

X1-TB-16-HON-02

SIL3 16-pos X1-Series Term Board for Safety Manager SC PUIO01 and PDIO01 Card

This Termination Board (X1-TB) provides direct connection between the I/O Card of the system and X1-Series modules. Galvanic isolation or conditioning is provided by Repeaters/Converters (X1-NIS). Compact board size allows mounting up to 3 x 8 X1-TB in each standard cabinet side.

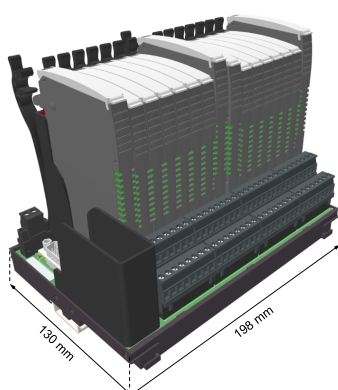
FEATURES

- SIL 3 / SC 3
- UIO Card board interface for up to 16 channels
- Lower cables installation and maintenance costs
- Power supplies fault monitoring
- Single loop disconnection to ease maintenance operations
- Three port isolation, Input/Output/Supply

SUPPORTED CARDS & MODULES

SYSTEM	I/O CARD	MODULES
Safety Manager SC	PUIO01	X1-NIS-UNI-01-S, X1-NIS-AI-01-S, X1-NIS-AI-02-S, X1-NIS-AO-01-S, X1-NIS-AO-02-S, X1-NIS-TMP-01-S
Safety Manager SC	PUIO01 PDIO01	X1-NIS-RLO/SS-01-S, X1-NIS-RLO/SS-02-S, X1-NIS-RLO/SS-03-S, X1-NIS-RLO/SS-04-S, X1-NIS-RLO/SS-05-S, X1-NIS-RLO/EM-01-S, X1-NIS-RLO/EM-02-S, X1-NIS-RLO/EM-03-S, X1-NIS-RLO/EM-04-S, X1-NIS-RLO/EM-05-S, X1-NIS-PAS-01-S, X1-NIS-PAS-03-S, X1-NIS-DI-03-S, X1-NIS-DI-04-S, X1-NIS-DO-01-S, X1-NIS-DO-02-S

OVERALL DIMENSIONS



TECHNICAL DATA

General

Number of positions/channels: 16

Power dissipation: 0 W (without modules).

Supply

24 Vdc nom (20 to 28.8 Vdc), reverse polarity protected.

Current consumption: 0 mA (without modules).

Max current consumption: 1.5 A (as total supply).

Connection: by polarized plug-in disconnect screw terminal blocks.

Field Interface

Connection: by polarized plug-in disconnect 8-position screw or push-in spring terminal blocks.

System interface

The system interface sinks current.

Connection: one SUB-D 37 poles male connector (requiring female mating connector).

Cable: FS-SICC5xxx.

Isolation

Field/System 2.5 kV; Field/Supply 2.5 kV; System/Supply 500 V; Field Ch/Ch 1.5 kV.

Environmental conditions

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

Max altitude: 2000 m a.s.l.

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

Mounting

On single DIN-rail 35 mm.

Weight: about 730 g, excluding modules.

Location: Safe Area.

Dimensions: Width 198 mm, Depth 130 mm, Height 140 mm.

ORDERING INFORMATION

Ordering codes

X1-TB-16-HON-02

Accessories

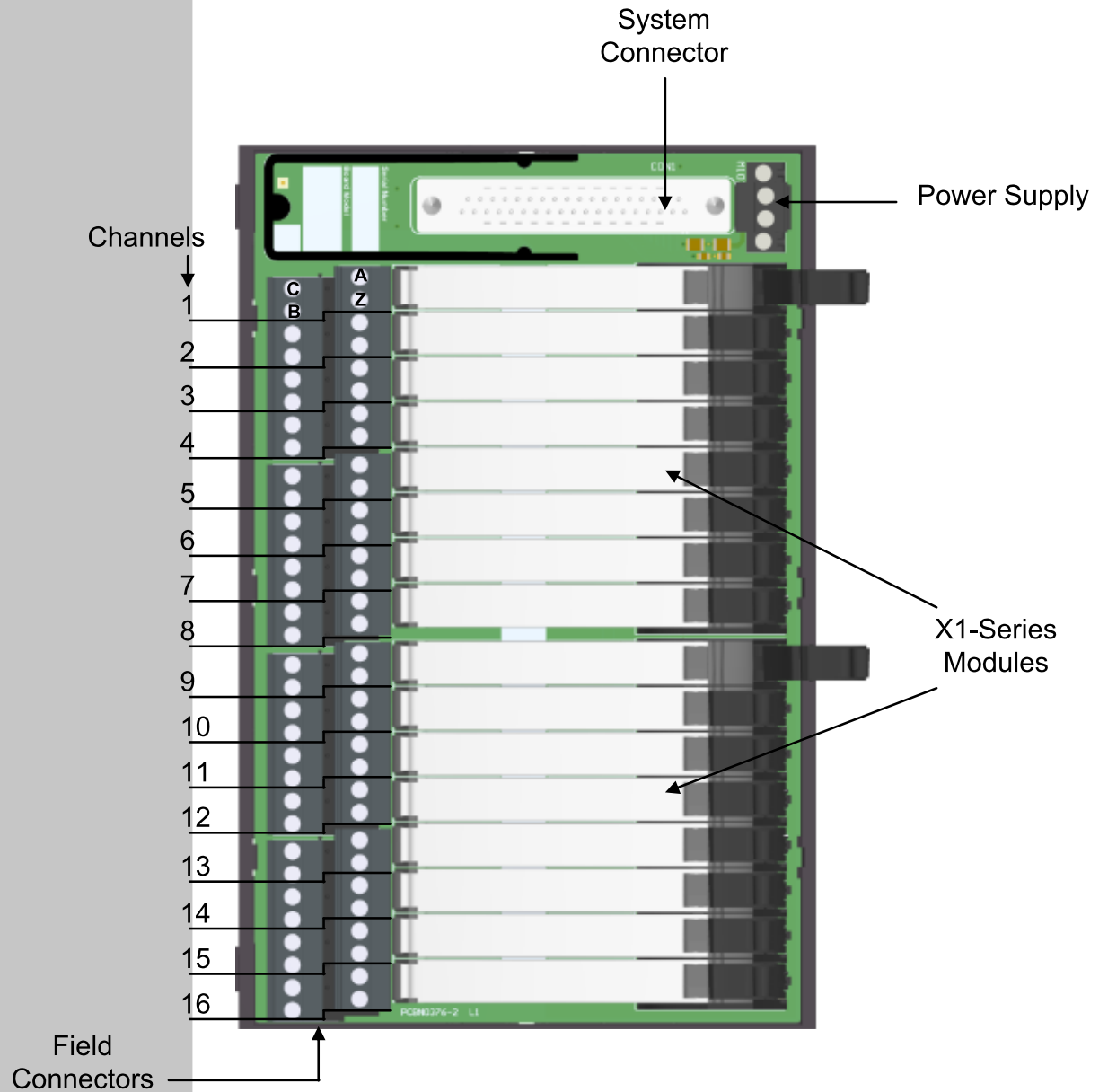
This X1-TB is already provided with screw terminal blocks. Other accessories, such as spring terminal blocks, can be ordered separately. See X1 series instruction manual.

Modules that require programming cannot be directly configured on X1-TB-16-HON-02, but they require a different board, which can host a Gateway X1-GW, such as X1-TB-08-GMI-01, X1-TB-16-HON-01, etc.

FUNCTION DIAGRAM

Safe Area

Safe Area



*Additional installation diagrams may be found in Instruction Manual.

Temp. TMP0056 Rev.1

www.gminternational.com



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.

Data specified in this document are merely descriptive of the products and should be integrated with relevant technical specifications. Our products are in constant development and the information presented herein refers to the time of document issue. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. Terms & Conditions can be found at our website. For more information refer to instruction manual.