



NEW!

Basic parameters	Shell material	Aluminum alloy	
	Shell color	Metallic silver	
	Protect degree	IP67 , Epoxy encapsulation	
	External dimensions	205mm × 60mm × 34.4mm	
	Weight	515g	
	Operating temperature	-25°C~70°C	
	Storage/transport temperature	-40°C~85°C	
	Operating humidity	5%~95%	
	Storage/transport humidity	5%~95%	
	Operating atmospheric pressure	80KPa~106KPa	
	Storage/transport atmospheric pressure	80KPa~106KPa	
	I/O port fastening torque	M12:0.5Nm	
	Application environment	Compliant with EN-61131	
	Vibration testing	Compliant with IEC60068-2	
	Shock testing	Compliant with IEC60068-27	
	Free fall testing	Compliant with IEC60068-32	
	Electromagnetic compatibility (EMC)	Compliant with IEC61000-4-2,-3,-4	
	Certification	CE,RoHS	
	Installation hole specifications	Φ4.5mm × 1 ; Φ5.5mm × 1	
Pinout definition for data port	M12 D-code Female end	Connection method	2 × M12 D-code; 4-pin socket
		Physical layer	Ethernet
		Transmission speed	10/100 Mbps, Full duplex
		Characteristics	Compliant with protocol specifications
		Alarm function	Diagnosis alarm, process alarm
		Minimum cycle time	1ms
		Communication port fastening torque	M12:0.5Nm
Pinout definition for auxiliary power supply port	Auxiliary power supply port	Power supply connection method	M12, 5-pin, L-code, male/female
		System power supply voltage us	18~30 VDC(type.24VDC)
		Auxiliary power supply voltage ua	18~30 VDC(type.24VDC)
	M12 L-code Female end & Male end	Total current Is	12A
		Total current Ia	12A
	Pinout definition	Static operating current Ic	≤150mA
		Reverse power protection	Have
		Power port fastening torque	M12:0.5Nm
		<p>XP0      XP1</p> <p>Male      Female</p> <ol style="list-style-type: none"> <li>1. +24V_Us</li> <li>2. GND_Ua</li> <li>3. GND_Us</li> <li>4. +24V_Ua</li> <li>5. FE</li> </ol>	

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# Module main station

## CIO 200 Series

IO-Link Master station parameters	The number of ports on the master station	Maximum configurable 8 ports				
	Master station connection method	M12, 5-pin, A-code, female				
	IO-link Version	V1.1.2				
	Communication rate	COM1:4.8KBps;COM2:38.4KBps;COM3:230.4KBps				
	Port voltage L+	type.24VDC (via US)				
	Port current L+	2A(via US)				
	Class A	8 ports, X1~X8				
	Master-slave communication distance	≤20m				
	Master-master communication distance	≤100m				
Digital input Output parameters	Number of inputs	8-channel, adaptive				
	Input port location	X1~X8				
	Input polarity	PNP				
	Signal "0" voltage	-0.3~5VDC				
	Signal "1" voltage	12~30VDC				
	Input current	type.5mA(via US)				
	Number of outputs	8-channel, adaptive				
	Output port location	X1~X8				
	Input polarity	PNP				
	Output current	Single channel 2A (via UA)				
	Port protection	Power supply short-circuit protection, overload protection for power supply port				
	Module indicator lights	PWR	Module power normal			
Red: Module power reverse connection						
I/O		Green: Channel signal normal				
		Red: Port power short-circuit				
LINK		Green: Connection normal				
		Yellow flashing: Connection normal, data communication normal				
RUN		SF	Green: OP status		MS	Green: Module status is normal
			Green slow flashing: SAFEOP status			Green flash: module is not configured
			Green fast flashing: Pre-OP status			Red: module failure
		BF	Off: Init status		NS	Red: internal error
	Red flashing: Communication error		Flashing red: Device name/IP address/module group status error			
	Off: module status is normal		Green: The network status is normal			
ERR	Green: Port operation (running) status		NS	Green flash: communication not established		
	Flashing green quickly: port connection process or wrong device			Flashing red: communication interrupted		
IO-LINK	Flashing green slowly: The port is in pre-operation state					
	Green off: port is closed					
	Green: Port operation (running) status					
	Flashing green quickly: port connection process or wrong device					
Protocol	EtherCat Protocol	ProfiNet Protocol	EtherNet/IP Protocol			
Model	<b>CIO200-ECIO-8A</b>	<b>CIO200-PNIO-8A</b>	<b>CIO200-EIIO-8A</b>			

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## I/O Port pin definition


	Pin definition	Address distribution																		
Port	<p><b>M12(X1~X8)</b></p>  <p><b>Class A</b></p> <ol style="list-style-type: none"> <li>1. V+</li> <li>2. In/Output</li> <li>3. 0 V</li> <li>4. C/Q</li> <li>5. N/C</li> </ol>	<table border="1"> <tr><td>Byte</td><td>0</td></tr> <tr><td>Bit0</td><td>X1P2</td></tr> <tr><td>Bit1</td><td>X2P2</td></tr> <tr><td>Bit2</td><td>X3P2</td></tr> <tr><td>Bit3</td><td>X4P2</td></tr> <tr><td>Bit4</td><td>X5P2</td></tr> <tr><td>Bit5</td><td>X6P2</td></tr> <tr><td>Bit6</td><td>X7P2</td></tr> <tr><td>Bit7</td><td>X8P2</td></tr> </table>	Byte	0	Bit0	X1P2	Bit1	X2P2	Bit2	X3P2	Bit3	X4P2	Bit4	X5P2	Bit5	X6P2	Bit6	X7P2	Bit7	X8P2
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M12 A-code female end																				

CIO 200 Series

IO-Link Master station parameters	The number of ports on the master station	Maximum configurable 8 ports					
	Master station connection method	M12, 5-pin, A-code, female					
	IO-link Version	V1.1.2					
	Communication rate	COM1:4.8KBps;COM2:38.4KBps;COM3:230.4KBps					
	Port voltage L+	type.24VDC (via US)					
	Port current L+	2A(via US)					
	Class B auxiliary voltage	type.24VDC(via UA)					
	Class B auxiliary current	2A(via UA)					
	Class A	4 ports, X1~X4					
	Class B	4 ports, X5~X8					
	Master-slave communication distance	≤20m					
	Master-master communication distance	≤100m					
	Digital Input Output parameters	Number of inputs	4-channel, adaptive				
Input port location		X1~X4					
Input polarity		PNP					
Signal "0" voltage		-0.3~5VDC					
Signal "1" voltage		12~30VDC					
Input current		type.5mA(via US)					
Number of outputs		4-channel, adaptive					
Output port location		X1~X4					
Input polarity		PNP					
Output current		Single channel 2A (via UA)					
Port protection		Power supply short-circuit protection, overload protection for power supply port					
Module Indicator lights	PWR	Module power normal					
		Red: Module power reverse connection					
	I/O	Green: Channel signal normal					
		Red: Port power short-circuit					
	LINK	Green: Connection normal					
		Yellow flashing: Connection normal, data communication normal					
		Off: No connection established					
	RUN	SF	Green: OP status	Red: module failure	MS	Green: Module status is normal	
			Green slow flashing: SAFEOP status			Red: internal error	Green flash: module is not configured
			Green fast flashing: Pre-OP status				Red: module failure
		BF	Off: Init status	Flashing red: Device name/IP address/module group status error	NS	Green: The network status is normal	
			Red flashing: Communication error			Green flash: communication not established	
			Off: module status is normal			Flashing red: communication interrupted	
ERR	Green: Port operation (running) status						
	Flashing green quickly: port connection process or wrong device						
	Flashing green slowly: The port is in pre-operation state						
	Green off: port is closed						
IO-LINK							
Protocol	EtherCat Protocol	ProfiNet Protocol	EtherNet/IP Protocol				
Model	CIO200-ECIO-4A4B	CIO200-PNIO-4A4B	CIO200-EIIO-4A4B				

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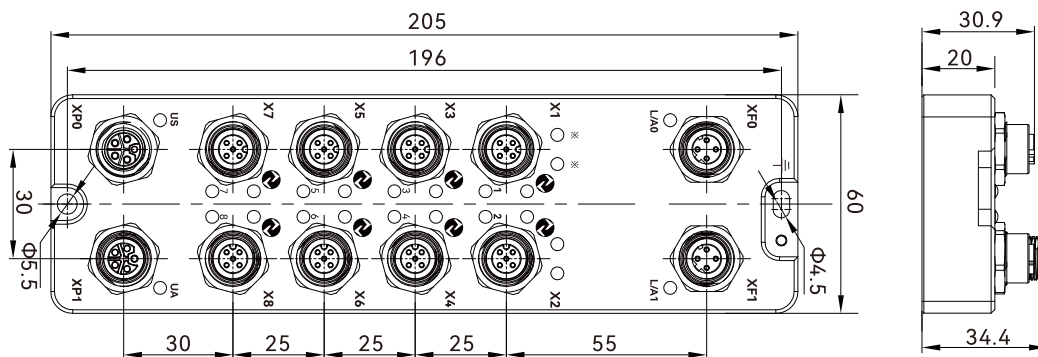
I/O Port pin definition

	Pin definition	Address distribution										
Port	M12(X1~X8)											
												
M12	<b>Class A</b> 1. V+ 2. In/Output 3. 0V 4. C/Q 5. N/C											
A-code	<b>Class B</b> 1. V+ 2. P24V 3. 0V 4. C/Q 5. N24V											
female end		<table border="1"> <thead> <tr> <th>Byte</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>Bit0</td> <td>X1P2</td> </tr> <tr> <td>Bit1</td> <td>X2P2</td> </tr> <tr> <td>Bit2</td> <td>X3P2</td> </tr> <tr> <td>Bit3</td> <td>X4P2</td> </tr> </tbody> </table>	Byte	0	Bit0	X1P2	Bit1	X2P2	Bit2	X3P2	Bit3	X4P2
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# Module main station

## Dimensions

Unit: mm



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### IO Bus

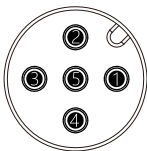
- Module main station
- Module Slave

### Controller & Communicator

- Controller
- Communicator



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Basic parameters	Shell material	PA6 + GF
	Shell color	Black
	Protect degree	IP67 , Epoxy full potting
	External dimensions	155mm × 53mm × 28.7mm
	Weight	217g
	Operating temperature	-25°C~70°C
	Storage/transport temperature	-40°C~85°C
	Operating humidity	5%~95%
	Storage/transport humidity	5%~95%
	Operating atmospheric pressure	80KPa~106KPa
	Storage/transport atmospheric pressure	80KPa~106KPa
	I/O port fastening torque	M12:0.5Nm
	Application environment	Compliant with EN-61131
	Vibration testing	Compliant with IEC60068-2
	Shock testing	Compliant with IEC60068-27
	Free fall testing	Compliant with IEC60068-32
	Electromagnetic compatibility (EMC)	Compliant with IEC61000-4-2,-3,-4
Certification	CE,RoHS	
Installation hole specifications	Φ4.3mm × 4	
Pinout definition for data port	IO-Link	IO-Link M12 MALE
	Pinout definition for port	 <ul style="list-style-type: none"> <li>1. V+</li> <li>2. P24V</li> <li>3. 0V</li> <li>4. C/Q</li> <li>5. N/C</li> </ul>

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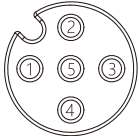
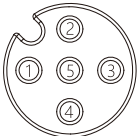
- IO Bus**
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# Module slave

## CIO 100 Series

IO-Link Master station Parameters	IO-Link Number of ports	1 x device	
	IO-Link Handle data length	2 input bytes	2 Output bytes
	Minimum cycle time	3 ms	
Input/Output parameters	Input and output quantity	16 inputs	16 outputs
	Rated working voltage	18~30V DC	
	Maximum load current (sensor)	200 mA	-
	Maximum load current (actuator)	-	500 mA
	Total current UI	< 1.6A	-
	Total current UO	-	< 2.5A
Module indicator lights	IO-LINK RUN	Green: No communication connection	
		Green flash: communication is normal	
		Red: communication interrupted	
	PWR	Green: module power supply is normal	
		Off: module power is not connected	Yellow: Auxiliary power is not connected
	I/O	Green: Channel signal is normal	
Red: Port failure			
IO-Link	Class A		
Model	PNP	<b>CIO100-M12-DI16P</b>	<b>CIO100-M12-DO16P</b>
	NPN	<b>CIO100-M12-DI16N</b>	<b>CIO100-M12-DO16N</b>

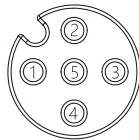
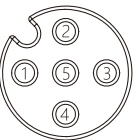
## I/O Port pin definition

	Pin definition	Address distribution																																							
Port  M12 A-code female end	<p style="text-align: center;"><b>M12(J1~J8)</b></p>  <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"><b>PNP Input</b></td> <td style="width: 50%; text-align: center;"><b>NPN Input</b></td> </tr> <tr> <td style="text-align: center;">1. 24VDC+</td> <td style="text-align: center;">1. 24VDC+</td> </tr> <tr> <td style="text-align: center;">2. Input</td> <td style="text-align: center;">2. Input</td> </tr> <tr> <td style="text-align: center;">3. 0V</td> <td style="text-align: center;">3. 0V</td> </tr> <tr> <td style="text-align: center;">4. Input</td> <td style="text-align: center;">4. Input</td> </tr> <tr> <td style="text-align: center;">5. FE</td> <td style="text-align: center;">5. FE</td> </tr> </table>	<b>PNP Input</b>	<b>NPN Input</b>	1. 24VDC+	1. 24VDC+	2. Input	2. Input	3. 0V	3. 0V	4. Input	4. Input	5. FE	5. FE	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Byte</th> <th>1</th> <th>0</th> </tr> </thead> <tbody> <tr><td>Bit0</td><td>J1P4</td><td>J5P4</td></tr> <tr><td>Bit1</td><td>J1P2</td><td>J5P2</td></tr> <tr><td>Bit2</td><td>J2P4</td><td>J6P4</td></tr> <tr><td>Bit3</td><td>J2P2</td><td>J6P2</td></tr> <tr><td>Bit4</td><td>J3P4</td><td>J7P4</td></tr> <tr><td>Bit5</td><td>J3P2</td><td>J7P2</td></tr> <tr><td>Bit6</td><td>J4P4</td><td>J8P4</td></tr> <tr><td>Bit7</td><td>J4P2</td><td>J8P2</td></tr> </tbody> </table>	Byte	1	0	Bit0	J1P4	J5P4	Bit1	J1P2	J5P2	Bit2	J2P4	J6P4	Bit3	J2P2	J6P2	Bit4	J3P4	J7P4	Bit5	J3P2	J7P2	Bit6	J4P4	J8P4	Bit7	J4P2	J8P2
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Master station parameters	IO-Link Number of ports	1 × device	
	IO-Link Handle data length	2 input bytes; 2 output bytes	1 input byte; 1 output byte
	Minimum cycle time	3 ms	
Input/Output parameters	Input and output quantity	16-way adaptive	8 inputs 8 outputs
	Rated working voltage	18~30V DC	
	Maximum load current (sensor)	200 mA	
	Maximum load current (actuator)	500 mA	
	Total current UI	< 1.6A	
	Total current UO	< 2.5A	
	Module indicator lights	IO-LINK RUN	Green: No communication connection
Green flash: communication is normal			
Red: communication interrupted			
PWR		Green: module power supply is normal	
		Yellow: Auxiliary power is not connected	
I/O		Green: Channel signal is normal	
	Red: Port failure		
Model	IO-Link	Class A	
	PNP	CIO100-M12-DIO16P	CIO100-M12-DI8DO8P
	NPN	CIO100-M12-DIO16N	CIO100-M12-DI8DO8N

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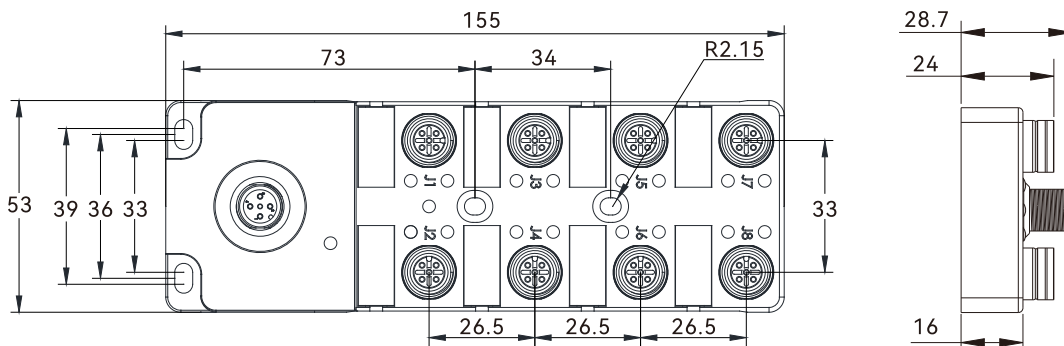
### I/O Port pin definition

	Pin definition	Address distribution																																				
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# Module slave

## Dimensions

Unit: mm



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication**
- Accessories

### IO Bus

- Module main station
- Module Slave**

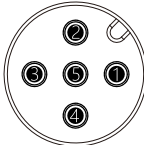
### Controller & Communicator

- Controller
- Communicator





NEW!

Basic parameters	Shell material	PA6 + GF
	Shell color	Black
	Protect degree	IP67 , Epoxy full potting
	External dimensions	140mm × 30mm × 24.8mm
	Weight	180g
	Operating temperature	-25°C~70°C
	Storage/transport temperature	-40°C~85°C
	Operating humidity	5%~95%
	Storage/transport humidity	5%~95%
	Operating atmospheric pressure	80KPa~106KPa
	Storage/transport atmospheric pressure	80KPa~106KPa
	I/O port fastening torque	M12:0.5Nm
	Application environment	Compliant with EN-61131
	Vibration testing	Compliant with IEC60068-2
	Shock testing	Compliant with IEC60068-27
	Free fall testing	Compliant with IEC60068-32
	Electromagnetic compatibility (EMC)	Compliant with IEC61000-4-2,-3,-4
Certification	CE,RoHS	
Installation hole specifications	Φ4.3mm × 2	
Pinout definition for data port	IO-Link	IO-Link M12 MALE
	Pinout definition for port	 <ul style="list-style-type: none"> <li>1. V+</li> <li>2. P24V</li> <li>3. 0V</li> <li>4. C/Q</li> <li>5. N/C</li> </ul>

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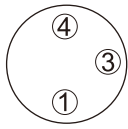
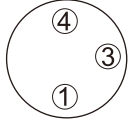
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# Module slave

## CIO 100 Series

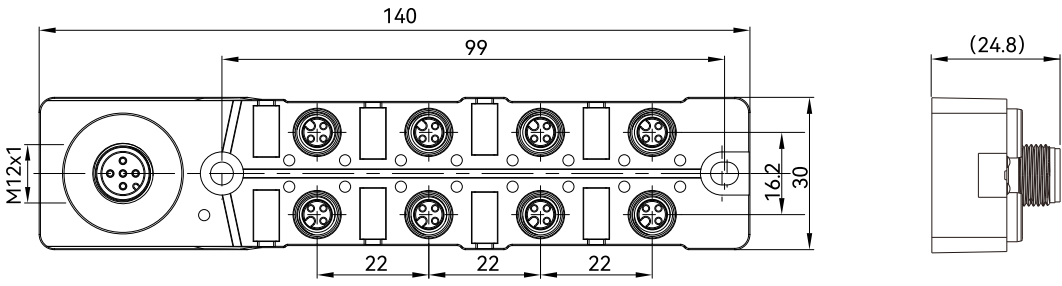
IO-Link Master station parameters	IO-Link Number of ports	1 x device	
	IO-Link Handle data length	1 input byte	1 output byte
	Minimum cycle time	3 ms	
Input/Output parameters	Input and output quantity	8 inputs	8 outputs
	Rated working voltage	18~30V DC	
	Maximum load current (sensor)	200 mA	-
	Maximum load current (actuator)	-	500 mA
	Total current UI	< 1.6A	-
	Total current UO	-	< 2.5A
Module indicator lights	IO-LINK RUN	Green: No communication connection	
		Green flash: communication is normal	
		Red: communication interrupted	
	I/O	Green: Channel signal is normal	
		Red: Port failure	
	IO-Link	Class A	
Model	PNP	<b>CIO100-M08-DI8P</b>	<b>CIO100-M08-DO8P</b>
	NPN	<b>CIO100-M08-DI8N</b>	<b>CIO100-M08-DO8N</b>

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