X1-NIS-RLO/SS-05

Models: X1-NIS-RLO/SS-05-Sa

SAFETY INFORMATION

Optional Variant Code

a = blank or “/” and two alpha-numeric characters, referring to functionally diversified versions that do not change the safety requirements and compliance.

Approvals

IECEx certificate: IECEx FMG 23.0018X
IECEx marking: Ex ec IIC T4 Gc Ta = -40°C to +70°C

ATEX certificate: FM23ATEX0039X
ATEX marking: II 3G Ex ec IIC T4 Gc Ta = -40°C to +70°C

UKEX certificate: FM23UKEX0040X
UKEX marking: II 3G Ex ec IIC T4 Gc Ta = -40°C to +70°C

FM US certificate: FM23US0073X
FM US marking: NI CL I, DIV 2, GP A, B, C, D T4 Ta = -40°C to +70°C; ZN 2, AEx ec IIC T4 Gc Ta = -40°C to +70°C
FM Canada certificate: FM23CA0055X
FM Canada marking: NI CL I, DIV 2, GP A, B, C, D T4 Ta = -40°C to +70°C; ZN 2, Ex ec IIC T4 Gc Ta = -40°C to +70°C

Other approvals can be found on www.gminternational.com website.

System Supply

24 Vdc nom (18 to 28.8 Vdc) / 22 to 27 mA.

System In

24 Vdc nom (18 to 28.8 Vdc).

Field Supply

DC voltage supply (C-B).
Voltage range: 0 to 60 Vdc.

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Field Out

NE load (A-Z).

Max ratings: 2 A 60 Vdc 120 W.

Environmental conditions

Use: indoor or outdoor.
Altitude: up to 2000 m.
Operating temperature: temperature limits –40 to +70 °C.
Relative humidity: humidity limits 10% to 95% (non-condensing).
Pollution degree: 2 or better.

User responsibility

The plant operator is responsible for planning, installation, commissioning, operation, maintenance and decommissioning of the product during its entire life cycle.
Personnel must have the appropriate knowledge, skills and competences to perform the related operations. Carefully read and understand the instruction manual.

Intended use

The device is intended to be used only for the function described in this manual. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.
Read this manual in conjunction with instruction manual of the X1 series termination board used in the application. Other documents like datasheets, manuals, drawings, declarations of conformity and certificates, when applicable, complete this document. Please visit www.gminternational.com.

Improper use

If the device is not used according to its intended use or not properly installed, this may result in the risk of damage to the unit or severe personal injury.

Putting into service, fitting and removing to termination boards

The device is suitable for installation on X1 series termination boards (X1-TB-*), with any orientation over the entire ambient temperature range. Modules can be plugged and unplugged to termination boards without suffering or causing any damage. Fit the module on the termination board along the guides until it is completely inserted. Extract the module from the termination board using the appropriate lever mechanism. In this way no incorrect insertion is allowed.

Installation

The device must be connected to SELV or PELV supplies. All circuits connected to the devices must comply with the overvoltage category II (or better) according to IEC/EN 60664-1.
The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC/EN 60664-1. The end user is responsible to ensure that the operating temperature of the module is not exceeded in the end use application.

Requirements as zone 2 / div. 2 electrical equipment

The device must be installed, operated and maintained only by qualified personnel, in accordance to the relevant national/international installation standards (e.g. IEC/EN60079-14 Explosive atmospheres - Part 14: Electrical installations design, selection and erection), following the established installation rules.
Warning - explosion hazard: do not connect or disconnect when energized, unless area is known to be nonhazardous. / Avertissement - risque d’explosion: ne pas brancher ni débrancher sous tension, à moins de savoir que l’emplacement n’est pas dangereux.

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Specific Conditions of Use

The following are applicable for US, Canada, ATEX, UKEX and IECEx:
1) The apparatus must be installed within a tool secured enclosure that provides a minimum degree of protection of IP54 and is in accordance with IEC/EN/UL/CSA 60079-0.
2) The apparatus shall only be used in an area of at least Pollution Degree 2, as defined in IEC 60664-1.
The following are applicable for US and Canada:
1) Apparatus shall be installed in compliance with the enclosure, mounting, spacing and segregation of the ultimate application.

Maintenance and repair

The device must be protected against dirt, dust, extreme mechanical (e.g. vibration, impact and shock) and thermal stress, and casual contacts. If enclosure needs to be cleaned use only a cloth lightly moistened by a mixture of detergent in water. Any penetration of cleaning liquid must be avoided to prevent damage to the unit.
No adjustment is necessary to safely operate the unit.
The device cannot be repaired by the end user and must be returned to the manufacturer or his authorized representative. Any unauthorized modification must be avoided.

Taking out of service and dismantling

Extract the module from the termination board using the appropriate lever mechanism.

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