

Шины ввода-вывода IO-Link серии CIO100

Технические характеристики

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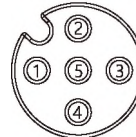
Basic parameters	Shell material	PA6 + GF
	Shell color	Black
	Ptotect degree	IP67 , Epoxy full potting
	External dimensions	155mm × 53mm ×28.7mm
	Weight	217g
	Operating temperature	-25℃~70℃
	Storage/transport temperature	-40℃~85℃
	Operating humidity	5%~95%
	Storage/transport humidity	5%~95%
	Operating 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 Pinout definition for port	IO-Link M12 MALE  1. V+ 2. P24V 3. 0V 4. C/Q 5. N/C

Module slave

CIO 100 Series

IO-Link Master station Parameters	IO-Link Number of ports	1 × 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 inputs
	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	CIO100-M12-DI16P	CIO100-M12-DO16P
	NPN	CIO100-M12-DI16N	CIO100-M12-DO16N

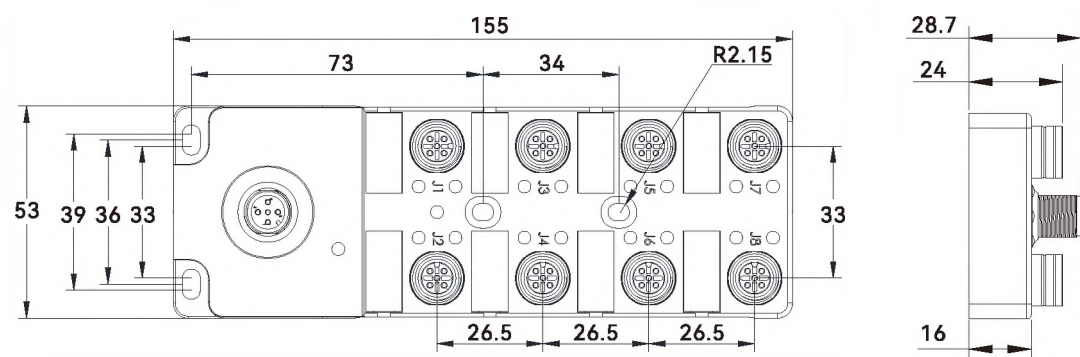
I/O Port pin definition

	Pin definition	Address distribution																											
Port	M12(J1~J8)  PNP Input 1. 24VDC+ 2. Input 3. 0V 4. Input 5. FE NPN Input 1. 24VDC+ 2. Input 3. 0V 4. Input 5. FE	<table> <tr> <th>Byte</th><th>1</th><th>0</th></tr> <tr> <td>Bit0</td><td>J1 P4</td><td>J5 P4</td></tr> <tr> <td>Bit1</td><td>J1 P2</td><td>J5 P2</td></tr> <tr> <td>Bit2</td><td>J2 P4</td><td>J6 P4</td></tr> <tr> <td>Bit3</td><td>J2 P2</td><td>J6 P2</td></tr> <tr> <td>Bit4</td><td>J3 P4</td><td>J7 P4</td></tr> <tr> <td>Bit5</td><td>J3 P2</td><td>J7 P2</td></tr> <tr> <td>Bit6</td><td>J4 P4</td><td>J8 P4</td></tr> <tr> <td>Bit7</td><td>J4 P2</td><td>J8 P2</td></tr> </table>	Byte	1	0	Bit0	J1 P4	J5 P4	Bit1	J1 P2	J5 P2	Bit2	J2 P4	J6 P4	Bit3	J2 P2	J6 P2	Bit4	J3 P4	J7 P4	Bit5	J3 P2	J7 P2	Bit6	J4 P4	J8 P4	Bit7	J4 P2	J8 P2
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Bit6	J4 P4	J8 P4																											
Bit7	J4 P2	J8 P2																											
Port	M12(J1~J8)  PNP Output 1. N/C 2. Output 3. 0V 4. Output 5. FE NPN Output 1. 24VDC+ 2. Output 3. N/C 4. Output 5. FE	<table> <tr> <th>Byte</th><th>1</th><th>0</th></tr> <tr> <td>Bit0</td><td>J1 P4</td><td>J5 P4</td></tr> <tr> <td>Bit1</td><td>J1 P2</td><td>J5 P2</td></tr> <tr> <td>Bit2</td><td>J2 P4</td><td>J6 P4</td></tr> <tr> <td>Bit3</td><td>J2 P2</td><td>J6 P2</td></tr> <tr> <td>Bit4</td><td>J3 P4</td><td>J7 P4</td></tr> <tr> <td>Bit5</td><td>J3 P2</td><td>J7 P2</td></tr> <tr> <td>Bit6</td><td>J4 P4</td><td>J8 P4</td></tr> <tr> <td>Bit7</td><td>J4 P2</td><td>J8 P2</td></tr> </table>	Byte	1	0	Bit0	J1 P4	J5 P4	Bit1	J1 P2	J5 P2	Bit2	J2 P4	J6 P4	Bit3	J2 P2	J6 P2	Bit4	J3 P4	J7 P4	Bit5	J3 P2	J7 P2	Bit6	J4 P4	J8 P4	Bit7	J4 P2	J8 P2
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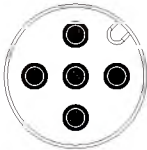
Master station parameters	IO-Link Number of ports	1 × device	
	IO-Link Handle data length	2 input bytes; 2 output bytes	1 input byte; 1 output byte
	Minimum cycle time	3 ms	
Input/Output parameters	Input and output quantity	16-way adaptive	8 inputs 8 outputs
	Rated working voltage	18~30V DC	
	Maximum 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

I/O Port pin definition

	Pin definition	Address distribution																																				
Port	M12(J1~J8)  PNP Input/Output 1.24VDC+ 2. Input/Output 3.0V 4. Input/Output 5.FE NPN Input/Output 1.24VDC+ 2. Input/Output 3.0V 4. Input/Output 5.FE	<table><tr><th>Byte</th><th>1</th><th>0</th></tr><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></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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M12 A-code female end																																						
Port	M12(J1~J8)  PNP InputOutput 1.24VDC+1.N/C 2. Input2. Output 3.0V3. 0 V 4. Input4. Output 5.FE5. FE NPN InputOutput 1. 24 VDC+1.24VDC+ 2. Input2. Output 3.0V3.N/C 4. Input4. Output 5.FE5.FE	<table><tr><th>Byte</th><th>1</th><th>Byte</th><th>0</th></tr><tr><td>Bit0</td><td>J1P4</td><td>Bit0</td><td>J5P4</td></tr><tr><td>Bit1</td><td>J1P2</td><td>Bit1</td><td>J5P2</td></tr><tr><td>Bit2</td><td>J2P4</td><td>Bit2</td><td>J6P4</td></tr><tr><td>Bit3</td><td>J2P2</td><td>Bit3</td><td>J6P2</td></tr><tr><td>Bit4</td><td>J3P4</td><td>Bit4</td><td>J7P4</td></tr><tr><td>Bit5</td><td>J3P2</td><td>Bit5</td><td>J7P2</td></tr><tr><td>Bit6</td><td>J4P4</td><td>Bit6</td><td>J8P4</td></tr><tr><td>Bit7</td><td>J4P2</td><td>Bit7</td><td>J8P2</td></tr></table>	Byte	1	Byte	0	Bit0	J1P4	Bit0	J5P4	Bit1	J1P2	Bit1	J5P2	Bit2	J2P4	Bit2	J6P4	Bit3	J2P2	Bit3	J6P2	Bit4	J3P4	Bit4	J7P4	Bit5	J3P2	Bit5	J7P2	Bit6	J4P4	Bit6	J8P4	Bit7	J4P2	Bit7	J8P2
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M12 A-code female end																																						





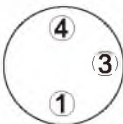
Basic parameters	Shell material	PA6 + GF
	Shell color	Black
	Protect degree	IP67 , Epoxy full potting
	External dimensions	140mm × 30mm × 24.8mm
	Weight	180g
	Operating temperature	-25℃~70℃
	Storage/transport temperature	-40℃~85℃
	Operating humidity	5%~95%
	Storage/transport humidity	5%~95%
	Operating 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 Pinout definition for port	IO-Link M12 MALE  1. V+ 2. P24V 3. 0V 4. C/Q 5. N/C

Module slave

CIO 100 Series

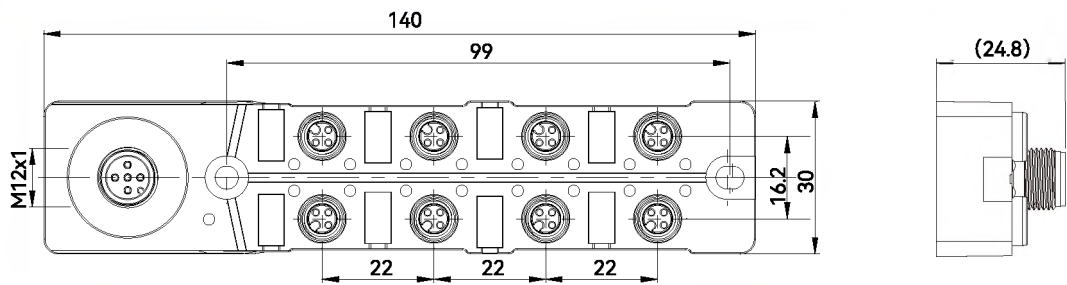
IO-Link Master station Parameters	IO-Link Number of ports	1 × device	
	IO-Link Handle data length	1 input byte	1 output byte
	Minimum cycle time	3 ms	
Input/Output parameters	Input and output quantity	8 inputs	8 outputs
	Rated working voltage	18~30V DC	
	Maximum load current (sensor)	200 mA	—
	Maximum 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	CIO100-M08-DI8P	CIO100-M08-DO8P
	NPN	CIO100-M08-DI8N	CIO100-M08-DO8N

I/O Port pin definition

	Pin definition	Address distribution																		
Port M12 A-code female end	M8(J1~J8)  PNP Input 1. 24 VDC+ 4. Input 3. 0 V NPN Input 1. 24 VDC+ 4. Input 3. 0 V	<table><tr><th>Byte</th><th>1</th></tr><tr><td>Bit0</td><td>J1P4</td></tr><tr><td>Bit1</td><td>J2P4</td></tr><tr><td>Bit2</td><td>J3P4</td></tr><tr><td>Bit3</td><td>J4P4</td></tr><tr><td>Bit4</td><td>J5P4</td></tr><tr><td>Bit5</td><td>J6P4</td></tr><tr><td>Bit6</td><td>J7P4</td></tr><tr><td>Bit7</td><td>J8P4</td></tr></table>	Byte	1	Bit0	J1P4	Bit1	J2P4	Bit2	J3P4	Bit3	J4P4	Bit4	J5P4	Bit5	J6P4	Bit6	J7P4	Bit7	J8P4
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Port M12 A-code female end	M8(J1~J8)  PNP Output 1. N/C 4. Output 3. 0 V NPN Output 1. 24VDC+ 4. Output 3. N/C	<table><tr><th>Byte</th><th>1</th></tr><tr><td>Bit0</td><td>J1P4</td></tr><tr><td>Bit1</td><td>J2P4</td></tr><tr><td>Bit2</td><td>J3P4</td></tr><tr><td>Bit3</td><td>J4P4</td></tr><tr><td>Bit4</td><td>J5P4</td></tr><tr><td>Bit5</td><td>J6P4</td></tr><tr><td>Bit6</td><td>J7P4</td></tr><tr><td>Bit7</td><td>J8P4</td></tr></table>	Byte	1	Bit0	J1P4	Bit1	J2P4	Bit2	J3P4	Bit3	J4P4	Bit4	J5P4	Bit5	J6P4	Bit6	J7P4	Bit7	J8P4
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Unit: mm

Dimensions



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