



ECO gateway for XI/ON I/O system, SmartWire

Part no. XNE-1SWIRE
Catalog No. 140043
EL-Nummer (Norway) 4520682

Delivery program

Function			XI/ON technology modules
Function			XN Slice module
Short Description			Connection of up to 16 motor starters (Eaton) Up to 3 XNE-1SWIRE per XI/ON node

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	0	°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 61000-4-2
Electromagnetic fields	(0.08...1) / (1,4...2) / (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)	(30...230 MHz) / (230...1000 MHz)	dB	EN 55016-2-3
Voltage fluctuations/voltage dips			EN 61131-2
Type test			to EN 61131-2
Approvals			EAC
Other technical data (sheet catalogue)			Technical Data

Terminations

Rated data			according to VDE 0611 Part 1/8.92 /
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			IEC/EN 60947-7-1
Connection design in TOP direction			Push-In spring-cage terminals
Stripping length	mm		8
Clamping range			max. 0.14 - 1.5 mm ²
Connectable conductors			
"e" solid H07V-U	mm ²		0.25 - 1.5
"f" flexible H 07V-K	mm ²		0.25 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm ²		0.25 - 1.5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm ²		0.25 - 0.75
Connectable conductors			
"e" solid H07V-U	mm ²		0.25 - 1.5
"f" flexible H 07V-K	mm ²		0.25 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm ²		0.25 - 1.5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm ²		0.25 - 0.75

Analog input modules

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from supply terminal	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60
Diagnostics			4

Analog output modules

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from supply terminal	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60

Digital outputs

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from the supply terminal (at load current = 0 mA)	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60
Power loss	P	W	Normally 1.5
Number of diagnostic bytes			4

Digital inputs

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from supply terminal	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60

Relay modules

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from supply terminal	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60
Power loss	P	W	Normally 1.5

Power supply module

Rated voltage through supply terminal	U _L		24 V DC
Rated current consumption from supply terminal	I _L	mA	0
Rated current consumption from module bus	I _{MB}	mA	≤ 60
Supply voltage SWIRE	U _{SW}		24 V DC
Supply current SWIRE (LIN line at full load)			≤ 600 mA
Power supply SmartWire (contactor)			24 V DC 3 A
SWIRE connection			SWIRE-line: 1 XNE-1 SWIRE module per XI/ON station: ≤ 3 SWIRE modules per line: ≤ 16 Data per SWIRE module: max. 4I/4Q Supply of SWIRE nodes (short-circuit proof): 17 V DC Supply current of all nodes (short-circuit proof): ≤ 500
Diagnostics			4
Insulation voltage			
between interface and module bus/system voltage		V _{eff}	500

between interface and field voltage			None
Power loss	P	W	1.5
Counter module			
Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	I_L	mA	0
Rated current consumption from module bus	I_{MB}	mA	≤ 60

Measuring modes

Diagnostics			4
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Interfaces

Rated voltage through supply terminal	U_L		24 V DC
Rated current consumption from supply terminal	I_L	mA	0
Rated current consumption from module bus	I_{MB}	mA	≤ 60
Power loss	P	W	Normally 1.5
Insulation voltage			
between interface and module bus/system voltage		V_{eff}	500
Number of diagnostic bytes			4

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	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	1.5
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 7.0

PLC's (EG000024) / Fieldbus, decenter. periphery - communication module (EC001604)

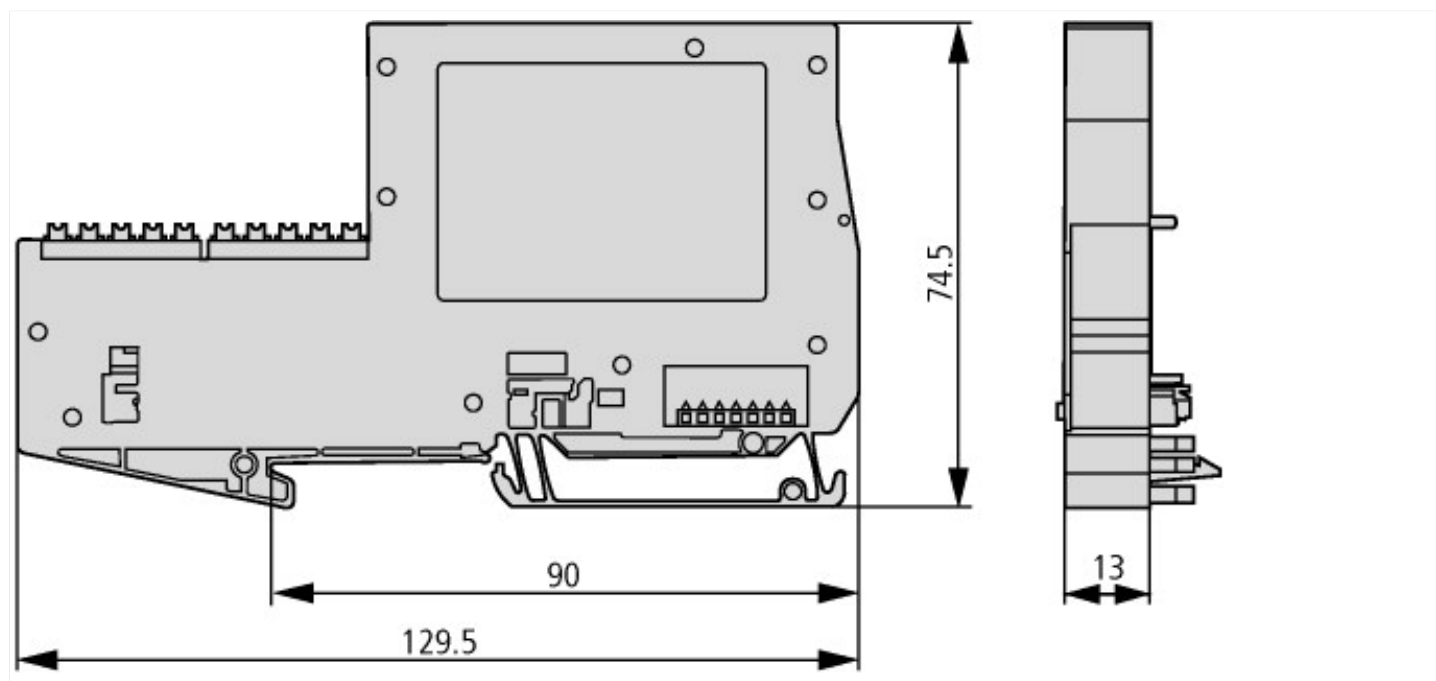
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module
(ec1@ss10.0.1-27-24-26-08 [BAA073013])

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
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for SERCOS		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
System accessory		Yes
Degree of protection (IP)		IP20
With potential separation		Yes
Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		No
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. 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	13
Height	mm	129.5
Depth	mm	74.5

Approvals

Product Standards		IEC/EN 6113-2; CE marking
North America Certification		Request filed for UL and CSA
Specially designed for North America		No
Current Limiting Circuit-Breaker		No
Degree of Protection		IEC: IP20, UL/CSA Type: -

Dimensions



Dimensions

Assets (links)

Declaration of CE Conformity

00002416

Manuals

MN05002016Z_DE (German)

MN05002016Z_EN (English)

Additional product information (links)

User manual XI/ON technology module XNE-1SWIRE MN05002016Z

Benutzerhandbuch XI/ON Technologiemodul XNE-1SWIRE MN05002016Z - Deutsch ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002016Z_DE.pdf

User manual XI/ON technology module XNE-1SWIRE MN05002016Z - English ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002016Z_EN.pdf

Technical Data <http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111>