



140036

XNE-8DO-24VDC-0.5A-P

Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Function

Technical data

XI/ON I/O modules

Design verification as per IEC/EN 61439

Function

XNE Slice module

Technical data ETIM 7.0

Short Description

8 Digital output, 24 V DC/0.5 A

Positive switching

Approvals

TECHNICAL DATA

Dimensions

General

Standards EN 61000-6-2 EN 61000-6-4 EN 61131-2 Potential isolation Yes, through optocoupler

Ambient temperature, operation 0 - +55 °C

Ambient temperature Storage, transport [8] -25 - +85 °C

Relative humidity
Relative humidity
5 - 95 % (indoor), Level RH-2, no condensation
(for storage at 45°C)

Ambient conditions, mechanical Degree of Protection IP20

Ambient conditions, mechanical Harmful gases SO₂: 10 (rel. humidity < 75%, no condensation) H₂S: 1.0 (rel. humidity < 75 %,no condensation) ppm

Vibration resistance, operating conditions according to IEC/EN 60068-2-6

Mechanical shock resistance according to IEC 60068-2-27 g

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

ESD [Air/contact discharge]
EN 61000-4-2 kV

Bectromagnetic compatibility (BVC)
Bectromagnetic fields [(0.08...1) / (1,4...2) / (2...
2,7) GHz]
BN 61100-4-2 V/m

Bectromagnetic compatibility (BMC) Burst EN61100-4-4 Bectromagnetic compatibility (BMC) Surge EN61100-4-5 Bectromagnetic compatibility (BMC) Radiated RFI EN61100-4-6 V Bectromagnetic compatibility (BMC) Emitted interference (radiated, high frequency) [(30...230 MHz) / (230...1000 MHz)]EN 55016-2-3 dB Bectromagnetic compatibility (BMC) Voltage fluctuations/voltage dips EN61131-2 Bectromagnetic compatibility (BMC) Type test to EN61131-2 Approvals CE, cULus EAC Other technical data (sheet catalogue) Technical Data **Terminations** Rated data according to VDE 0611 Part 1/8.92 / IEC/EN 60947-7-1 Connection design in TOP direction Push-In spring-cage terminals Stripping length $8\,mm$ Clamping range

Connectable conductors Outputs to EN 61131-2 0.25 - 1.5 mm²

Connectable conductors
Reset after short-circuit rectified
0.25 - 1.5 mm²

Connectable conductors Vibration resistance, operating conditions 0.25 - 1.5 mm²

Connectable conductors
"f" with ferrules with plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 0.75 mm²

Connectable conductors
"e" solid H07V-U
0.25 - 1.5 mm²

Connectable conductors
"f" flexible H07V-K
0.25 - 1.5 mm²

Connectable conductors
"f" with ferrules without plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 1.5 mm²

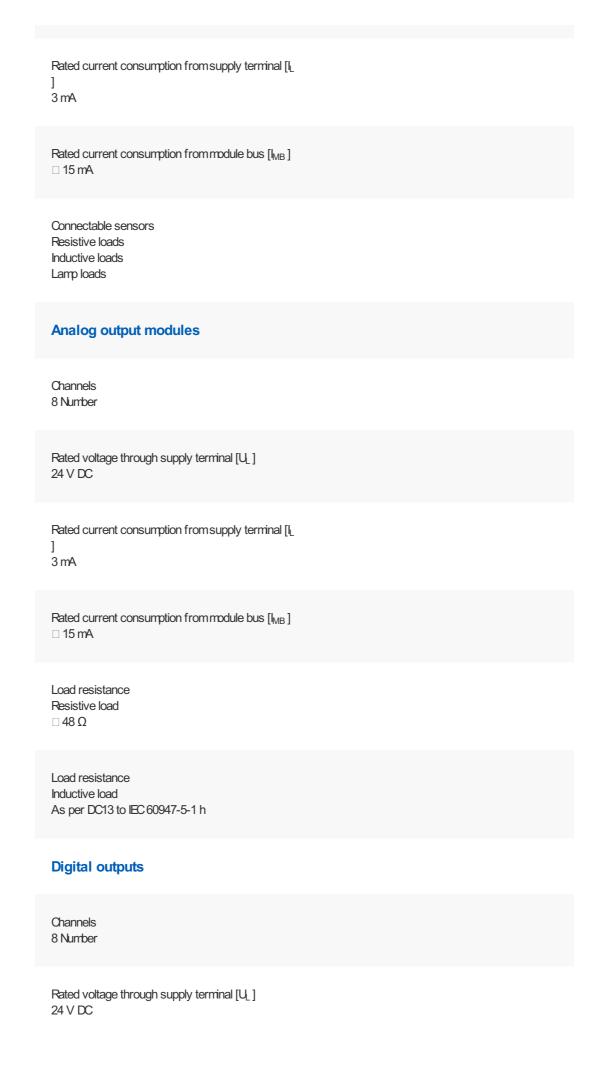
Connectable conductors
"f" with ferrules with plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 0.75 mm²

Gauge pin IEC/EN 60947-1 A1

Analog input modules

Channels 8 Number

Rated voltage through supply terminal [U_] 24 V DC





Switching frequency With resistive load [f] 100 Hz Switching frequency with inductive load As per DC13 to IEC 60947-5-1 Switching frequency Switching frequency with lamp load [f] 10 Hz Outputs to EN61131-2 short-circuit proof Reset after short-circuit rectified [I_i] Automatic **Digital inputs** Channels 8 Number Rated voltage through supply terminal [U_] 24 V DC Rated current consumption from supply terminal [L $3 \, \text{mA}$ Rated current consumption from module bus $[I_{MB}]$ □ 15 mA Relay modules Rated voltage through supply terminal $[U_L]$ 24 V DC Rated current consumption from supply terminal [IL $3 \, \text{mA}$ Rated current consumption from module bus [I_{MB}]

	□ 15 mA
	Power loss [P] Normally 1.5 W
	Can be connected Resistive loads Inductive loads Lamp loads
	Utilization factor [g] 100 %
	Power supply module
	Rated voltage through supply terminal [U_] 24 V DC
	Rated current consumption from supply terminal [IL]] 3 mA
	Rated current consumption from module bus [I _{MB}]
	Power loss [P] 1.5 W
	Counter module
	Channels 8 Number
	Rated voltage through supply terminal [UL] 24 V DC
	Rated current consumption from supply terminal [IL]] 3 mA
	Rated current consumption from module bus [I _{MB}] □ 15 mA
	Digital outputs

Output current $\textbf{High level (permissible range) [I_{H}\,]}$ < 1.0 A Output current High level (rated value) [I_H] 0.5 A Switching frequency Switching frequency with lamp load [f] 10 Hz Lamp load [R_{LL}] □6W Short-circuit rating short-circuit proof **Interfaces** Rated voltage through supply terminal [U_] 24 V DC Rated current consumption from supply terminal [L $3\,\text{mA}$ Rated current consumption from module bus [I_{MB}] □ 15 mA Power loss [P]

Notes

Normally 1.5 W

The supply terminal (U_{\cdot}) provides power for the module electronics and for the consumers at the outputs. The total current required for each module consists of the sum of all partial currents.

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

To increase the maximum output current to up to 1 A, two outputs can be connected in parallel.

Note for table header The rated current from supply terminal data apply at zero load current.

Applies for resistive load: RLO < $1k\Omega$

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification Rated operational current for specified heat dissipation [In] 0 A Heat dissipation per pole, current-dependent [P_{id}] Equipment heat dissipation, current-dependent [P_{vid}] 0 W Static heat dissipation, non-current-dependent [Pvs] 1.5 W Heat dissipation capacity [Pdiss] 0 W Operating ambient temperature min. 0°C Operating ambient temperature max. +55 °C Degree of Protection IP20

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Weets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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.

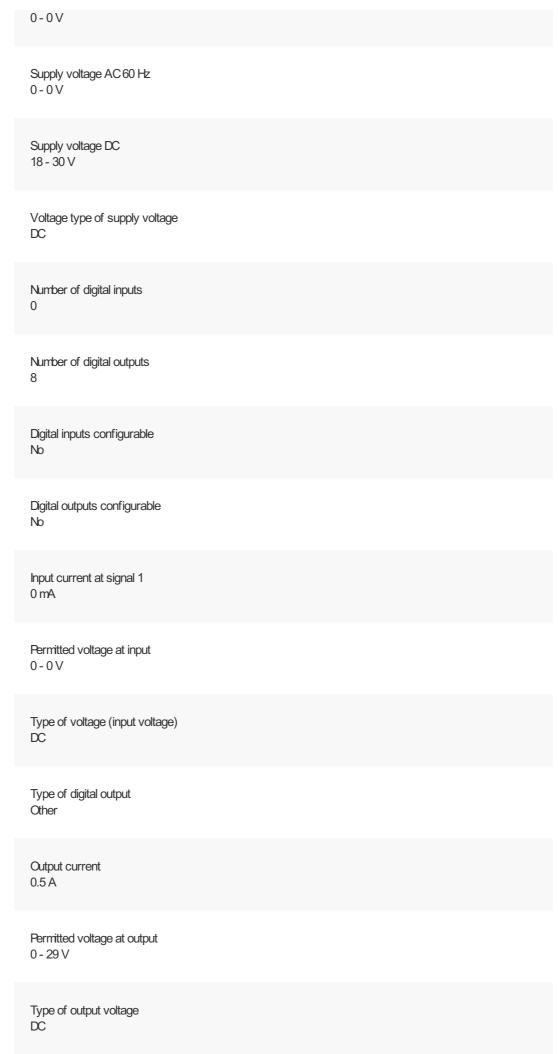
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

PLCs (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)

Bectric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss10.0.1-27-24-26-04 [BAA055014])

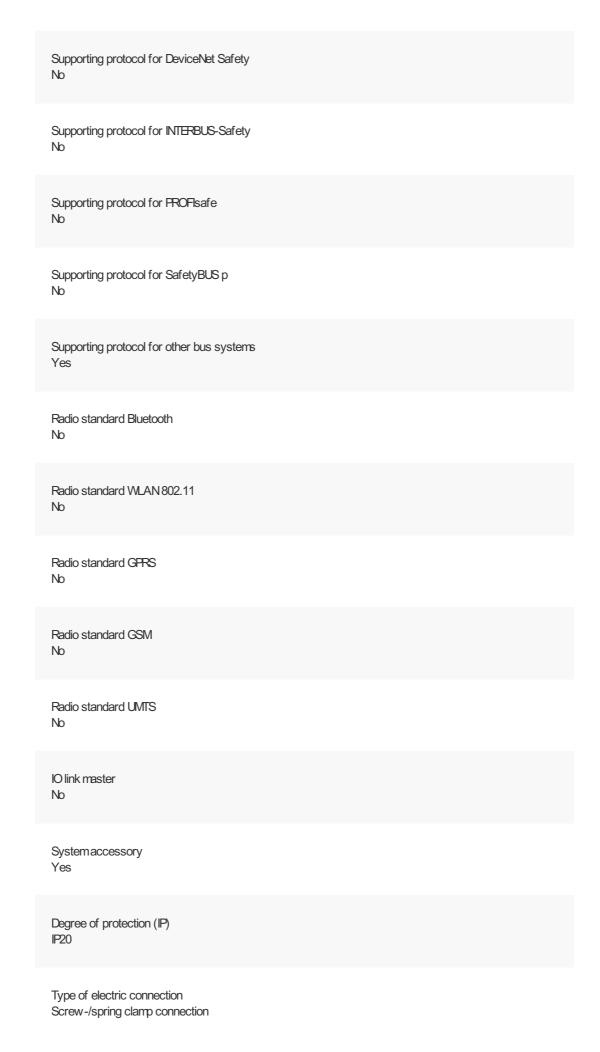
Supply voltage AC 50 Hz



Short-circuit protection, outputs available Yes
Number of HW-interfaces industrial Ethernet 0
Number of interfaces PROFINET 0
Number of HW-interfaces RS-232 0
Number of HW-interfaces RS-422 0
Number of HW-interfaces RS-485
Number of HW-interfaces serial TTY 0
Number of HW-interfaces parallel 0
Number of HW-interfaces Wireless 0
Number of HW-interfaces USB 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 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 PROFINET IO No
Supporting protocol for PROFINET CBA No
Supporting protocol for SERCOS No
Supporting protocol for Foundation Fieldbus No
Supporting protocol for EtherNet/IP No
Supporting protocol for AS-Interface Safety at Work

No



Time delay at signal exchange 0 - 0.3 ms
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 None
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 13 mm
Height 129.5 mm
Depth 74.5 mm
APPROVALS
Product Standards UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No. E205091
UL Category Control No. NRAQ, NRAQ7
CSA File No. UL report applies to both US and Canada
CSA Class No. 2252-01, 2252-81
North America Certification UL recognized, certified by UL for use in Canada
Specially designed for North America No
Current Limiting Circuit-Breaker No
Degree of Protection IEC: IP20, UL/CSA Type: -

DIMENSIONS



Link to sheet catalogue Dimensions







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