# DATASHEET - XNE-GWBR-CANOPEN

**ECO gateway for XI/ON I/O system, integrated**

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|---|---|
| **Part no.** | **XNE-GWBR-CANOPEN** |
| | **140044** |
| **EL Number (Norway)** | **4520000** |

## General specifications

| | |
|---|---|
| Product name | Eaton XNE Gateway |
| Part no. | XNE-GWBR-CANOPEN |
| EAN | 7640130120600 |
| Product Length/Depth | 129 millimetre |
| Product height | 75 millimetre |
| Product width | 33.5 millimetre |
| Product weight | 0.136 kilogram |
| Certifications | Rated data for terminations according to IEC/EN 60947-7-1<br>CULus<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-4<br>CE<br>IEC/EN 61131-2<br>IEC/EN 6113-2 |
| Product Tradename | XNE |
| Product Type | Gateway |
| Product Sub Type | None |
| Catalog Notes | supports up to 62 disc-type modules (XN, XNE) |

## Features & Functions

| | |
|---|---|
| Features | Fieldbus connection over separate bus coupler possible |
| Fitted with: | Bus refreshing module<br>Potential separation |

## General information

| | |
|---|---|
| Accessories | 1 x end plate XN-ABPL and 2 x end bracket XN-WEW-32/2-SW included with supplied equipment. |
| Admissible range | 18 - 30 V DC, Networking |
| Configuration | Maximum station configuration: 62 cards (XN, XNE) of slice design or max. length of station: 1 m |
| Degree of protection | IP20 |
| Mounting method | Rail mounting possible |
| Residual ripple | According to EN 61131-2 |
| Type | XI/ON ECO gateways<br>XNE-Gateway with integrated supply |
| Voltage type | DC |

## Ambient conditions, mechanical

| | |
|---|---|
| Drop and topple | According to IEC 60068-2-31, free fall according to IEC 60068-2-32 |
| Shock resistance | Mechanical, According to IEC/EN 60068-2-27<br>Continuous according to IEC/EN 60068-2-29 |
| Vibration resistance | According to IEC/EN 60068-2-6 |

## 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 | 85 °C |
| Environmental conditions | Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)<br>Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation) |
| Relative humidity | 5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C) |

## Electro magnetic compatibility

| | |
|---|---|
| Air discharge | According to EN 61100-4-2 |
| Burst impulse | According to IEC/EN 61000-4-4 |
| Contact discharge | According to EN 61100-4-2 |

| | |
|---|---|
| Electromagnetic fields | According to IEC EN 61100-4-2 |
| Emitted interference | 230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3)<br>30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3) |
| Radiated RFI | IEC/EN 61100-4-6 |
| Surge rating | According to IEC/EN 61000-4-5 Level 4 |
| Voltage dips | According to EN 61131-2 (Voltage fluctuations/voltage dips) |

## Terminal capacities

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|---|---|
| Terminal capacity | 0.25 - 1.5 $mm^2$, with ferrules without plastic collar<br>0.25 - 1.5 $mm^2$, solid<br>0.25 - 1.5 $mm^2$, flexible without ferrule<br>0.25 - 0.75 $mm^2$, with ferrules with plastic collar |
| Gauge pin | A1 (according to IEC/EN 60947-1) |
| Stripping length (main cable) | 8 mm |

## Electrical rating

| | |
|---|---|
| Supply voltage | 4.7 - 5.3 V DC |
| Supply voltage at AC, 50 Hz - min | 0 V |
| Supply voltage at AC, 50 Hz - max | 0 V |
| Supply voltage at DC - min | 18 V |
| Supply voltage at DC - max | 30 V |

## Communication

| | |
|---|---|
| Addressing | Address set via DIP switch<br>Address range: 1 - 63 decimal |
| Bus termination | Via DIP switch, Networking |
| Connection type | Push-In spring-cage terminals, Field bus<br>Spring-cage terminals, Field bus/Supply voltage)<br>Push-In spring-cage terminals, Connection design in TOP direction |
| Data transfer rate | 800 kBit/s<br>50 kBit/s<br>500 kBit/s, Networking<br>800 kBit/s, Networking<br>125 kBit/s, Networking<br>250 kBit/s<br>10 kBit/s, Networking<br>1000 kBit/s, Networking<br>1000 kBit/s<br>20 kBit/s<br>Setting through DIP switch or automatically<br>50 kBit/s, Networking<br>250 kBit/s, Networking<br>500 kBit/s<br>125 kBit/s |
| Field voltage | 24 V DC (UL) |
| Interfaces | PS/2 socket (Service interface)<br>CANopen®, Field bus connection |
| Protocol | CANopen®<br>CAN<br>Other bus systems |

## Safety

| | |
|---|---|
| Explosion safety category for dust | None |
| Explosion safety category for gas | None |
| Potential isolation | Through optocoupler: yes |

## Design verification

| | |
|---|---|
| Equipment heat dissipation, current-dependent Pvid | 0 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 0 W |
| Rated operational current for specified heat dissipation (In) | 0 A |
| Static heat dissipation, non-current-dependent Pvs | 6 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) / Fieldbus, decentr. periphery - communication module (EC001604) | | | |
| Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss13-27-24-26-08 [BAA073018]) | | | |
| Supply voltage AC 50 Hz | | V | 0 - 0 |
| Supply voltage AC 60 Hz | | V | 0 - 0 |
| Supply voltage DC | | V | 18 - 30 |
| Voltage type (supply voltage) | | | DC |
| Number of HW-interfaces CAN | | | |
| Number of HW-interfaces industrial Ethernet | | | |
| Number of interfaces PROFINET | | | |
| Number of HW-interfaces RS-232 | | | |
| Number of HW-interfaces RS-422 | | | |
| Number of HW-interfaces RS-485 | | | |
| Number of HW-interfaces serial TTY | | | |
| Number of HW-interfaces USB | | | |
| Number of HW-interfaces parallel | | | |
| Number of HW-interfaces wireless | | | |
| Number of HW-interfaces other | | | |
| Supporting protocol for EtherCAT | | | No |
| Supporting protocol for TCP/IP | | | No |
| Supporting protocol for PROFIBUS | | | No |
| Supporting protocol for CAN | | | 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 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 | | | Yes |
| Radio standard Bluetooth | | | No |
| Radio standard WLAN 802.11 | | | No |
| Radio standard GPRS | | | No |
| Radio standard eGPRS | | | No |
| Radio standard GSM | | | No |
| Radio standard LTE | | | 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 built-in possible | | | No |
| Rack-assembly possible | | | No |
| 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 |
| Certified for UL hazardous location class I | | | No |
| Certified for UL hazardous location class II | | | No |
| Certified for UL hazardous location class III | | | No |
| Certified for UL hazardous location division 1 | | | No |
| Certified for UL hazardous location division 2 | | | No |
| Certified for UL hazardous location group A (acetylene) | | | No |
| Certified for UL hazardous location group B (hydrogen) | | | No |
| Certified for UL hazardous location group C (ethylene) | | | No |
| Certified for UL hazardous location group D (propane) | | | No |
| Certified for UL hazardous location group E (metal dusts) | | | No |
| Certified for UL hazardous location group F (carbonaceous dusts) | | | No |
| Certified for UL hazardous location group G (non-conductive dusts) | | | No |
| Width | | mm | 33.5 |
| Height | | mm | 75 |
| Depth | | mm | 129 |


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