

Digital input card for XC100/200, 24 V DC, 8DI



Part no. XIOC-8DI
257891
EL Number 4519660
(Norway)

General specifications		
Product name		Eaton XIOC Accessory Input card
Part no.		XIOC-8DI
EAN		4015082578916
Product Length/Depth		100 millimetre
Product height		95 millimetre
Product width		30 millimetre
Product weight		0.135 kilogram
Compliances		CE Marked RoHS Compliant
Certifications		UL Listed CSA Class No.: 2252-01 CSA CE EN 50178 UL508 CSA File No.: 012528 UL File No.: E135462 IEC/EN 61131-2 UL Category Control No.: NRAQ CSA-C22.2 No. 0-M CSA-C22.2 No. 142-M UL
Product Tradename		XIOC
Product Type		Accessory
Product Sub Type		Input card
Features & Functions		
Electric connection type		Screw-/spring clamp connection
General information		
Admissible range		20.4 – 28.8 V (11.8 – 14.4 V), Power supply
Current consumption		26 mA, with fitted modules
Degree of protection		IP20
Number of channels		8
Overvoltage category		II
Pollution degree		2
Protection		Protection class: 1
Repetition rate		1 s
Residual ripple		≤ 5 %
Switching level		≤ 15 V DC, ON, Voltage level to IEC 61131-2, limit value type 1, Inputs ≤ 5 V DC, OFF, Voltage level to IEC 61131-2, limit value type 1, Inputs
Type		Digital module
Used with		XC100/200 (expandable with up to 15 XI/OC modules)
Voltage type		DC
Ambient conditions, mechanical		
Impact resistance		500 g/∅ 50 mm ±25 g
Shock resistance		15 g, Mechanical, Shock duration 11 ms
Vibration resistance		57 - 150 Hz ± 1.0 mm 10 - 57 Hz, ± 0.075 mm
Climatic environmental conditions		
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-25 °C
Ambient storage temperature - max		70 °C

Electro magnetic compatibility		
Emitted interference		Class A (according to DIN/EN 55011/22)
Voltage dips		10 ms
Terminal capacities		
Terminals		Optionally, screw terminals or spring-loaded terminals for digital/analog modules Plug-in terminal block
Electrical rating		
Power loss		Max. 0.8 W
Rated operational voltage		24 (12) V DC
Short-circuit protection		Yes, Outputs
Supply voltage at AC, 50 Hz - min		0 V AC
Supply voltage at AC, 50 Hz - max		0 V AC
Supply voltage at DC - min		20.4 V DC
Supply voltage at DC - max		28.8 V DC
Communication		
LED indicator		Status indication: Green LED
Input/Output		
Delay time		≤ 5 ms typ., Digital inputs 24 V DC, Delay time from 0 to 1, Debounce ON ≤ 5 ms (normally 4 ms), Debounce ON
Input		Voltage (DC) 8 Inputs (24 V DC)
Input current		6.9 mA
Input current at signal 1		4 mA
Input impedance		3.5 kΩ
Input voltage		24 V DC (modules)
Number of inputs (digital)		8
Number of outputs (digital)		0
Output current		0 A
Safety		
Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Digital inputs: Opto-isolated
Design verification		
Equipment heat dissipation, current-dependent P _{vid}		0 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		0 W
Rated operational current for specified heat dissipation (I _n)		0 A
Static heat dissipation, non-current-dependent P _{vs}		0.8 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Meets the product standard's requirements.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.

10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / PLC digital I/O-module (EC001419)			
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / SPS digital input/output module (ecI@ss13-27-24-22-04 [AKE527019])			
Supply voltage AC 50 Hz	V		0 - 0
Supply voltage AC 60 Hz	V		0 - 0
Supply voltage DC	V		20.4 - 28.8
Voltage type (supply voltage)			DC
Number of digital inputs			8
Number of digital outputs			0
Digital inputs configurable			No
Digital outputs configurable			No
Power consumption	W		
Input current at signal 1	mA		4
Permitted voltage at input	V		20.4 - 28.8
Type of voltage (input voltage)			DC
Type of digital output			None
Output current	A		0
Permitted voltage at output	V		20.4 - 28.8
Type of output voltage			DC
Short-circuit protection, outputs available			No
Redundancy			No
Type of electric connection			Screw-/spring clamp connection
Time delay at signal change	ms		1 - 4
Suitable for safety functions			No
SIL according to IEC 61508			None
Performance level according to EN ISO 13849-1			None
Appendant operation agent (Ex ia)			No
Appendant operation agent (Ex ib)			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Width	mm		30
Height	mm		95
Depth	mm		100