

X1-NIS-PAS-01

SIL3 Pass-Through Module with Over-Voltage/Over-Current Protections

The Pass-Through X1-NIS-PAS-01 module puts into direct connection the system with the field for a flexible marshalling. It is suitable for applications requiring SIL 3 level in safety related systems for high risk industries. It also provides over-voltage and over-current protections and it can supply the field device, e.g. 3/4-wire transmitters, through the Termination Board power. To ease maintenance operations, field devices can be disconnected through a two-position insertion/extraction mechanism. This product requires a dedicated Termination Board.

FEATURES

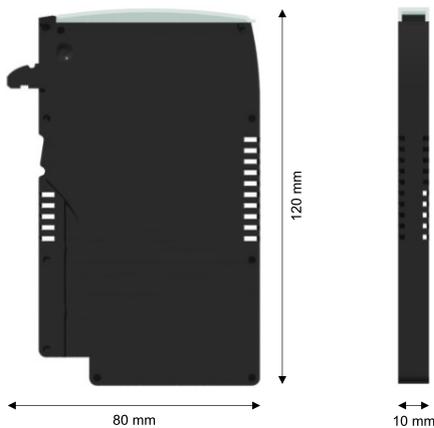
- SIL 3 / SC 3
- Installation in Zone 2 / Division 2
- Loop disconnection to ease maintenance operations
- Over-voltage and over-current protections
- Suitable for any field device, including 3/4-wire transmitters
- Two port isolation, InOut/Supply

ORDERING INFORMATION

Ordering codes

X1-NIS-PAS-01-S: 1 channel

OVERALL DIMENSIONS



TECHNICAL DATA

General

Power dissipation:

0.15 W, with 50 mA signal current and 500 mA supply current, max
0.02 W, with 50 mA signal current and no supply, max.

System Supply

24 Vdc nom (18 to 28.8 Vdc). The voltage is forwarded to the Field Supply through a resettable fuse protection to power the device.

Max current: 500 mA.

System InOut

The System InOut signal is forwarded to the Field InOut interface through a resettable fuse and a transient voltage protection.

Max voltage: 28.8 V.

Max current: 50 mA.

Field Supply

Max current: 500 mA.

Field InOut

Max voltage: 28.8 V.

Max current: 50 mA.

Isolation

System InOut/System Supply 500 V.

Environmental conditions

Operating temperature: temperature limits -40 to +70 °C.

Storage temperature: temperature limits -45 to +80 °C.

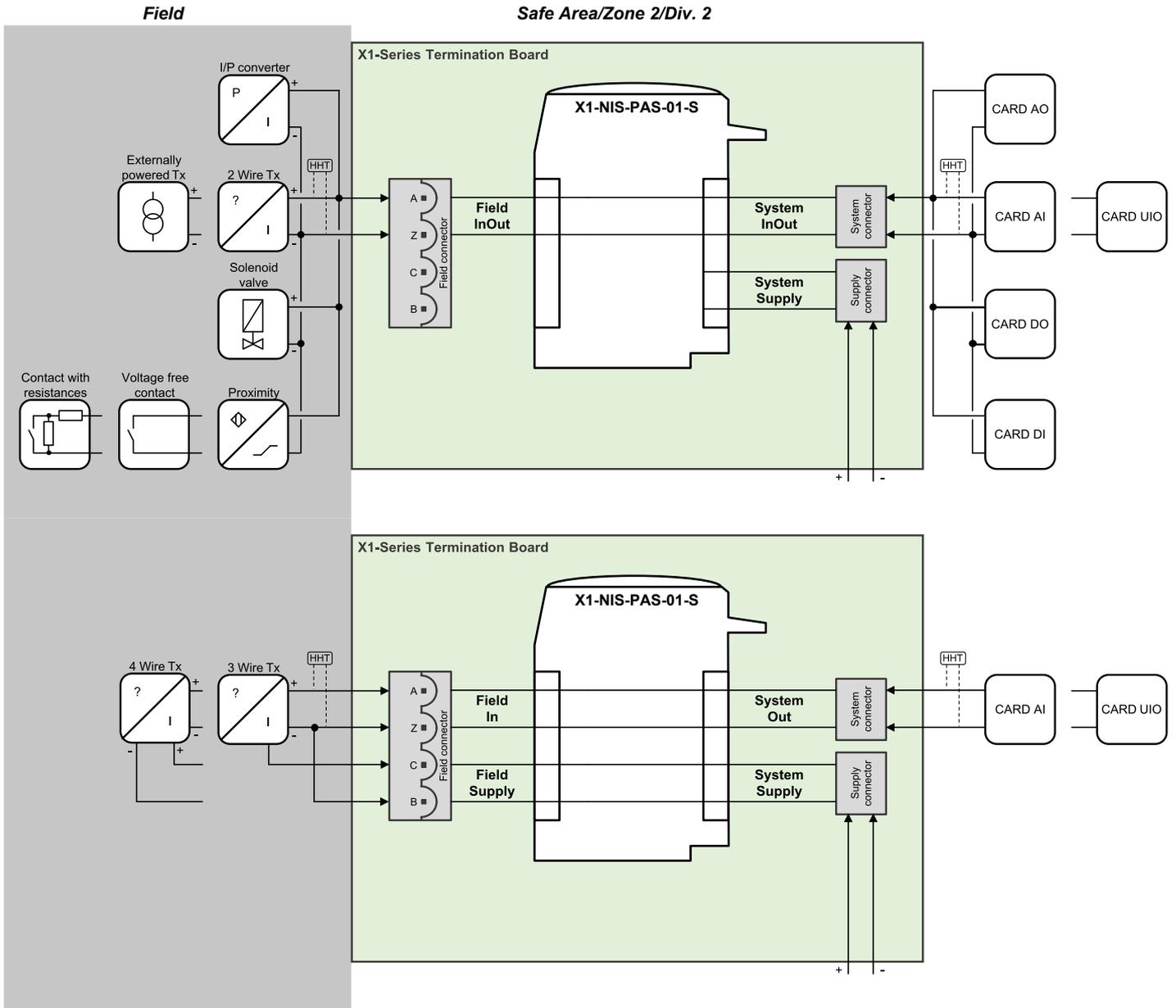
Mounting

On custom Termination Board.

Weight: about 25 g.

Dimensions: Width 10 mm, Depth 80 mm, Height 120 mm.

FUNCTION DIAGRAM



*Additional installation diagrams may be found in Instruction Manual.

Temp. TMP0056 Rev.1

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FSM SIL 3 Functional Safety Management Certification: GM International is certified to conform to IEC61508:2010 part 1 clauses 5-6 for safety related systems up to and included SIL3. In addition, GM International products have been granted I.S. certificates from the most credited Notified Bodies in the world.

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