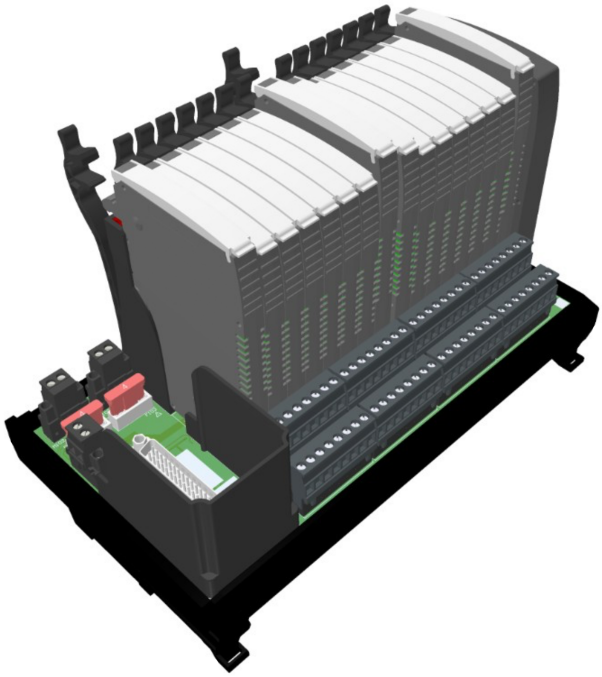
X1-TB-16-HON-02



INSTRUCTION MANUAL

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

Models: X1-TB-16-HON-02

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.

INTENDED USE

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.

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.
Wire cross-section: up to 2.5 mm² (13 AWG).
Torque: 0.5-0.6 Nm.

Field Interface

Connection: by polarized plug-in disconnect 8-position screw or push-in spring terminal blocks.
Wire cross-section: up to 2.5 mm² (13 AWG).
Torque: 0.5-0.6 Nm.
Max Voltage: 250 Vdc/Vac.

System interface

The system interface sinks current.
Connection: one SUB-D 37 poles male connector (requiring female mating connector).
Cable: FS-SICC5xxx.
Max current: 500 mA per channel.

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.

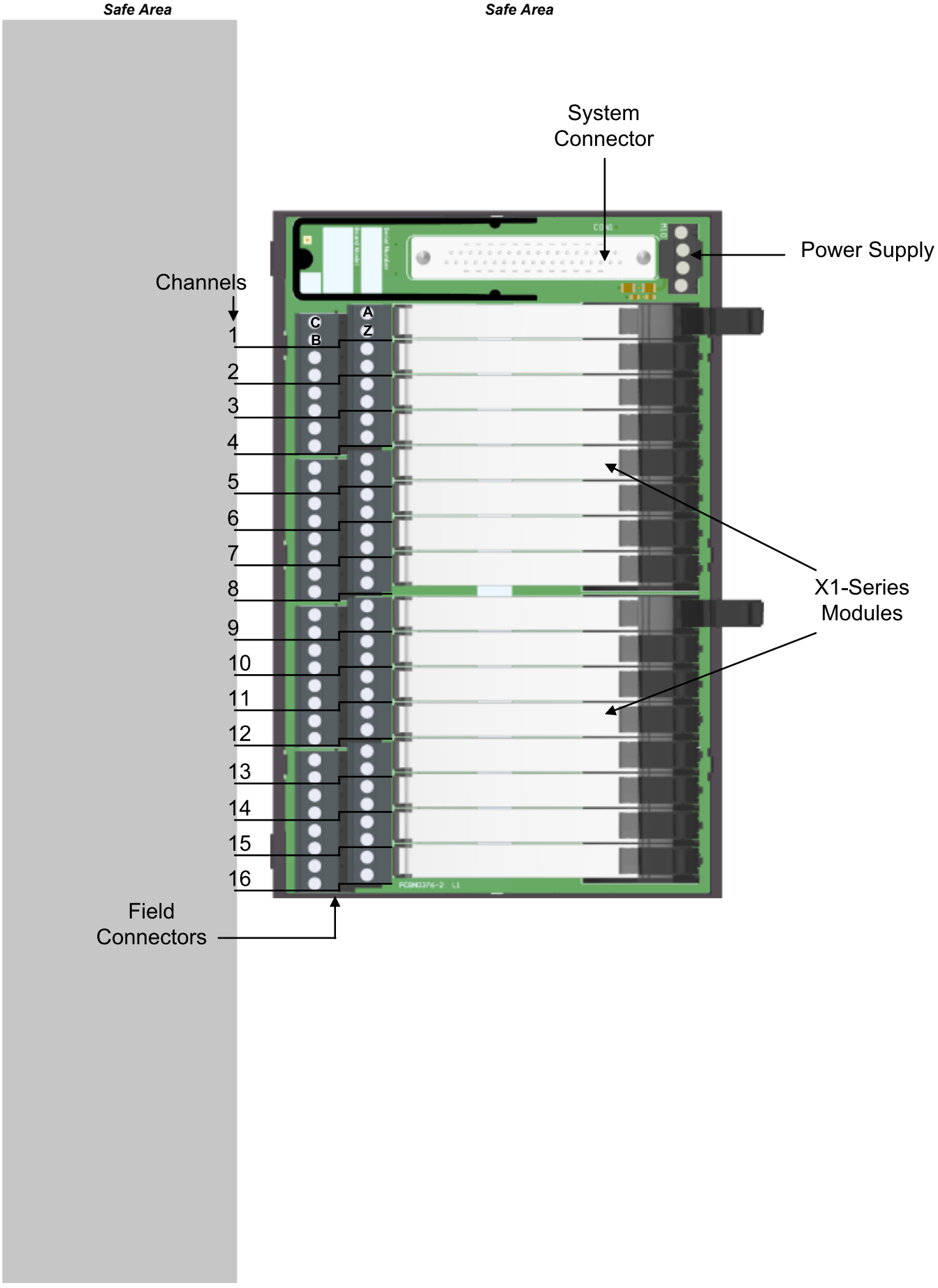
SUPPORTED CARDS & MODULES

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

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.

FUNCTION DIAGRAM



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.