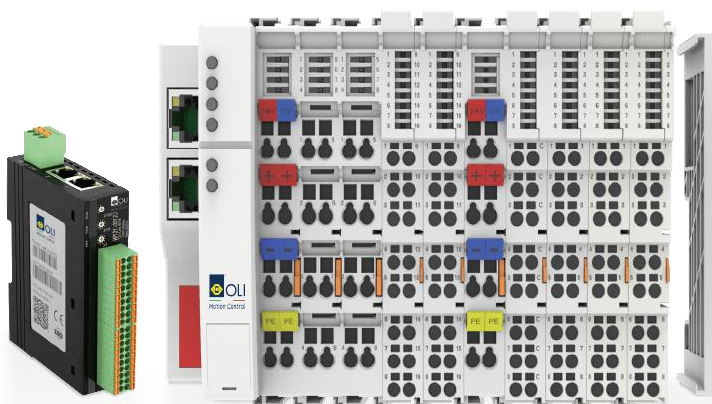




a **WOLONG** company



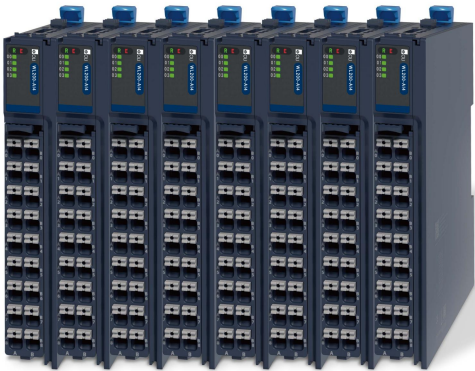
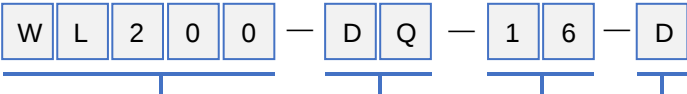
I/O MODULE PRODUCT SELECTION MANUAL



PLC local expansion dedicated I/O



WL200 series naming scheme



Code	Product Series
WL200	WL200 series slice IO

Code	IO Channel
4	4 channel
16	16 channel

Code	Module
DI	Digital input
DO	Digital output
DIO	Digital input/output
AI	Analog input
AQ	Analog output
TC	Thermocouple temperature measurement
RTD	Thermal resistance temperature measurement

Code	Special Mark
S	Source
D	Drain
R	Relay

PS:
In an I/O module without a specific function identifier, number ④ is ignored as null.

WL200 series product list

Model	Machine Code	Description
WL200-DI16	20030102	16 channel digital input module
WL200-DQ16D	20030208	16 channel digital output module(drain)
WL200-DQ16S	20030205	16 channel digital output module(source)
WL200-AI4	20030416	4 channel analog input module
WL200-AQ4	20030518	4 channel analog output module
WL200-TC4	20030422	4 channel thermocouple temperature measurement module
WL200-RTD4	20030420	4 channel thermal resistance temperature measurement module

Digital Input Module

Product Model		WL200-DI16	
Picture			
Supply Power	Backplane Power(Module power)	5VDC(4.75VDC~5.25VDC)	
	Terminal Power(Load power)	Non	
Dimension (WxHxD) mm		12*105*85	
Weight		74g	
Operating/Storage Temperature		-20℃~55℃/-40℃~70℃	
Relative Humidity		10%~90%RH	
Protection Level		IP20	
Altitude		Below 3000m	
Certification		CE	
Module Type		Digital input	
Channels		16	
Channel Type		Transistor, source + drain	
Input Voltage		24VDC(20.4VDC~28.8VDC)	
Module Dissipation		5VDC/35mA	
Input Current (Typical)		4mA	
Filtering Time		/	
Channel Breaking	ON	>15V	
	OFF	<5V	
Hardware Response Time	ON	100us	
	OFF	100us	
Isolation Mode		Each channel optoelectronic isolation	
Diagnostic LED		1x running, 1x failure, 16x channel indication	
Overload Protection		/	
Hot Swap		Support	
Channel Logic Level Configuration		Nonsupport	
Independence Channel Enabled Configuration		Nonsupport	
Diagnostic Reporting Function Configuration		Support	
Off Status		Output is not refreshed, input is refreshed in safeop	
I/O Refresh Mode		Free running refresh (keep synchronous refresh)	
IO Mapping		Supports three IO mapping modes: bit-by-bit access, byte-by-byte access, and word-by-word access	

Digital Output Module



Product Model		WL200-DQ16D	WL200-DQ16S
Picture			
Supply Power	Backplane Power(Module power)	5VDC(4.75VDC~5.25VDC)	
	Terminal Power(Load power)	24VDC(20.4VDC~28.8VDC)	
Dimension (WxHxD) mm		12*105*85	
Weight		74g	
Operating/Storage Temperature		-20℃~55℃/-40℃~70℃	
Relative Humidity		10%~90%RH	
Protection Level		IP20	
Altitude		Below 3000m	
Certification		CE	
Module Type		Digital input	
Channels		16	
Channel Type		Transistor, drain	Transistor, source
Input Voltage		24VDC(20.4VDC~28.8VDC)	
Module Dissipation		5VDC/70mA	
Current Consumption		/	
Filtering Time		/	
Voltage Output Range		24VDC±10% (21.6VDC~26.4VDC)	
Load Current		0.5A/point, 4A/module	
Hardware Response Time	ON	100us	
	OFF	100us	
Isolation Mode		Each channel optoelectronic isolation, Isolation withstand voltage ≥3KVrms	
Diagnostic LED		1x running, 1x failure, 16x channel indication	
Overload Protection		Support	
24V Power anti-reverse Connection		Support	
Hot Swap		Support	
Channel Logic Level Configuration		Nonsupport	
Independence Channel Enabled Configuration		Nonsupport	
Diagnostic Reporting Function Configuration		Support	
Off Status		Output is not refreshed, input is refreshed in safeop	
I/O Refresh Mode		Free running refresh (keep synchronous refresh)	
IO Mapping		Supports three IO mapping modes: bit-by-bit access, byte-by-byte access, and word-by-word access	

Analog Input Module

Product model		WL200-AI4
Picture		
Supply Power	Backplane Power(Module power)	5VDC(4.75VDC~5.25VDC)
	Terminal Power(Load power)	24VDC(20.4VDC~28.8VDC)
Dimension (WxHxD) mm		12*105*85
Weight		74g
Operating/Storage Temperature		-20℃~55℃/-40℃~70℃
Relative Humidity		10%~90%RH
Protection Level		IP20
Altitude		Below 3000m
Certification		CE
Module Type		Analog input
Channels		4
Resolution		16 bits
Voltage Input	Range	±10V, 5V, 0~10V, 0~5V
	Impedance	110KΩ
	Precision(25℃)	<0.1%F.S
	Limit	11V
Current Input	Rnage	4~20mA, 0~20mA, 20mA
	Impedance	250Ω
	Precision(25℃)	<0.1%F.S
	Limit	24mA
Isolation Mode		The channel is not isolated, the system side is photoelectric isolated from the field side, and the isolation voltage is ≥3KVms
Diagnostic Mode		Field side supply power detection, over range detection
Diagnostic LED		Operation, failure, communication instructions; Signal input indication; Channel range indication
24V Power anti-reverse Connection		Support
Hot Swap		Support
Software Input Filtering Time		Support, Software can configuration 1~255ms(default 10ms)
Diagnostic Reporting Function Configuration		Support
Overrun Detection		Support
Peak Holding		Support
I/O Refresh Mode		Free running refresh (keep synchronous refresh)
IO Mapping		Supports three IO mapping modes: bit-by-bit access, byte-by-byte access, and word-by-word access

Analog Output Module



Product Model		WL200-AQ4
Picture		
Supply Power	Backplane Power(Module power)	5VDC(4.75VDC~5.25VDC)
	Terminal Power(Load power)	24VDC(20.4VDC~28.8VDC)
Dimension (WxHxD) mm		12*105*85
Weight		74g
Operating/Storage Temperature		-20℃~55℃/-40℃~70℃
Relative Humidity		10%~90%RH
Protection Level		IP20
Altitude		Below 3000m
Certification		CE
Module Type		Analog ooutput
Channels		4
Resolution		16 bits
Voltage Input	Range	±10V, 5V, 0~10V, 0~5V
	Impedance	1KΩ
	Precision(25℃)	<0.1%F.S
	Limit	±10V
Current Input	Rnage	4~20mA, 0~20mA
	Impedance	0Ω-1kΩ
	Precision(25℃)	<0.1%F.S
	Limit	22mA
Isolation Mode		The channel is not isolated, the system side is photoelectric isolated from the field side, and the isolation voltage is ≥3KVms
Output Protection		Field side supply power detection
Diagnostic LED		Operation, failure, communication instructions; Signal input indication;
24V Power anti-reverse Connection		Support
Hot Swap		Support
Software Input Filtering Time		/
Diagnostic Reporting Function Configuration		Support
Overrun Detection		Support
Peak Holding		Support
I/O Refresh Mode		Free running refresh (keep synchronous refresh)
IO Mapping		Supports three IO mapping modes: bit-by-bit access, byte-by-byte access, and word-by-word access

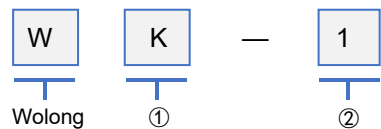


Temperature Measurement Module

Product model		WL200-RTD4	WL200-TC4
Picture			
Supply Power	Backplane Power(Module power)	5VDC(4.75VDC~5.25VDC)	
	Terminal Power(Load power)	24VDC(20.4VDC~28.8VDC)	
Dimension (WxHxD) mm		12*105*85	
Weight		73g	72g
Operating/Storage Temperature		-20℃~55℃/-40℃~70℃	
Relative Humidity		10%~90%RH	
Protection Level		IP20	
Altitude		Below 3000m	
Certification		CE	
Module Type		Temperature Measurement Module	
Channels		4	
Resolution		24	
Display Sensitivity		0.1℃, 0.1℉	
Input Terminal		thermal resistance	thermocouple
Sensor Type		PT100, PT1000	K, J, E, B, N, R, S, T
Compensation Mode		/	cold junction compensation
Accuracy (room temperature 25℃)		<0.1%F.S	
Accuracy (room temperature -20℃~55℃)		<0.3%F.S	
Isolation Mode		The I/O terminals are isolated from the power supply, and channels are isolated from each other	
Diagnostic Mode		Overrun detection, broken line detection	
Diagnostic LED		Operation, failure, communication instructions; Signal input indication;	
24V Power anti-reverse Connection		Support	
Hot Swap		Support	
Software Input Filtering Time		/	1~100s can configuration
Diagnostic Reporting Function Configuration		Support	
Overrun Detection		Support	
Peak Holding		Support	
I/O Refresh Mode		Asynchronously refresh according to the sampling time, and do not require synchronous refresh according to the bus cycle	
IO Mapping		Supports three IO mapping modes: bit-by-bit access, byte-by-byte access, and word-by-word access	

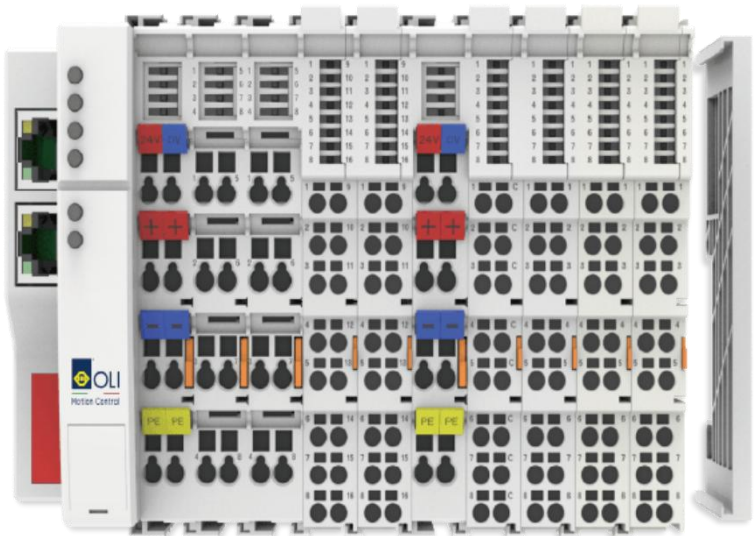
Naming Scheme of Slice I/O

Coupler naming scheme

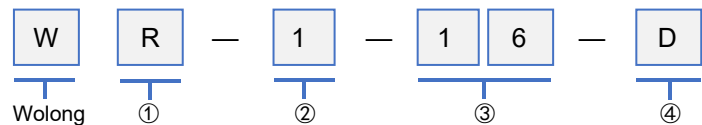


①	
Code	Product Type
K	Coupler

②	
Code	Protocol Type
1	PROFINET
2	EtherCAT



Module naming scheme



①	
Code	Product Type
R	Module

③	
Code	Channels
16	16 channels
08	8 channels
04	4 channels
01	1 channel
00	Non

②	
Code	Module type
1	DI
2	DO
3	AI
4	AO
5	Encoder counting
6	Serial gateway
7	Temperature collection
8	Power expansion module
9	Extended module

④	
Code	Feature
D	NPN
S	PNP
I	Current type
U	Voltage type
Blank	NPN&PNP
R	Thermal resistor&Thermocouple
IE	Incremental
AE	Absolute value

Product Type



• Slice I/O

Coupler

1	WK-2	EtherCAT (with terminal cover plate)
2	WK-1	PROFINET (with terminal cover plate)

Digital

3	WR108D	8 channels digital input, NPN, filter range 0-20ms
4	WR108S	8 channels digital input, PNP, filter range 0-20ms
5	WR116D	16 channels digital input, NPN, filter range 0-20ms
6	WR116S	16 channels digital input, PNP, filter range 0-20ms
7	WR216D	16 channels digital output, NPN, 0.5A
8	WR216S	16 channels digital output, PNP, 0.5A
9	WR208D	8 channels digital output, NPN, 0.5A
10	WR208S	8 channels digital output, PNP, 0.5A

Analog

11	WR308U	8 channels analog input, ± 10 V, 16 bit, single-end
12	WR308I	8 channels analog input, 0...20 mA, 16 bit, single-end
13	WR408U	8 channels analog output, ± 10 V, 12 bit, single-end
14	WR408I	8 channels analog output, 0...20 mA, 12 bit, single-end
15	WR304U	4 channels analog input, ± 10 V, 16 bit, single-end
16	WR304I	4 channels analog input, 0...20 mA, 16 bit, single-end
17	WR404U	4 channels analog output, ± 10 V, 12 bit, single-end
18	WR404I	4 channels analog output, 0...20 mA, 12 bit, single-end

Function Module

19	WR501	1 channel incremental ABZ encoder counting module, 24 V single-end, NPN&PNP
20	WR501IE	1 channel incremental ABZ encoder counting module, 5 V differential
21	WR501AE	1 channel absolute SSI encoder counting module, 5 V differential
22	WR601	1 channel serial communication, RS232, RS485, RS422 three-in-one interface
23	WR304R	4 channel temperature acquisition module, thermal resistance & thermocouple
24	WR800	Power expansion module, providing 5V power supplies in the system and 18-30V power supplies in the field

 Integrated I/O



Small Size

Only 102*72*25mm



Fast Speed

High speed ARM
+ dedicated ASIC



High integration

Digital is up to 32
channels
and analog is up to 8
channels

Easy maintenance: easy to troubleshoot,
the terminal is pluggable

Easy to expand: comes with dual network
ports, modules can be cascaded

Models complete: digital, analog, tempera-
ture, positioning, counting

Easy to install: 35mm standard DIN rail

EtherCAT[®]

PROFI[®]
NET

EtherNet/IP[®]

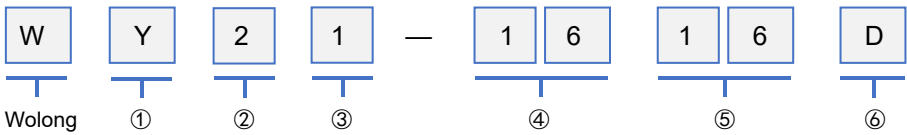
CC-Link

CC-Link IE[®] Field
Basic

Modbus TCP

DeviceNet[™]

Naming Scheme of Integrated I/O



①	
Code	Product Type
Y	Integraetd I/O

②	
Code	Protocol
1	PROFINET
2	EtherCAT

④	
Code	Input
32	32 channels
16	16 channels
08	8 channels
04	4 channels
02	2 channels
00	Non

③	
Code	Module
1	Digital
2	Analog
3	Pulse output module
4	Encoder counting module

⑤	
Code	Output
32	32 channels
16	16 channels
08	8 channels
04	4 channels
02	2 channels
00	Non

⑥	
Code	Feature
D	NPN
S	PNP
I	Current type
U	Voltage type
A	Differential
Blank	NPN&PNP
J	Relay

Product Type



Integrated I/O

Single-wire digital I/O

1	WY21-3200D	EtherCAT Integrated I/O, 32 input, NPN
2	WY21-1616D	EtherCAT Integrated I/O, 16 input 16 output, NPN, 0.5A
3	WY21-0032D	EtherCAT Integrated I/O, 32 output, NPN, 0.5A
4	WY21-1600D	EtherCAT Integrated I/O, 16 input, NPN
5	WY21-0016D	EtherCAT Integrated I/O, 16 output, NPN, 0.5A
6	WY21-3200S	EtherCAT Integrated I/O, 32 input, PNP
7	WY21-1616S	EtherCAT Integrated I/O, 16 input 16 output, PNP, 0.5A
8	WY21-0032S	EtherCAT Integrated I/O, 32 output, PNP, 0.5A
9	WY21-1600S	EtherCAT Integrated I/O, 16 input, PNP
10	WY21-0016S	EtherCAT Integrated I/O, 16 output, PNP, 0.5A
11	WY21-0012J	EtherCAT Integrated I/O, 12 output, relay, 2A
12	WY21-1612J	EtherCAT Integrated I/O, 16 input 12 output, relay, 2A

Analog Input

13	WY22-0400U	EtherCAT Integrated I/O, 4 channels analog voltage input, -10~+10V / 0~+10V, precision $\pm 0.1\%$
14	WY22-0800U	EtherCAT Integrated I/O, 8 channels analog voltage input, -10~+10V / 0~+10V, precision $\pm 0.1\%$
15	WY22-0400I	EtherCAT Integrated I/O, 4 channels analog current input, 0~20mA / 4~20mA, precision $\pm 0.1\%$
16	WY22-0800I	EtherCAT Integrated I/O, 8 channels analog current input, 0~20mA / 4~20mA, precision $\pm 0.1\%$

Analog Output

17	WY22-0004U	EtherCAT Integrated I/O, 4 channels analog voltage output, -10~+10V / 0~+10V, precision $\pm 0.1\%$
18	WY22-0008U	EtherCAT Integrated I/O, 8 channels analog voltage output, -10~+10V / 0~+10V, precision $\pm 0.1\%$
19	WY22-0004I	EtherCAT Integrated I/O, 4 channels analog current output, 0~20mA / 4~20mA, precision $\pm 0.1\%$
20	WY22-0008I	EtherCAT Integrated I/O, 8 channels analog current output, 0~20mA / 4~20mA, precision $\pm 0.1\%$

Function Module

21	WY24-0200A	2 channels incremental encoder counting module, 5V- differential , 500kHz
22	WY23-0004A	Cia402-4-axis pulse output module, 5V-differential, 400kHz



Pulse counting module



2 Channels Incremental Encoder Counting Module

5V-differential | 500kHz

WY24-0200A

Intergrated

- ◆ Support EtherCAT,PROFINET,EtherNet/IP,CC-Link IE Field Basic,etc mainstream protocols
- ◆ Support the counting needs of encoders, optical/magnetic grid scales, and various sensors
- ◆ Support AB orthogonal, directional pulse and double pulse protocols
- ◆ Supports the function of comparing output and input latching

Rich motion control products, including multi-protocol bus step driver module, pulse positioning module, PWM output module, encoder counting module and many other highly competitive products.

EtherCAT®

EtherNet/IP®

PROFI[®]
NET

CC-Link IE[®] Field
Basic

Appendix

Power Module Parameter

Parameter	Technical Specification
Rated Supply Voltage	24V DC (18V~36V)
Output Current	2A
Protection	Reverse protection, short circuit protection
External Connection Mode	Shrapnel terminals
Weight	About 110g
Installation	DIN 35mm guide rail
Altitude	Below 2000m (Refer to the operating height of sea level)
IP Level	IP20
Usage Occasion	Avoid dust, oil mist and corrosive gases
Operating Ambient Temperature	-10 ~ +60℃
Operating Ambient Humidity	95 %RH
Storage Ambient Temperature	-20℃ ~+75℃
Storage Ambient Humidity	<95%

Network interface parameter



Appendix

Bus Protocol	EtherCAT	EtherNet /IP	PROFI NET	Modbus TCP	CC-Link IE Field Basic	CC-Link					DeviceNet		
Slave Station	Depends on the number of slave stations supported by the master station					Remote I/O station: Max 64 stations Remote device station: Max 42 stations					Max 64 stations		
Data Transmission Medium	Ethernet/EtherCAT CAT5 cable					CC-Link special cable (three-core shielded stranded cable)					DeviceNet Special cable		
Transmission Rate	100Mb/s					10Mbps / 5Mbps / 2.5Mbps / 625kbps / 156kbps					500kbps / 250kbps / 156kbps		
Transmission Distance	≤ 100m (Station distance)					10 Mbps	5 Mbps	2.5 Mbps	625 kbps	156 kbps	500 kbps	250 kbps	156 kbps
						≤ 100m	≤ 160m	≤ 400m	≤ 900m	≤ 1200m	≤ 100m	≤ 250m	≤ 500m
Bus Interface	2×RJ45					Shrapnel terminals, 7P					Shrapnel terminals, 7P		
Configuration Mode	Configure the configuration on the master software												
Rated Supply Voltage	24V DC (18V~36V)												
Power Dissipation	Max 3.0W, 125mA												
Power Contact	IP20: MAX 24V DC/10A IP67: MAX 24V DC/16A												
Power Supply Protection	Short circuit protection; Reverse protection												
Dimension	102×72×25mm												
Weight	about 140g												
Installation	DIN 35mm guide rail												
Altitude	Below 2000m (Refer to the operating height of sea level)												
IP Level	IP20												
Usage Occasion	Avoid dust, oil mist and corrosive gases												
Operating Ambient Temperature	IP20: -10 ~ +60°C IP67: -25~70° C												
Operating Ambient Humidity	95 %RH												
Storage Ambient Temperature	-20°C ~+75°C												
Storage Ambient Humidity	<95%												

Appendix



Digital Input Parameter

Parameter	Technical Specification	
Channels	32 channels /16 channels /8 channels	
Signal Type	NPN (Drain type) /PNP (Source type)	
Rated Supply Voltage	24V DC (18V~36V)	
Input Filtering	Default 3ms (1ms, 2ms, 3ms can be set)	
ON Voltage /ON Current	NPN: 9V/2.7mA PNP: 15V/2.8mA	
OFF Voltage /OFF Current	NPN: 11V/2.3mA PNP: 5V/0.9mA	
Input Response Time	ON → OFF	≤ 73us
	OFF → ON	≤ 8us
Input Impedance	5.57kΩ	
Isolated Withstand Voltage	500V AC	
Isolation Mode	Optocoupler isolation	
I/O External Connection Mode	IP20: Elastic terminal, MIL connector, screw terminal IP67: M12-A, 5pin	
Common Terminal	8 points /16 points, max current 8A per common terminal (depending on the specific model)	
Channel Protection	Optocoupler	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Temperature	IP20: -10 ~ +60℃ IP67: -25~70° C	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	

Transistor output parameter

Appendix

Parameter	Technical Specification	
Channels	32 channels /16 channels /8 channels	
Signal Type	NPN（Drain type）/PNP（Source type）	
Rated Supply Voltage	24V DC (18V~36V)	
Single Channel Load Current	A type、B type：Max.0.5A BW type：Max.0.25A	
Leakage Current at OFF	A type :4uA BW type： 6uA B type： 6uA	
Residual Voltage	A type 0.4V BW type： 0.2V B type： 0.2V	
Input Response Time	ON → OFF	≤ 191us
	OFF → ON	≤ 40us
Isolation Mode	Optocoupler isolation	
Isolated Withstand Voltage	500V AC	
Load Type	Resistive load, inductive load, lamp load	
I/O External Connection Mode	IP20: Elastic terminal, MIL connector, screw terminal IP67: M12-A, 5pin	
Common Terminal	8 points/16 points a common terminal, each common terminal max current 2A/4A/8A (depending on the specific model)	
Channel Protection	Overcurrent, short circuit protection	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	

Appendix

Analog Input Parameter

Parameter	Technical Specification	
Channels	8 channels /4 channels	
Rated Supply Voltage	24V DC (18V~36V)	
Input	Single end	
Range	Voltage type	-10V ~ +10V, 0V~10V
	Current type	0~20mA, 4~20mA
Max Value	Voltage type	-10V ~ +10V, 0V~10V
	Current type	0~20mA, 4~20mA
Resolution	16bit	
Sampling Frequency	≤ 1 ksps	
Precision	±0.1%	
Input Filtering	Default 10 times (range 1-200 times)	
Conversion Time	800us/8 channels, 400us/4 channels	
Input Impedance	Voltage type	400kΩ
	Current type	100Ω
Isolated Withstand Voltage	500V AC	
Channel Protection	Overvoltage protection	
I/O External Connection Mode	Shrapnel terminals	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Temperature	-10 ~ +60℃	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	

Analog Output Parameter

Appendix

Parameter	Technical Specification	
Channels	8 channels /4 channels	
Rated Supply Voltage	24V DC (18V~36V)	
Range	Voltage type	-10V ~ +10V, 0V~10V
	Current type	0~20mA, 4~20mA
Resolution	16bit	
Precision	±0.1%	
Load Impedance	≥ 2 kΩ	
Isolated Withstand Voltage	500V AC	
Channel Protection	Short circuit protection	
I/O External Connection Mode	Shrapnel terminals	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Temperature	-10 ~ +60℃	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	

Appendix



Temperature acquisition module parameter

Parameter	Technical Specification		
Channels	8 channels /4 channels		
Rated Supply Voltage	24V DC (18V~36V)		
Sensor	TC	RTD	TD
Wiring	2-wire	2-wire/ 3-wire	2-wire/ 3-wire
Range	K: -200~1370℃ J: -200~1200℃ E: -200~1000℃ S: -50~1690℃ B: 50~1800℃	Pt100: -200~850℃ Pt200: -200~600℃ Pt500: -200~600℃ Pt1000: -200~600℃	15Ω~3kΩ
Precision	±0.3%	±1℃	±0.1%
Sensitivity	0.1℃		±0.1 Ω
Conversion Time (When the filter series of all channels is 1)	40 ms	125 ms	
Filtering	Single-channel filter, configurable (series 1~10)		
Wire break detection	Support		
Wire break detection time	2ms		
Allowed max input voltage	30V DC		
Electrical Isolation	500VAC, channels are not isolated		
I/O External Connection Mode	Shrapnel terminals		
Dimension	106×73×25.7mm		
Weight	about 110g		
Installation	DIN 35mm guide rail		
Altitude	Below 2000m (Refer to the operating height of sea level)		
IP Level	IP20		
Usage Occasion	Avoid dust, oil mist and corrosive gases		
Operating Ambient Temperature	-10 ~ +60℃		
Operating Ambient Humidity	95 %RH		
Storage Ambient Temperature	-20℃ ~+75℃		
Storage Ambient Humidity	<95%		

Pulse Input Module Parameter

Appendix

Parameter	Technical Specification	
Channels	2 channels	
Rated Supply Voltage	24V DC (18V~36V)	
Encoder Type	Incremental encoder, orthogonal	
Encoder Power Supply	5V DC	
Type of Acquisition Signal	Differential signal	
Signal Type	RS422	
Process Data	Up	20Byte
	Down	12Byte
Counting Rate	<=500kHz	
Phase Z Zero Clearing	Support	
Hardware Latch Function	Latch signals can be configured	
Comparison Output Function	nonsupport	
Count Ratio Setting	4x / 2x / 1x (default 4x)	
Resolution Setting	0-65535(default 0)	
Ring Count	(0- resolution * Count multiplier -1)	
Linear Counting	0-4294967295	
Count Initial Value Setting	Support	
Count Range Selection	0-15(default 7)	
Count Reverse	Support	
I/O External Connection Mode	Shrapnel terminals	
Input Signal	Signal Type	NPN (Drain type) &PNP (source type) compatible
	Channels	1 pulse channel /2 points
	ON Voltage /ON Current	NPN: 9V/2.7mA PNP: 15V/2.8mA
	OFF Voltage /OFF Current	NPN: 11V/2.3mA PNP: 5V/0.9mA

Pulse Input Module Parameter

Appendix

Parameter	Technical Specification	
Output Signal	Signal Type	PNP (source type)
	Channels	1 pulse channel /2 points
	Single channel load current	Max.0.5A
	Load type	Resistive load, inductive load, lamp load
I/O External Connection Mode	Shrapnel terminals	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Temperature	-10 ~ +60℃	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	

Appendix

Pulse Input Module Parameter

Parameter	Technical Specification	
Number of Axes	4-axis	
Rated Supply Voltage	24V DC (18V~36V)	
Driver Signal	Differential signal	
Output Specification	/	
Signal Voltage	/	
Operation Mode	Pulse + direction	
Output Frequency	≤ 400kHz	
Synchronization Period	≥ 1ms	
Input signal	Signal Type	NPN(Drain type)
	Channels	1 pulse channel /2 points
	ON Voltage /ON Current	NPN:DC13.94V below/DC1.910mA above
	OFF Voltage /OFF Current	NPN:DC13.90V below /1.905mA above
	Input response frequency	4.233700254022Hz
	Input response time	ON → OFF: 212ms
		OFF → ON: 24.2ms
	Common terminal mode	/
	Input impedance	7.36 kΩ
Channel Protection	/	
I/O External Connection Mode	Shrapnel terminals	
Dimension	102×72×25mm	
Weight	about 140g	
Installation	DIN 35mm guide rail	
Altitude	Below 2000m (Refer to the operating height of sea level)	
IP Level	IP20	
Usage Occasion	Avoid dust, oil mist and corrosive gases	
Operating Ambient Temperature	-10 ~ +60℃	
Operating Ambient Humidity	95 %RH	
Storage Ambient Temperature	-20℃ ~+75℃	
Storage Ambient Humidity	<95%	
EMI Peculiarity	Meets EN IEC61000-6-4-2019 standard	
EMS Peculiarity	Meets EN IEC61000-6-2-2019 standard	
Vibration Resistance	Meets EN 60068-2-6 standard	
Impact Resistance	Meets EN 60068-2-27/29 standard	



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