

Digital input card XI/ON, 24 V DC, 2DI, pulse-switching

Part no. XN-2DI-24VDC-P Article no. 140056



Delivery program

Function	I/O modules
	Digital input modules
Function	XN Slice module
Short Description	2 Digital inputs, 24 V DC Positive switching
For use with	XN-S3T-SBB XN-S3S-SBB XN-S4T-SBBC XN-S4S-SBBC

Technical data

General			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Potential isolation			Yes, through optocoupler
Ambient temperature			
Ambient temperature, operation		°C	0 - +55
Storage, transport	θ	°C	-25 - +85
Relative humidity			
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Ambient conditions, mechanical			
Degree of Protection			IP20
Harmful gases		ppm	SO ₂ : 10 (rel. humidity < 75%, no condensation) H ₂ S: 1.0 (rel. humidity < 75 %,no condensation)
Vibration resistance, operating conditions			according to IEC/EN 60068-2-6
Mechanical shock resistance		g	according to IEC 60068-2-27
Continuous shock resistance (IEC/EN 60068-2-29)			According to IEC 60068-2-29
Drop and topple			According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61100-4-2
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	EN 61100-4-2
Burst			EN 61100-4-4
Surge			EN 61100-4-5
Radiated RFI		V	EN 61100-4-6
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	EN 55016-2-3
Voltage fluctuations/voltage dips			EN 61131-2
Type test			to EN 61131-2
Approvals			CE, cULus
Other technical data (sheet catalogue)			Technical Data

Analog input modules			
Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Heat dissipation		W	0.7
Base modules			
without C connection			2-/3-wire XN-S3x-SBB 2-wire proximity switches (Bero® initiators) can be attached, with a permissible quiescent current up to 1.5 mA.
Analog output modules			
Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
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Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Heat dissipation		W	0.7
Base modules			
without C connection			2-/3-wire XN-S3x-SBB 2-wire proximity switches (Bero® initiators) can be attached, with a permissible quiescent current up to 1.5 mA.

Digital outputs

Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from the supply terminal (at load current = 0 mA) $$	լլ	mA	20
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈
Power loss	P	W	Normally 1
Base modules			
with C connection			4-wire XN-S4x-SBBC

Digital inputs

Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	լլ	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Rated insulation voltage	Ui	V AC	500
Heat dissipation		W	0.7
Input voltage			
Nominal input voltage	U _e	V DC	24 V DC
Low level	U _e L	V	-30/+5 V
High level	U _e H	V	11 - 30 V
Input current			
Low level/active level	I _e L	mA	0 - 1.5 mA
High level/active level	I _{eH}	mA	2 - 10 mA
Input delay			
[†] Rising edge		μs	< 200
[†] Falling edge		μs	< 200
Base modules			
without C connection			2-/3-wire XN-S3x-SBB 2-wire proximity switches (Bero® initiators) can be attached, with a permissible quiescent current up to 1.5 mA.
with C connection			4-wire XN-S4x-SBBC

Relay modules

Rated voltage through supply terminal	U_{L}		24 V DC
Rated current consumption from supply terminal	IL	mA	20

Dated assessment an assessment on from module to-		A	
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈
Power loss	P	W	Normally 1
Base modules			
without C connection			2-/3-wire XN-S3x-SBB 2-wire proximity switches (Bero® initiators) can be attached, with a permissible quiescent current up to 1.5 mA.
with C connection			4-wire XN-S4x-SBBC
Power supply module			
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈
Power loss	P	W	1
Counter module			
Channels		Number	2
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈
Heat dissipation		W	0.7
Digital inputs			
Input voltage			
Nominal input voltage	U _e	V DC	24 V DC
Low level	U _e L	V	-30/+5 V
High level	$U_{\rm e}H$	V	11 - 30 V
Input current			
Low level	I _e L	mA	0 - 1.5 mA
High level	l _{eH}	mA	2 - 10 mA
Interfaces			
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈
Power loss	P	W	Normally 1

Notes

The supply terminal (U_L) supplies power for the card's electronics and for the sensors at the inputs. The total current required for each card is the sum of all partial currents.

Part of the XI/ON card's electronics is supplied with module bus voltage (5 V DC), the other part through the supply terminal (U_L).

Max. permissible capacity: 141 nF at 79 V AC/50 Hz; 23 nF at 265 V AC/50 Hz

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0.7
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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.

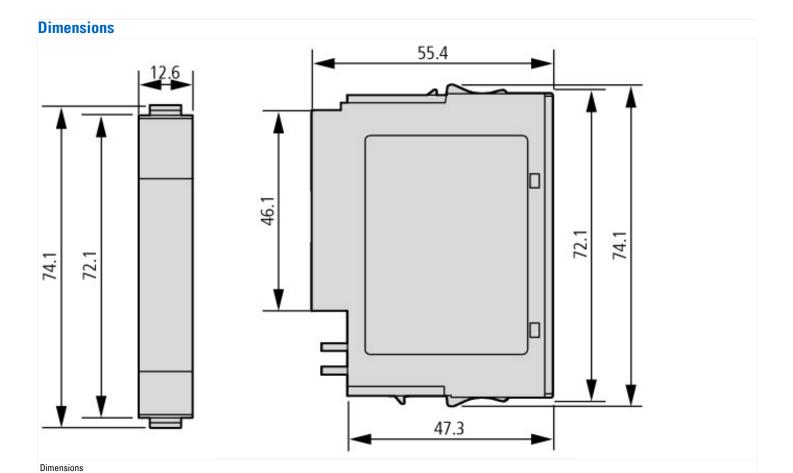
Technical data ETIM 6.0

recimical data Errivi 0.0		
PLC's (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)		
Electric engineering, automation, process control engineering / Control / Field bus, dece [BAA055011])	entralized periphera	al / Field bus, decentralized peripheral - digital I/O module (ecl@ss8.1-27-24-26-04
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type of supply voltage		DC
Number of digital inputs		2
Number of digital outputs		0
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	2
Permitted voltage at input	V	-30 - 30
Type of voltage (input voltage)		DC
Type of digital output		None
Output current	Α	0
Permitted voltage at output	V	0 - 0
Type of output voltage		DC
Short-circuit protection, outputs available		No
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With optical interface		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		Yes
Supporting protocol for CAN		Yes
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No

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Supporting protocol for PROFINET ID No Supporting protocol for EMPOSINET No Supporting protocol for Foundation Fieldbus No Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for Safety-BUS p No Supporting protocol for other bus systems Yes Radio sandard WMAN 802.1 No Radio sandard GERS No Radio sandard GERS No Radio sandard UMAN 802.1 No	Supporting protocol for DeviceNet		Yes
Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for Federose No Supporting protocol for EthenNexIIP No Supporting protocol for AS-Interface Safety at Work No Supporting protocol for Obel-celeta Eaftery No Radio standard Butta No Radio standard SSM No Radio standard SSM No Radio standard SSM No Radio standard SSM No	Supporting protocol for SUCONET		No
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Radio standard GSM Radio standard UMTS 10 link master System accessory 10 link master System accessory 10 link master 10 link	Radio standard WLAN 802.11		No
Radio standard UMTS No 10 link master No System accessory Yes Degree of protection (IP) IP20 Type of electric connection Plug-in connection Time delay at signal exchange ms 0 - 0 Rail mounting possible Yes Rail mounting possible Yes Wall mounting/direct mounting No Front build in possible No Rack-assembly possible No Statable for safety functions No Category according to EN 954-1 No Stl. according to IEC 61508 None Performance level acc. to EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ib) No Explosion safety category for dust None Width mm 12.6 Height mm 74.1	Radio standard GPRS		No
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Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height Mo 9 0 0 No No No No No None Mone Time delay at signal exchange None None	Degree of protection (IP)		IP20
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Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No	Wall mounting/direct mounting		No
Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No None None None None None None None	Front build in possible		No
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Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) No Explosion safety category for gas Explosion safety category for dust Width Meight No None 12.6 Meight None 74.1	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No None None 12.6 mm 74.1	Performance level acc. to EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Width mm 12.6 Height TAL1	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width Mm 12.6 Height Table 14.1	Appendant operation agent (Ex ib)		No
Width mm 12.6 Height mm 74.1	Explosion safety category for gas		None
Height mm 74.1	Explosion safety category for dust		None
	Width	mm	12.6
Depth mm 55.4	Height	mm	74.1
	Depth	mm	55.4

Approvals

UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
E205091
NRAQ, NRAQ7
UL report applies to both US and Canada
2252-01, 2252-81
UL recognized, certified by UL for use in Canada
No
No
IEC: IP20, UL/CSA Type: -



Additional product information (links)

MN05002010Z Manual Digital XI/ON modules, power supply modules	
MN05002010Z Handbuch Digitale XI/ON- Module Versorgungsmodule - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002010Z_DE.pdf
MN05002010Z Manual Digital XI/ON modules, power supply modules - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002010Z_EN.pdf
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111