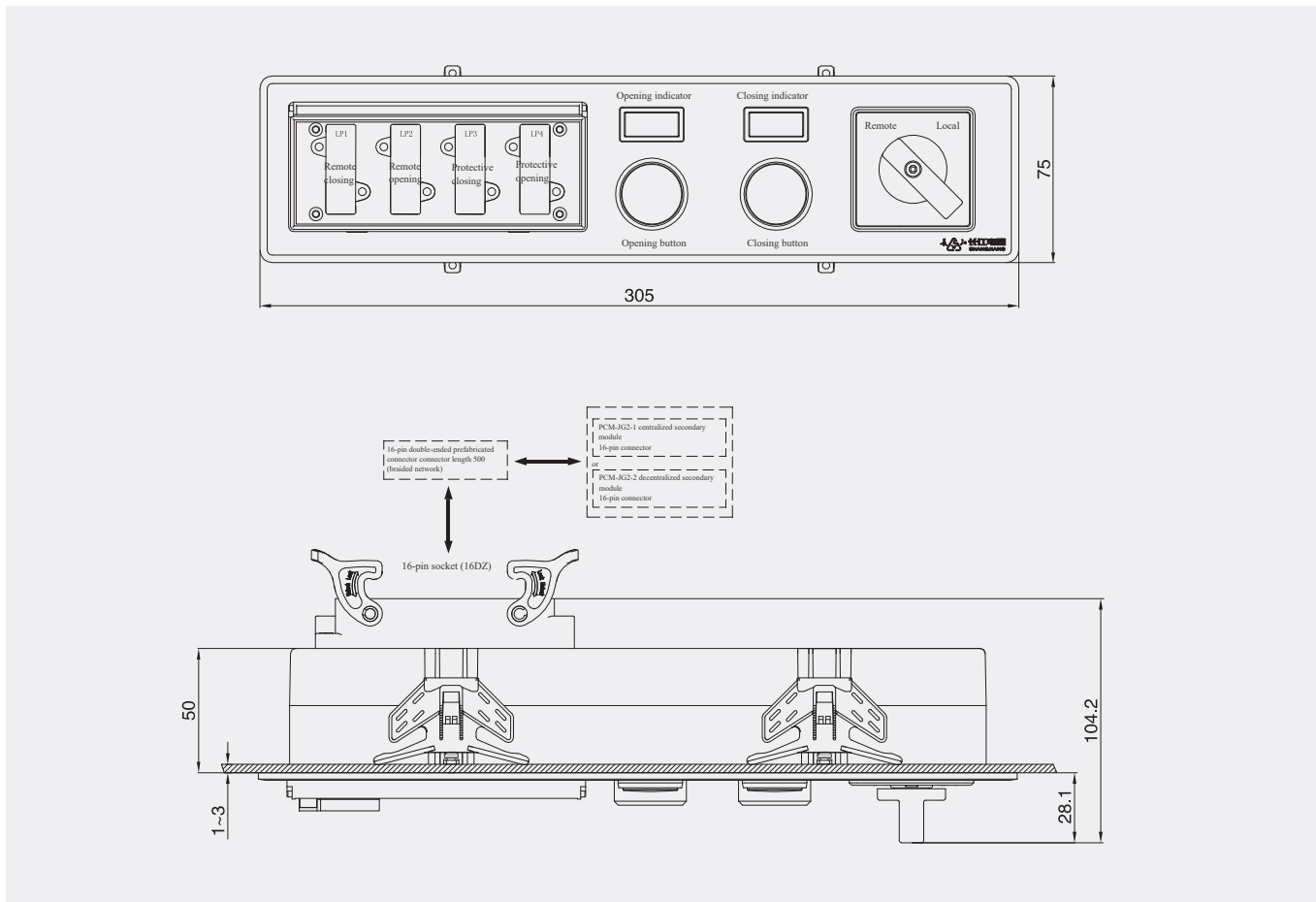
Pin	Mark	Description	Cable	Note
9	YHCZ+	Remote control closing pressing plate	RV1.5mm ²	
10	YHCZ-	Remote control closing pressing plate	RV1.5mm ²	
11	YFCZ+	Remote control opening pressing plate	RV1.5mm ²	
12	YFCZ-	Remote control opening pressing plate	RV1.5mm ²	
13	DHCZ+	Protective closing plate	RV1.5mm ²	
14	DHCZ-	Protective closing plate	RV1.5mm ²	
15	DFCZ+	Protective trip-out plate	RV1.5mm ²	
16	DFCZ-	Protective trip-out plate	RV1.5mm ²	

Mounting hole size



● 282^{+0.3}₀ × 66^{+0.3}₀

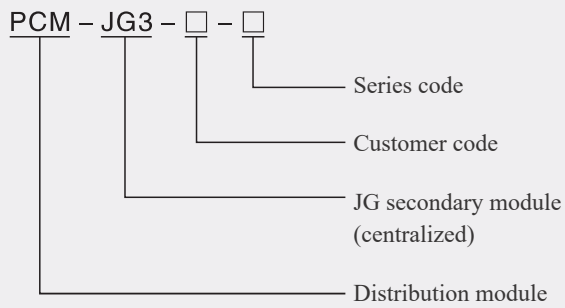
Outline diagram



JG secondary module (centralized)



Model



Function

- Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function.

Pin definition

Up-line rectangular connector 32-pin definition (DTU)

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1					
2					
3					
4					
5					
6					
7					
8					
9	KM+	48V power +	RVVP1.5mm ²	RV1.5mm ²	Decentralized: N/A
10	KM-	48V power -	RVVP1.5mm ²	RV1.5mm ²	Decentralized: N/A
11	KHZ	Remote control closing output	RVVP1.5mm ²	RV1.5mm ²	Relay control output
12	KFZ	Remote control opening output	RVVP1.5mm ²	RV1.5mm ²	
13	KCOM	Remote control com output	RVVP1.5mm ²	RV1.5mm ²	
14	DHZ	Protective control closing output	RVVP1.5mm ²	RV1.5mm ²	Relay control output
15	DFZ	Protective control opening output	RVVP1.5mm ²	RV1.5mm ²	
16	DCOM	Protective control com output	RVVP1.5mm ²	RV1.5mm ²	

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm ²	RV1.0mm ²	
18	GKW	Main switch position	RVVP1.0mm ²	RV1.0mm ²	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm ²	RV1.0mm ²	
20	KZHLBJ	Warning of control circuit	RVVP1.0mm ²	RV1.0mm ²	
21	WCN	Unstored energy position	RVVP1.0mm ²	RV1.0mm ²	
22	YF	Remote/Local	RVVP1.0mm ²	RV1.0mm ²	
23	HW	Closing position	RVVP1.0mm ²	RV1.0mm ²	
24	FW	Opening position	RVVP1.0mm ²	RV1.0mm ²	
25	Ia+	A-phase current +	RVVP2.5mm ²	RV2.5mm ²	
26	Ia-	A-phase current -	RVVP2.5mm ²	RV2.5mm ²	
27	Ib+	B-phase current +	RVVP2.5mm ²	RV2.5mm ²	
28	Ib-	B-phase current -	RVVP2.5mm ²	RV2.5mm ²	
29	Ic+	C-phase current +	RVVP2.5mm ²	RV2.5mm ²	
30	Ic-	C-phase current -	RVVP2.5mm ²	RV2.5mm ²	
31	I0+	Zero sequence current +	RVVP2.5mm ²	RV2.5mm ²	
32	I0-	Zero sequence current -	RVVP2.5mm ²	RV2.5mm ²	
33	GND	Grounding		RV2.5mm ²	

Down-line rectangular connector 32-pin definition (connect to organ and CT)

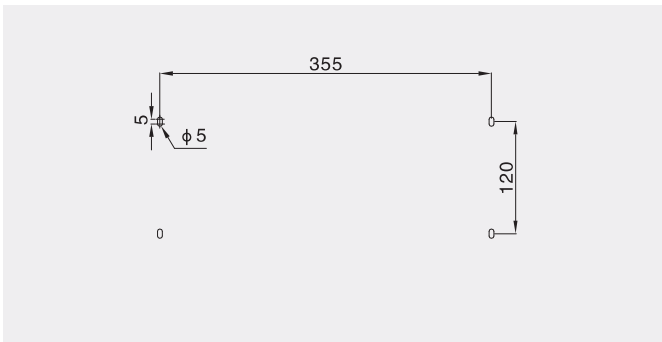
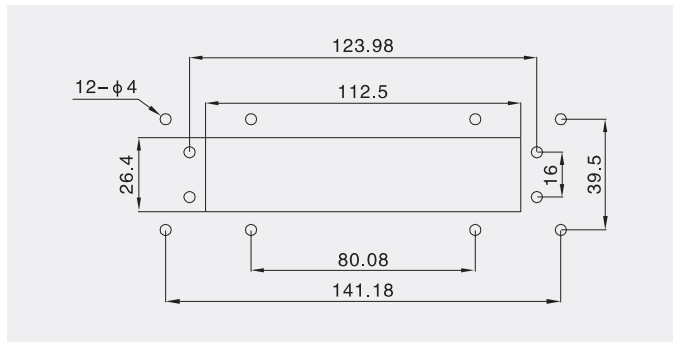
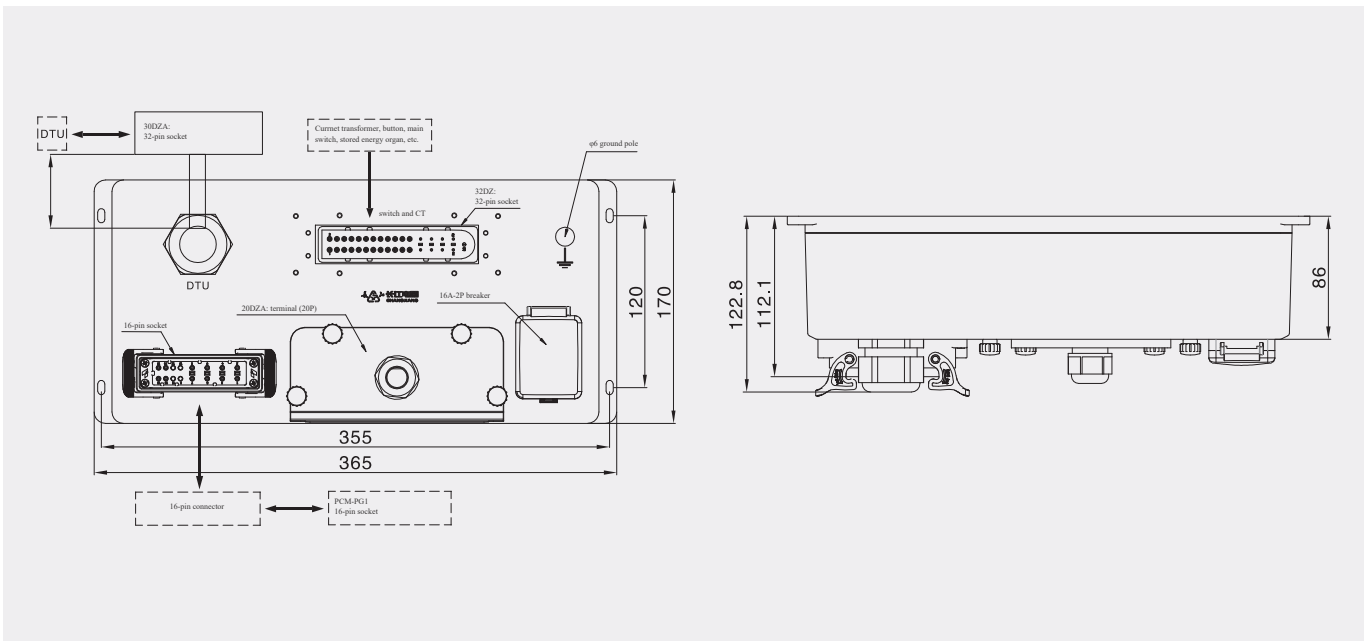
Pin	Mark	Description	Cable	Note
1	HW1-	Closing position +	RV1.5mm ²	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm ²	For opening indicator lamp
3	Y3com	Com	RV1.5mm ²	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
6	HW2+	Closing position +	RV1.5mm ²	For opening circuit
7	HW2-	Closing position -	RV1.5mm ²	For opening circuit
8	FW2+	Opening position +	RV1.5mm ²	For closing circuit
9	FW2-	Opening position -	RV1.5mm ²	For closing circuit
10	HZ+	Closing	RV1.5mm ²	
11	FZ+	Opening	RV1.5mm ²	
12	HFZ-	Com for closing and opening	RV1.5mm ²	
13	CN+	Stored energy	RV1.5mm ²	
14	CN-	Stored energy	RV1.5mm ²	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm ²	DC24V+
17	HW3	Closing position	RV1.5mm ²	

Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm ²	
19	GKW	Main switch position	RV1.5mm ²	
20	DKW	Grounding switch position	RV1.5mm ²	
21	WCN	Unstored energy position	RV1.5mm ²	
22	DQYBJ	Warning of control circuit	RV1.5mm ²	
23		Standby		
24		Standby		
25	Ia+	A-phase current +	RV2.5mm ²	
26	Ia-	A-phase current -	RV2.5mm ²	
27	Ib+	B-phase current +	RV2.5mm ²	
28	Ib-	B-phase current -	RV2.5mm ²	
29	Ic+	C-phase current +	RV2.5mm ²	
30	Ic-	C-phase current -	RV2.5mm ²	
31	I0+	Zero sequence current +	RV2.5mm ²	
32	I0-	Zero sequence current -	RV2.5mm ²	
33	GND	Grounding	RV2.5mm ²	

Phoenix terminal 20-pin definiton

Pin	Mark	Description	Cable	Note
1				
2				
3	KM+	KM+ 48V+	RV1.5mm ²	
4	KM-	KM- 48V-	RV1.5mm ²	
5	KM+	KM+ 48V+	RV1.5mm ²	
6	KM-	KM- 48V-	RV1.5mm ²	
7				
8				
9				
10				

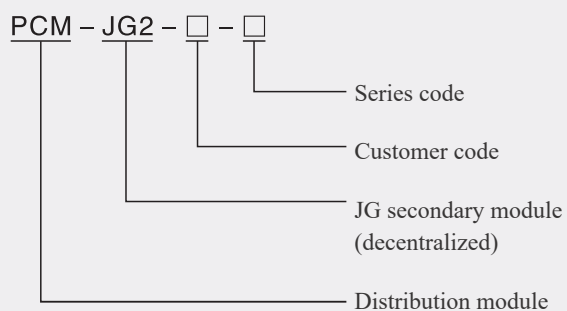
Pin	Mark	Description	Cable	Note
11				
12				
13				
14				
15	PA1+	A-phase ammeter	RV2.5mm ²	
16	PA1-	A-phase ammeter	RV2.5mm ²	
17	PA2+	B-phase ammeter	RV2.5mm ²	
18	PA2-	B-phase ammeter	RV2.5mm ²	
19	PA3+	C-phase ammeter	RV2.5mm ²	
20	PA3-	C-phase ammeter	RV2.5mm ²	

Module mounting hole size

32-pin connecter assembly size (32DZA)

Outline diagram


JG secondary module (decentralized)



Model



Function

- Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function.

Pin definition

Up-line rectangular connector 32-pin definition (DTU)

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1	Ua	A-phase voltage + (Measurement/metrology)	RV1.5mm ²		Centralized: N/A
2	Ub	B-phase voltage + (Measurement/ metrology)	RV1.5mm ²		Centralized: N/A
3	Uc	C-phase voltage + (Measurement/ metrology)	RV1.5mm ²		Centralized: N/A
4	Un	Phase voltage com pin	RV1.5mm ²		Centralized: N/A
5	U0+	Zero sequence voltage	RV1.5mm ²		Centralized: N/A
6	U0-	Zero sequence voltage com	RV1.5mm ²		Centralized: N/A
7	PW+	24V power +	RV1.5mm ²		Centralized: N/A
8	PW-	24V power -	RV1.5mm ²		Centralized: N/A
9	PPS+	pulse per second +	RV1.0mm ²		Differential pulse
10	PPS-	pulse per second -	RV1.0mm ²		Differential pulse
11	KHZ	Remote control closing output	RV1.5mm ²		
12	KFZ	Remote control opening output	RV1.5mm ²		Relay control output
13	KCOM	Remote control com	RV1.5mm ²		
14	DHZ	Protective control closing output	RV1.5mm ²		
15	DFZ	Protective control opening output	RV1.5mm ²		Relay control output
16	DCOM	Protective control com	RV1.5mm ²		

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RV1.0mm ²		
18	GKW	Main switch position	RV1.0mm ²		Remote communication positive power (+24V)
19	DKW	Grounding switch position	RV1.0mm ²		
20	KZHLBJ	Warning of control circuit	RV1.0mm ²		
21	WCN	Unstored energy position	RV1.0mm ²		
22	YF	Remote/Local	RV1.0mm ²		
23	HW	Closing position	RV1.0mm ²		
24	FW	Opening position	RV1.0mm ²		
25	Ia+	A-phase current +	RV2.5mm ²		
26	Ia-	A-phase current -	RV2.5mm ²		
27	Ib+	B-phase current +	RV2.5mm ²		
28	Ib-	B-phase current -	RV2.5mm ²		
29	Ic+	C-phase current +	RV2.5mm ²		
30	Ic-	C-phase current -	RV2.5mm ²		
31	I0+	Zero sequence current +	RV2.5mm ²		
32	I0-	Zero sequence current -	RV2.5mm ²		
33	GND	Grounding			

Down-line rectangular connector 32-pin definition (connect to organ and CT)

Pin	Mark	Description	Cable	Note
1	HW1-	Closing position +	RV1.5mm ²	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm ²	For opening indicator lamp
3	Y3com	Com	RV1.5mm ²	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
6	HW2+	Closing position +	RV1.5mm ²	For opening circuit
7	HW2-	Closing position -	RV1.5mm ²	For opening circuit
8	FW2+	Opening position +	RV1.5mm ²	For closing circuit
9	FW2-	Opening position -	RV1.5mm ²	For closing circuit
10	HZ+	Closing	RV1.5mm ²	
11	FZ+	Opening	RV1.5mm ²	
12	HFZ-	Com for closing and opening	RV1.5mm ²	
13	CN+	Stored energy	RV1.5mm ²	
14	CN-	Stored energy	RV1.5mm ²	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm ²	DC24V+
17	HW3	Closing position	RV1.5mm ²	

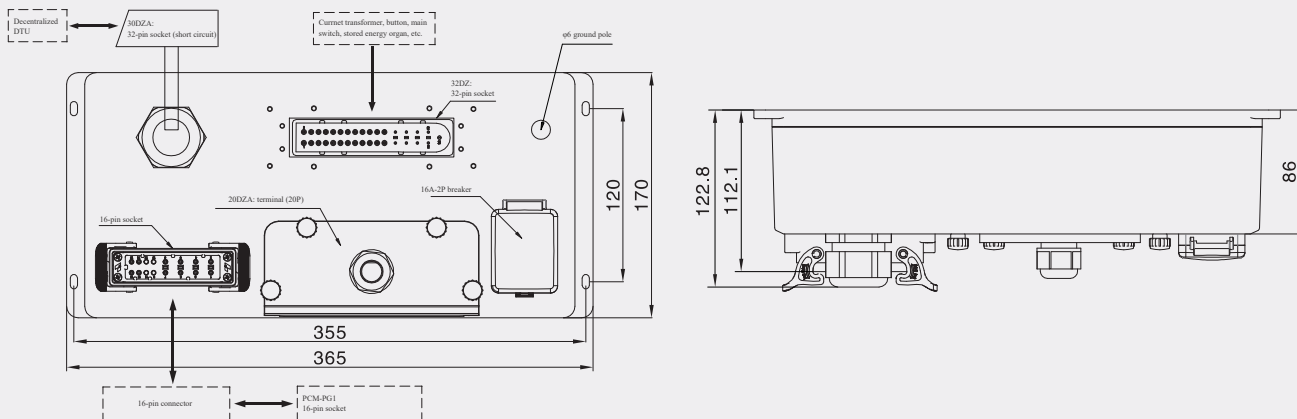
Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm ²	
19	GKW	Main switch position	RV1.5mm ²	
20	DKW	Grounding switch position	RV1.5mm ²	
21	WCN	Unstored energy position	RV1.5mm ²	
22	DQYBJ	Warning of control circuit	RV1.5mm ²	
23		Standby		
24		Standby		
25	Ia+	A-phase current +	RV2.5mm ²	
26	Ia-	A-phase current -	RV2.5mm ²	
27	Ib+	B-phase current +	RV2.5mm ²	
28	Ib-	B-phase current -	RV2.5mm ²	
29	Ic+	C-phase current +	RV2.5mm ²	
30	Ic-	C-phase current -	RV2.5mm ²	
31	I0+	Zero sequence current +	RV2.5mm ²	
32	I0-	Zero sequence current -	RV2.5mm ²	
33	GND	Grounding	RV2.5mm ²	

Phoenix terminal 20-pin definiton

Pin	Mark	Description	Cable	Note
1	PW+	PW+	24V+	RV1.5mm ²
		PW+		
2	PW-	PW-	24V-	RV1.5mm ²
		PW-		
3	KM+	KM+	48V+	RV1.5mm ²
		KM+		
4	KM-	KM-	48V-	RV1.5mm ²
		KM-		
5	KM+	KM+	48V+	RV1.5mm ²
		KM+		
6	KM-	KM-	48V-	RV1.5mm ²
		KM-		
7	Ua	Ua	A-phase voltage	RV1.5mm ²
		Ua		
8	Ub	Ub	B-phase voltage	RV1.5mm ²
		Ub		
9	Uc	Uc	C-phase voltage	RV1.5mm ²
		Uc		
10	Un	Un	Com	RV1.5mm ²
		Un		

Pin	Mark	Description	Cable	Note
11	U0	U0	Zero sequence voltage	RV1.5mm ²
		U0		
12	U0n	U0n	Zero sequence voltage	RV1.5mm ²
		U0n		
13	PPS+	PPS+	pulse per second	
		PPS+		
14	PPS-	PPS-	pulse per second	
		PPS-		
15	PA1+		A-phase ammeter	RV2.5mm ²
16	PA1-		A-phase ammeter	RV2.5mm ²
17	PA2+		B-phase ammeter	RV2.5mm ²
18	PA2-		B-phase ammeter	RV2.5mm ²
19	PA3+		C-phase ammeter	RV2.5mm ²
20	PA3-		C-phase ammeter	RV2.5mm ²

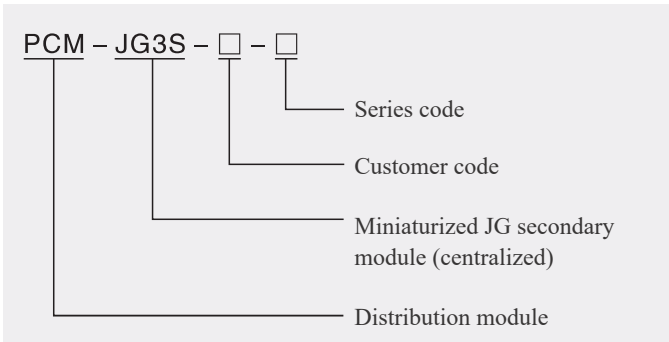
Module mounting hole size

Outline diagram


Miniaturized JG secondary module (centralized)



Model



Function

- Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function. By adjusting the installation mode, adapt to the mainstream compact cabinet

Pin definition

Up-line rectangular connector 32-pin definition (DTU)

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1					
2					
3					
4					
5					
6					
7					
8					
9	KM+	48V power +	RVVP1.5mm ²	RV1.5mm ²	Decentralized: N/A
10	KM-	48V power -	RVVP1.5mm ²	RV1.5mm ²	Decentralized: N/A
11	KHZ	Remote control closing output	RVVP1.5mm ²	RV1.5mm ²	Relay control output
12	KFZ	Remote control opening output	RVVP1.5mm ²	RV1.5mm ²	
13	KCOM	Remote control com output	RVVP1.5mm ²	RV1.5mm ²	
14	DHZ	Protective control closing output	RVVP1.5mm ²	RV1.5mm ²	Relay control output
15	DFZ	Protective control opening output	RVVP1.5mm ²	RV1.5mm ²	
16	DCOM	Protective control com output	RVVP1.5mm ²	RV1.5mm ²	

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm ²	RV1.0mm ²	
18	GKW	Main switch position	RVVP1.0mm ²	RV1.0mm ²	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm ²	RV1.0mm ²	
20	KZHLBJ	Warning of control circuit	RVVP1.0mm ²	RV1.0mm ²	
21	WCN	Unstored energy position	RVVP1.0mm ²	RV1.0mm ²	
22	YF	Remote/Local	RVVP1.0mm ²	RV1.0mm ²	
23	HW	Closing position	RVVP1.0mm ²	RV1.0mm ²	
24	FW	Opening position	RVVP1.0mm ²	RV1.0mm ²	
25	Ia+	A-phase current +	RVVP2.5mm ²	RV2.5mm ²	
26	Ia-	A-phase current -	RVVP2.5mm ²	RV2.5mm ²	
27	Ib+	B-phase current +	RVVP2.5mm ²	RV2.5mm ²	
28	Ib-	B-phase current -	RVVP2.5mm ²	RV2.5mm ²	
29	Ic+	C-phase current +	RVVP2.5mm ²	RV2.5mm ²	
30	Ic-	C-phase current -	RVVP2.5mm ²	RV2.5mm ²	
31	I0+	Zero sequence current +	RVVP2.5mm ²	RV2.5mm ²	
32	I0-	Zero sequence current -	RVVP2.5mm ²	RV2.5mm ²	
33	GND	Grounding		RV2.5mm ²	

Down-line rectangular connector 32-pin definition (connect to organ and CT)

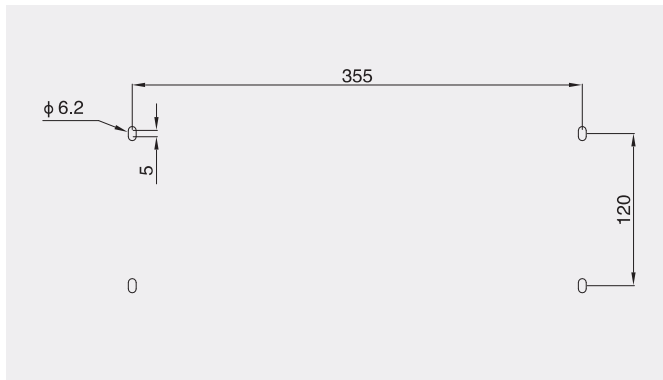
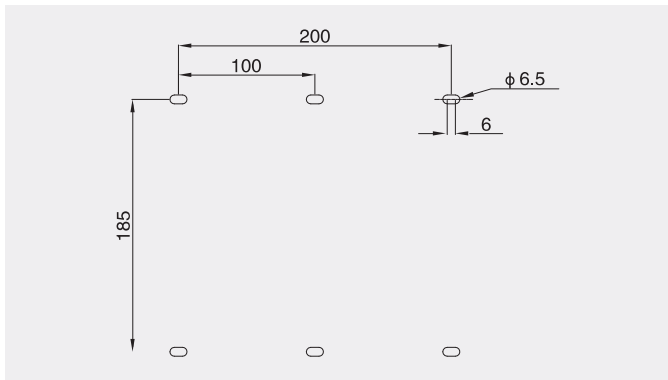
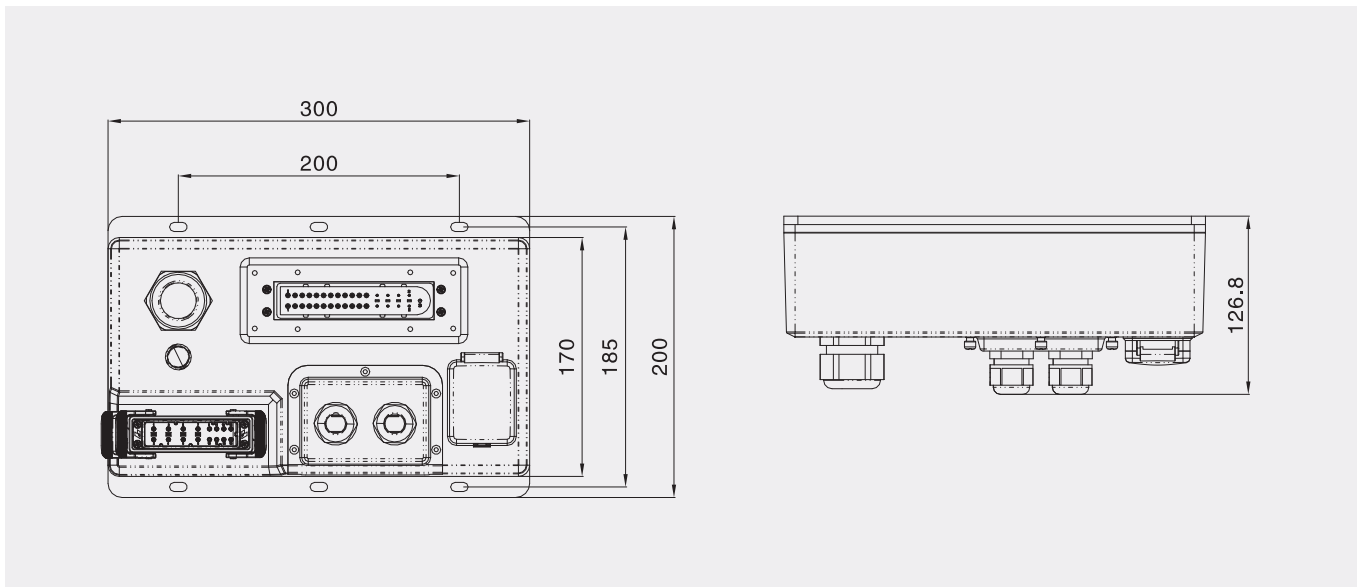
Pin	Mark	Description	Cable	Note
1	HW1-	Closing position +	RV1.5mm ²	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm ²	For opening indicator lamp
3	Y3com	Com	RV1.5mm ²	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
6	HW2+	Closing position +	RV1.5mm ²	For opening circuit
7	HW2-	Closing position -	RV1.5mm ²	For opening circuit
8	FW2+	Opening position +	RV1.5mm ²	For closing circuit
9	FW2-	Opening position -	RV1.5mm ²	For closing circuit
10	HZ+	Closing	RV1.5mm ²	
11	FZ+	Opening	RV1.5mm ²	
12	HFZ-	Com for closing and opening	RV1.5mm ²	
13	CN+	Stored energy	RV1.5mm ²	
14	CN-	Stored energy	RV1.5mm ²	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm ²	DC24V+
17	HW3	Closing position	RV1.5mm ²	

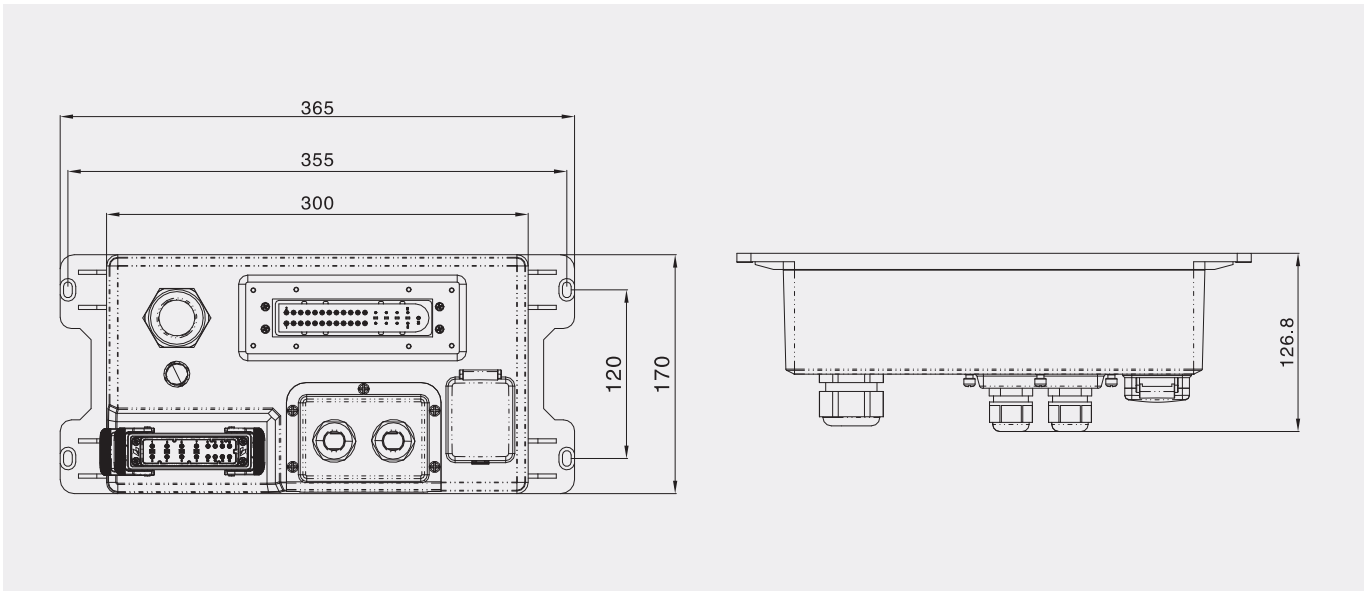
Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm ²	
19	GKW	Main switch position	RV1.5mm ²	
20	DKW	Grounding switch position	RV1.5mm ²	
21	WCN	Unstored energy position	RV1.5mm ²	
22	DQYBJ	Warning of control circuit	RV1.5mm ²	
23		Standby		
24		Standby		
25	Ia+	A-phase current +	RV2.5mm ²	
26	Ia-	A-phase current -	RV2.5mm ²	
27	Ib+	B-phase current +	RV2.5mm ²	
28	Ib-	B-phase current -	RV2.5mm ²	
29	Ic+	C-phase current +	RV2.5mm ²	
30	Ic-	C-phase current -	RV2.5mm ²	
31	I0+	Zero sequence current +	RV2.5mm ²	
32	I0-	Zero sequence current -	RV2.5mm ²	
33	GND	Grounding	RV2.5mm ²	

Phoenix terminal 20-pin definition

Pin	Mark	Description	Cable	Note
1				
2				
3	KM+	KM+ 48V+	RV1.5mm ²	
4	KM-	KM- 48V-	RV1.5mm ²	
5	KM+	KM+ 48V+	RV1.5mm ²	
6	KM-	KM- 48V-	RV1.5mm ²	
7				
8				
9				
10				

Pin	Mark	Description	Cable	Note
11				
12				
13				
14				
15	PA1+	A-phase ammeter	RV2.5mm ²	
16	PA1-	A-phase ammeter	RV2.5mm ²	
17	PA2+	B-phase ammeter	RV2.5mm ²	
18	PA2-	B-phase ammeter	RV2.5mm ²	
19	PA3+	C-phase ammeter	RV2.5mm ²	
20	PA3-	C-phase ammeter	RV2.5mm ²	

Module mounting hole size

Outline diagram




Technical highlight

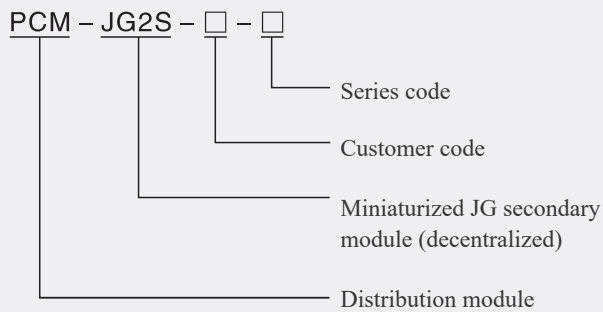
Through continuous customer advice, and under the guidance of experts in the field of ring cabinets and distribution terminals, we have optimized the design and process of the module. The technical highlights of the second generation of spacer secondary modules are as follows:

- 1, CT circuit, switch circuit, the total power supply circuit using bare copper tin process to improve the current carrying capacity, and by spraying three anti-paint to improve its sealing and prolong the service life;
- 2, optimize the current carrying and breaking capacity of the relay to avoid the failure of the switching relay or anti-jump relay caused by the fault of the operating mechanism;
- 3, optimize the layout of the circuit board, the key parts of the circuit board slotting process to ensure that its insulation strength, impact voltage resistance to meet and higher than the national standards, in high altitude areas can be assured of use;
- 4, Increase the 20-core terminal compartment, change the 14P terminal to the spring terminal fixed with ear screws, and change the 6P current terminal to the welded plate spring terminal, which not only eliminates the risk of terminal falling off, but also significantly improves the on-site wiring efficiency;
- 5, small size, up and down, left and right installation methods, perfect match mainstream cabinet and compact cabinet.

Miniaturized JG secondary module (decentralized)



Model



Function

- Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function. By adjusting the installation mode, adapt to the mainstream compact cabinet

Pin definition

Up-line rectangular connector 32-pin definition (DTU)

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1	Ua	A-phase voltage + (Measurement/metrology)	RV1.5mm ²		Centralized: N/A
2	Ub	B-phase voltage + (Measurement/ metrology)	RV1.5mm ²		Centralized: N/A
3	Uc	C-phase voltage + (Measurement/ metrology)	RV1.5mm ²		Centralized: N/A
4	Un	Phase voltage com pin	RV1.5mm ²		Centralized: N/A
5	U0+	Zero sequence voltage	RV1.5mm ²		Centralized: N/A
6	U0-	Zero sequence voltage com	RV1.5mm ²		Centralized: N/A
7	PW+	24V power +	RV1.5mm ²		Centralized: N/A
8	PW-	24V power -	RV1.5mm ²		Centralized: N/A
9	PPS+	pulse per second +	RV1.0mm ²		Differential pulse
10	PPS-	pulse per second -	RV1.0mm ²		Differential pulse
11	KHZ	Remote control closing output	RV1.5mm ²		
12	KFZ	Remote control opening output	RV1.5mm ²		Relay control output
13	KCOM	Remote control com	RV1.5mm ²		
14	DHZ	Protective control closing output	RV1.5mm ²		
15	DFZ	Protective control opening output	RV1.5mm ²		Relay control output
16	DCOM	Protective control com	RV1.5mm ²		

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm ²	RV1.0mm ²	
18	GKW	Main switch position	RVVP1.0mm ²	RV1.0mm ²	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm ²	RV1.0mm ²	
20	KZHLBJ	Warning of control circuit	RVVP1.0mm ²	RV1.0mm ²	
21	WCN	Unstored energy position	RVVP1.0mm ²	RV1.0mm ²	
22	YF	Remote/Local	RVVP1.0mm ²	RV1.0mm ²	
23	HW	Closing position	RVVP1.0mm ²	RV1.0mm ²	
24	FW	Opening position	RVVP1.0mm ²	RV1.0mm ²	
25	Ia+	A-phase current +	RVVP2.5mm ²	RV2.5mm ²	
26	Ia-	A-phase current -	RVVP2.5mm ²	RV2.5mm ²	
27	Ib+	B-phase current +	RVVP2.5mm ²	RV2.5mm ²	
28	Ib-	B-phase current -	RVVP2.5mm ²	RV2.5mm ²	
29	Ic+	C-phase current +	RVVP2.5mm ²	RV2.5mm ²	
30	Ic-	C-phase current -	RVVP2.5mm ²	RV2.5mm ²	
31	I0+	Zero sequence current +	RVVP2.5mm ²	RV2.5mm ²	
32	I0-	Zero sequence current -	RVVP2.5mm ²	RV2.5mm ²	
33	GND	Grounding		RV2.5mm ²	

Down-line rectangular connector 32-pin definition (connect to organ and CT)

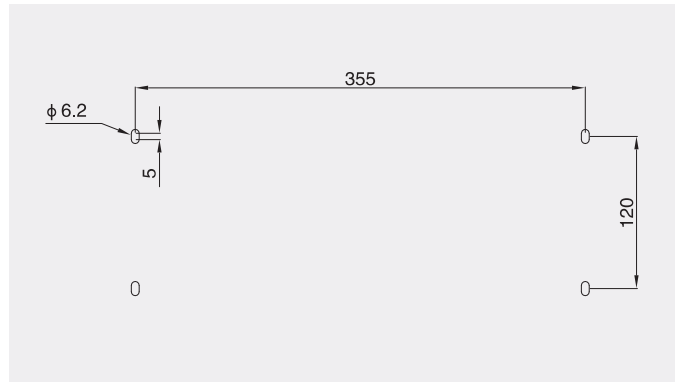
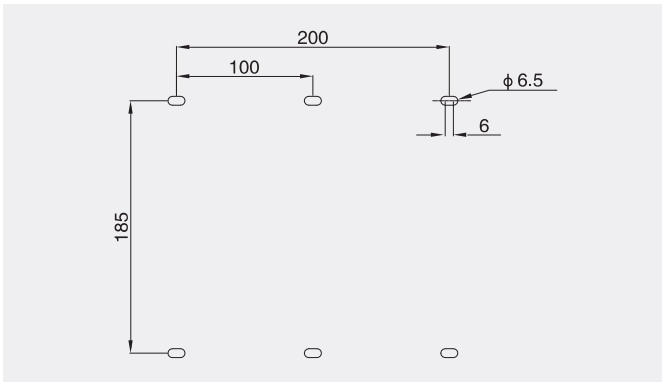
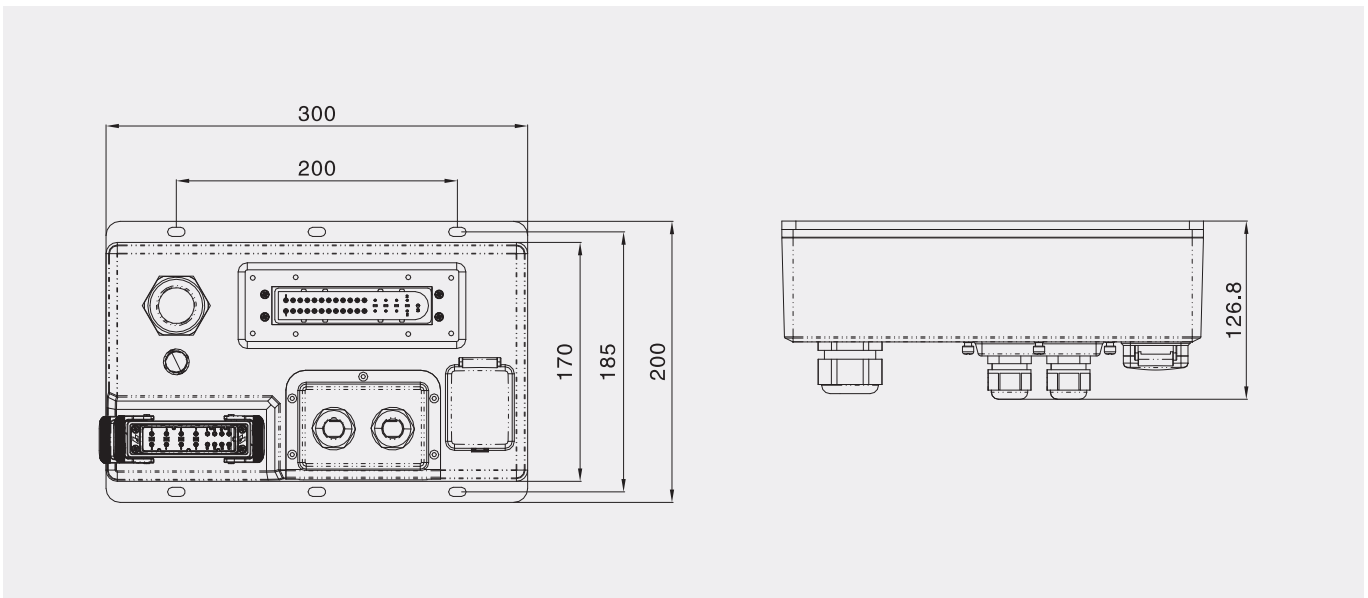
Pin	Mark	Description	Cable	Note
1	HW1-	Closing position +	RV1.5mm ²	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm ²	For opening indicator lamp
3	Y3com	Com	RV1.5mm ²	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm ²	For operating circuit
6	HW2+	Closing position +	RV1.5mm ²	For opening circuit
7	HW2-	Closing position -	RV1.5mm ²	For opening circuit
8	FW2+	Opening position +	RV1.5mm ²	For closing circuit
9	FW2-	Opening position -	RV1.5mm ²	For closing circuit
10	HZ+	Closing	RV1.5mm ²	
11	FZ+	Opening	RV1.5mm ²	
12	HFZ-	Com for closing and opening	RV1.5mm ²	
13	CN+	Stored energy	RV1.5mm ²	
14	CN-	Stored energy	RV1.5mm ²	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm ²	DC24V+
17	HW3	Closing position	RV1.5mm ²	

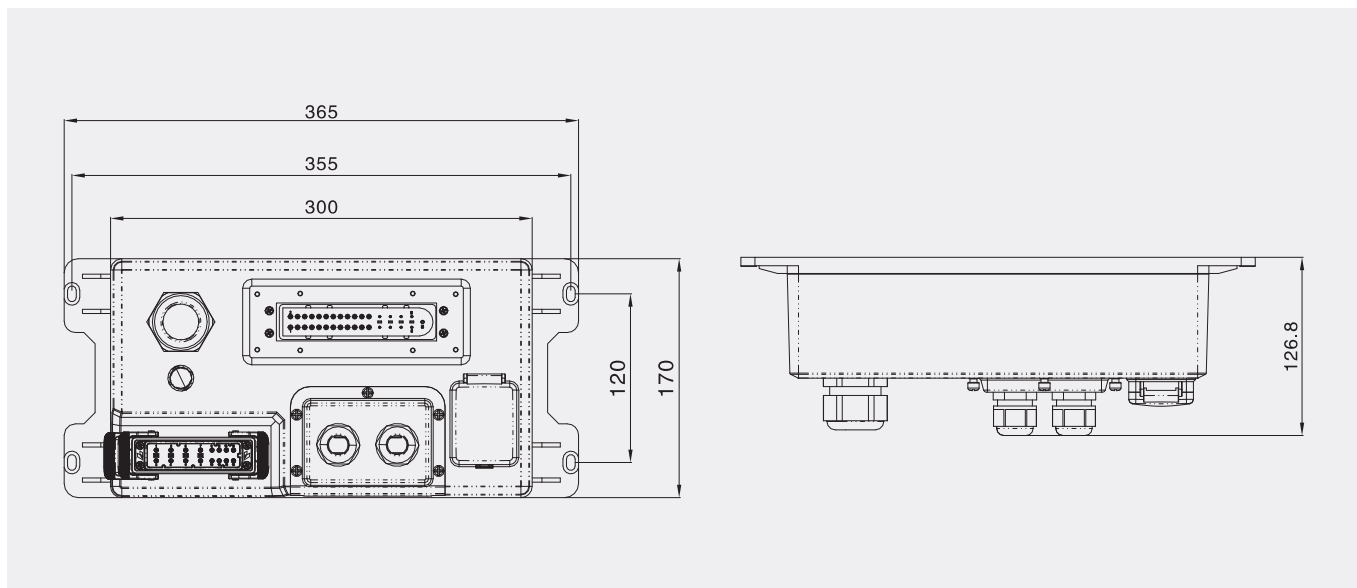
Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm ²	
19	GKW	Main switch position	RV1.5mm ²	
20	DKW	Grounding switch position	RV1.5mm ²	
21	WCN	Unstored energy position	RV1.5mm ²	
22	DQYBJ	Warning of control circuit	RV1.5mm ²	
23		Standby		
24		Standby		
25	Ia+	A-phase current +	RV2.5mm ²	
26	Ia-	A-phase current -	RV2.5mm ²	
27	Ib+	B-phase current +	RV2.5mm ²	
28	Ib-	B-phase current -	RV2.5mm ²	
29	Ic+	C-phase current +	RV2.5mm ²	
30	Ic-	C-phase current -	RV2.5mm ²	
31	I0+	Zero sequence current +	RV2.5mm ²	
32	I0-	Zero sequence current -	RV2.5mm ²	
33	GND	Grounding	RV2.5mm ²	

Phoenix terminal 20-pin definiton

Pin	Mark	Description	Cable	Note
1	PW+	PW+	24V+	RV1.5mm ²
		PW+		
2	PW-	PW-	24V-	RV1.5mm ²
		PW-		
3	KM+	KM+	48V+	RV1.5mm ²
		KM+		
4	KM-	KM-	48V-	RV1.5mm ²
		KM-		
5	KM+	KM+	48V+	RV1.5mm ²
		KM+		
6	KM-	KM-	48V-	RV1.5mm ²
		KM-		
7	Ua	Ua	A-phase voltage	RV1.5mm ²
		Ua		
8	Ub	Ub	B-phase voltage	RV1.5mm ²
		Ub		
9	Uc	Uc	C-phase voltage	RV1.5mm ²
		Uc		
10	Un	Un	Com	RV1.5mm ²
		Un		

Pin	Mark	Description	Cable	Note
11	U0	U0	Zero sequence voltage	RV1.5mm ²
		U0		
12	U0n	U0n	Zero sequence voltage	RV1.5mm ²
		U0n		
13	PPS+	PPS+	pulse per second	
		PPS+		
14	PPS-	PPS-	pulse per second	
		PPS-		
15	PA1+		A-phase ammeter	RV2.5mm ²
16	PA1-		A-phase ammeter	RV2.5mm ²
17	PA2+		B-phase ammeter	RV2.5mm ²
18	PA2-		B-phase ammeter	RV2.5mm ²
19	PA3+		C-phase ammeter	RV2.5mm ²
20	PA3-		C-phase ammeter	RV2.5mm ²

Module mounting hole size

Outline diagram




Technical highlight

Through continuous customer advice, and under the guidance of experts in the field of ring cabinets and distribution terminals, we have optimized the design and process of the module. The technical highlights of the second generation of spacer secondary modules are as follows:

- 1, CT circuit, switch circuit, the total power supply circuit using bare copper tin process to improve the current carrying capacity, and by spraying three anti-paint to improve its sealing and prolong the service life;
- 2, optimize the current carrying and breaking capacity of the relay to avoid the failure of the switching relay or anti-jump relay caused by the fault of the operating mechanism;
- 3, optimize the layout of the circuit board, the key parts of the circuit board slotting process to ensure that its insulation strength, impact voltage resistance to meet and higher than the national standards, in high altitude areas can be assured of use;
4. Increase the 20-core terminal compartment, change the 14P terminal to the spring terminal fixed with ear screws, and change the 6P current terminal to the welded plate spring terminal, which not only eliminates the risk of terminal falling off, but also significantly improves the on-site wiring efficiency;
- 5, small size, up and down, left and right installation methods, perfect match mainstream cabinet and compact cabinet.

Standard line length schedule

Name	Connector details	Recommended length of exposrd thread	Error proofing of color
PT switching module	Up-line 10-pin connector (standard)	0.85m	#1 black
	Wire (to voltmeter)	0.25m	
PT secondary module	Up-line 32-pin short-circuit socket (standard)	0.4m	#1 black
	Down-line 10-pin connector (optional)	2.5m (to voltage transformer)	N/A
JG operating module	16-pin double-end connector (standard)	0.5m	N/A
JG secondary module (decentralized)	Up-line 32-pin short-circuit connector (standard)	0.65m	#1-6 black/white/red/green/yellow/blue
	Down-line 32-pin connector (optional)	1.5m (voltage line)/2.5m (current line)	N/A
JG secondary module (centralized)	Up-line 32-pin short-circuit socket (standard)	0.25m	#1-6 black/white/red/green/yellow/blue
	Down-line 32-pin connector (optional)	1.5m (voltage line)/2.5m (current line)	N/A
Miniaturized JG secondary module (decentralized)	Up-line 32-pin short-circuit connector (standard)	0.65m	#1-6 black/white/red/green/yellow/blue
	Down-line 32-pin connector (optional)	1.5m (voltage line)/2.5m (current line)	N/A
Miniaturized JG secondary module (centralized)	Up-line 32-pin short-circuit socket (standard)	0.3m	#1-6 black/white/red/green/yellow/blue
	Down-line 32-pin connector (optional)	1.5m (voltage line)/2.5m (current line)	N/A

Main products:

- ◆AD11 series signal lamp, tower lamp
- ◆CJK22 series signal lamp, button
- ◆UK series terminal connector
- ◆CJ series relay
- ◆Construction machinery lamp, switch, socket
- ◆PCM series integrated module
- ◆Metal signal lamp, button
- ◆LA38 series button
- ◆LW38 series change-over switch
- ◆CJH(BH) series current transformer
- ◆ANH series button box and case

Welcome to call us for this sample manual or visit our website for more inquiry



地址：江苏省江阴市澄江东路99号
Add: No.99 Chengjiang R.(E), Jiangyin, Jiangsu, China
电话 (Tel) : 0510-86858743/0510-86852075
传真 (Fax) : 0510-86851360/0510-86853798
技术咨询: 0510-86851360/0510-86197012
Http://www.cjel.com E-mail: ad11@cjel.com