

XIOC—Analog



XIOC Analog Modules

Description	Pkg. Qty.	Style Number	Catalog Number
Inputs: 8 inputs 4–20 mA	1	262549	<b>XIOC-8AI-I2</b>
Inputs: 8 voltage inputs 0–10V	1	257899	<b>XIOC-8AI-U1</b>
Inputs: 8 voltage inputs, ±10V	1	257900	<b>XIOC-8AI-U2</b>
Inputs: 4 inputs for temperature monitoring, PT100/1000	1	257901	<b>XIOC-4T-PT</b>
Inputs: 4 inputs for thermocouples Type K, J, L, B, N, E, R, S, T	1	289933	<b>XIOC-4AI-T</b>
Outputs: 2 outputs, ±10V	1	257904	<b>XIOC-2AO-U2</b>
Outputs: 2 outputs 0–10V, 2 outputs 4–20 mA	1	257902	<b>XIOC-2AO-U1-2AO-I2</b>
Outputs: 4 outputs 0–10 V	1	257903	<b>XIOC-4AO-U1</b>
Combination modules: 2 inputs and 1 output 0–10V/1 ms conversion time	1	262409	<b>XIOC-2AI-1AO-U1</b>
Combination modules: 2 inputs and 1 output 0–10V, 0–20 mA/1 ms conversion time, individual changeover	1	281545	<b>XIOC-2AI-1AO-U1-I1</b>
Combination modules: 4 inputs and 2 outputs 0–10V/1 ms conversion time	1	262405	<b>XIOC-4AI-2AO-U1</b>
Combination modules: 4 inputs and 2 outputs 0–10V, 0–20 mA/1 ms conversion time, individual changeover	1	281544	<b>XIOC-4AI-2AO-U1-I1</b>

XIOC—Counter



Counter Modules

Description	Pkg. Qty.	Style Number	Catalog Number
1 input up to 100 kHz, 24 Vdc, 5 Vdc, 2 digital transistor outputs, opto-isolated, 24 Vdc 30-pin connector required for counter module	1	257906	<b>XIOC-1CNT-100KHZ</b>
2 inputs up to 100 kHz, (24 Vdc or 5V diff), 4 digital transistor outputs, opto-isolated, 24 Vdc 30-pin connector required for counter module	1	257907	<b>XIOC-2CNT-100KHZ</b>
2 incremental encoders up to 400 kHz, 5 Vdc, 2 analog outputs ±10V	1	262417	<b>XIOC-2CNT-2AO-INC</b>

XIOC—Communication Card



Communication Modules

Description	Pkg. Qty.	Style Number	Catalog Number
PROFIBUS-DP master module	1	257908	<b>XIOC-NET-DP-M</b>
PROFIBUS-DP node module	1	286419	<b>XIOC-NET-DP-S</b>
Serial interfaces: RS-232C, RS-485, RS-422 (for XC101, XC201 and XC202) Modes of operation: Transparent mode, Modbus master/node	1	267191	<b>XIOC-SER</b>
Serial interfaces: RS-232C, RS-485, RS-422 (for XC201 and XC202 only) Modes of operation: Transparent mode, Modbus master/node	1	135265	<b>XIOC-TC1</b>

**XIOC Analog Modules**

Description	Unit	XIOC-2AO-U1-2AO-I2	XIOC-4AO-U1	XIOC-2AO-U2
<b>Modules</b>				
Output voltage	Vdc	0–10	0–10	–10 to 10
Output current	mA	4–20	—	—
Resolution	bit	12	12	12
Conversion time		≤5 ms	≤5 ms	≤5 ms
Total errors	%	≤±1 (of full-scale value)	≤±1 (of full-scale value)	≤±1 (of full-scale value)
External load resistance				
Voltage output		≥10 kohm	≥10 kohm	≥10 kohm
Current output	ohm	0 to 500 ohm	—	—
Potential isolation				
Circuit within each channel		With optocouplers		
Between channels		No	No	No
Number of outputs				
Output voltage		2 (channels 0 and 1)	4	2
Output current		2 (channels 2 and 3)	—	—
Terminals		Plug-in terminal block		
Internal current consumption (5 Vdc)	mA	Normally 100	Normally 100	Normally 100
External power supply		24 Vdc (–15/+20%), approx. 150 mA	24 Vdc (–15/+20%), approx. 150 mA	24 Vdc (–15/+20%), approx. 150 mA
Connection type		2-core shielded cable (≤20m)		

**XIOC Analog Modules**

Description	Unit	XIOC-2AI-1AO-U1	XIOC-2AI-1AO-U1-I1	XIOC-4AI-2AO-U1	XIOC-4AI-2AO-U1-I1
<b>Inputs</b>					
Input voltage	Vdc	0–10	0–10	0–10	0–10
Input current	mA	—	0–20	—	0–20
Resolution	bit	14	14	14	14
Conversion time		<1 ms	<1 ms	<1 ms	<1 ms
Total errors	%	Normally 0.4	Normally 0.4	Normally 0.4	Normally 0.4
Potential isolation					
Circuit within each channel		No	No	No	No
Between the input channels		No	No	No	No
Between input/output channels		No	No	No	No
Channels	Number	2	2	4	4
Input resistance	kohm	40	40	40	40
<b>Outputs</b>					
Output voltage	Vdc	0–10	0–10	0–10	0–10
Output current	mA	—	0–20	—	0–20
Resolution	bit	12	12	12	12
Errors		Normally 0.4%	Normally 0.4%	Normally 0.4%	Normally 0.4%
Potential isolation					
Circuit within each channel		No	No	No	No
Between the output channels		No	No	No	No
Number of channels		1	1	2	2
External load resistance		≥2 kohm	≥2 kohm	≥2 kohm	≥2 kohm
Short-circuit rating		Yes	Yes	Yes	Yes
<b>Terminal Connection</b>					
Terminals		Plug-in terminal block			
Internal current consumption (5 Vdc)	mA	Normally 200	Normally 200	Normally 200	Normally 200
Weight	kg	0.16	0.16	0.16	0.16