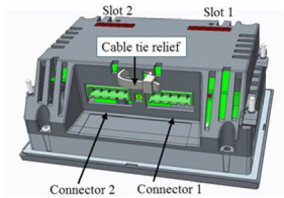


General

CAN bus termination

Both ends of the CAN bus must be terminated. This means that only 2 terminations must be switched to ON. You must not connect the CAN cable shield to CAN GND at terminal 1 or 6.

Cable tie relief



Use a cable tie to support cables and connectors that are fitted to the XDi. The cable tie is easily inserted in the two small slots above the connectors.

Wiring of AX1 analogue extension module

Voltage and current connections

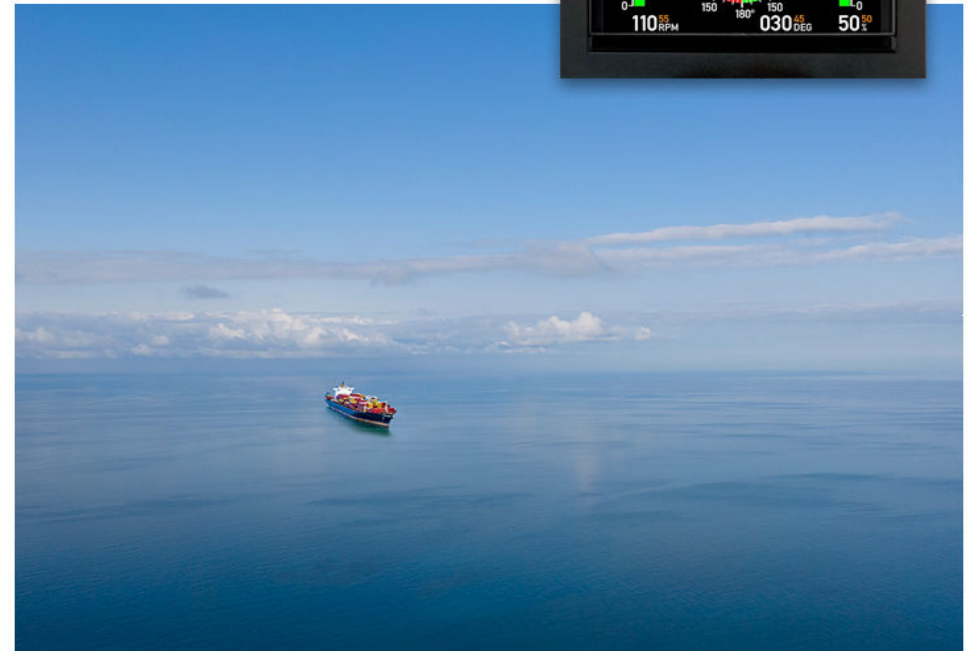
Terminal no.	Signal	Input
+ -		
11 1	Voltage input +/- 30 V	Input 1
9 10	Voltage input +/- 2 V	
	Current input +/- 2 mA	
9 8	Current input +/- 20 mA	Input 2
7 1	Voltage input +/- 30 V	
5 6	Voltage input +/- 2 V	
	Current input +/- 2 mA	Dimmer input
5 4	Current input +/- 20 mA	
2 1	Dimmer input 0 V to 30 V or used as +/- 30 V input	Reference in/out
3 1	REF output +7.5 V. Used as reference input if a +8 V to +30 V external voltage is connected.	

NOTE Terminal 1, (AGND) is common for input DIMM, REF, HV1+ HV2+. Only one voltage or current input can be used for each port.

XDi

Flexible display indicator

Quick guide



4189350046F

Wiring extension modules

For all extension modules, insert the extension module into Slot 1 or Slot 2 as described in the selected PP and/or VS profile. The module wiring must comply with the correct module wiring table. See tables below.

DX1 digital extension module: digital input and relay connections

Terminal no.	Marking	Function	Notes
1	OUT2 COM	Relay 2 contact, common	Relay 1 and Relay 2
2	OUT2 N.C	Relay 2 contact, normally closed	
3	OUT2 N.O	Relay 2 contact, normally open	
4	OUT1 COM	Relay 1 contact, common	
5	OUT1 N.C.	Relay 1 contact, normally closed	
6	OUT1 N.O	Relay 1 contact, normally open	
7	IN2 LOW	Digital input 2, negative (-)	Opto-insulated input
8	IN2 HIGH	Digital input 2, positive (+)	
9	NOT CONN	Terminal is not connected internally	Reserved for future use
10	IN1 LOW	Digital input 1, negative (-)	Opto-insulated input
11	IN1 HIGH	Digital input 2, positive (+)	

NX1 and NX2 NMEA serial communication extension modules

Terminal no.	Signal	NX1 Label	NX2 Label	Notes
1	COM 3 input NMEA0183	Do not connect	RX3 - B	Opto-insulated serial input RS-422 (IEC 61162-1)
2	COM 3 input NMEA0183	Do not connect	RX3 - A	
3	COM 1 input NMEA0183	Do not connect	RX1 - B	Opto-insulated serial input RS-422 (IEC 61162-1)
4	COM 1 input NMEA0183	Do not connect	RX1 - A	
5	Contact input 1	C-IN-1	C-IN-1	Push-button input 1 with internal +5 V pull-up
6	Contact input 2	C-IN-2	C-IN-2	Push-button input 1 with internal +5 V pull-up
7	COM 1 output NMEA0183	TX1-A	TX1-A	RS-422 differential output (IEC 61162-1)
8	COM 1 output NMEA0183	TX1-B	TX1-B	
9	Common GND	COMMON	COMMON	Common (Reference GND) for RS-485 COM port, COM 1 output and contact input
10	COM 2 input/output NMEA0183	Do not connect	RX/TX2 - B	RS-485 configured as input or output. This line is internally terminated with a switchable 120 Ω resistor.
11	COM 2 input/output NMEA0183	Do not connect	RX/TX2 - A	

Common (9) must NOT be connected to the cable shield. The cable shield must be connected to a good ground connection at only one point.

First-time powering up

On powering up for the first time, the XDi will take up to 45 seconds before it is operational. If the XDi has not been configured, a start-up wizard will guide you through the selection of unique CAN node ID, product profile (PP), virtual indicator (VI) and its VS profile. Parameters can be adjusted in the user and installation menus. Use the system supplier's documentation or download the *XDi Designer's Handbook* for details (at <https://www.deif.com/documentation/xdi/>).

Installation and set-up

Remove the front frame to get access to the fixing screws and set-up buttons. To remove the front frame, insert the tip of your finger behind the lower right-hand corner of the front frame and remove the frame.

Operate the unit using the four push-buttons. To access the different menus, simultaneously push two of the four buttons for 3-5 seconds. See table below.

Menu/Function	Button 1	Button 2	Button 3	Button 4	Notes
Surveyor info	•	•			
Master reset	•		•		
User menu	•			•	
Install menu		•	•		Can only be accessed from the user menu.

CANopen

When XDi is connected to a CAN bus, make sure to assign a unique node ID for each unit and write it on the white label on the front. Please refer to the system manufacturer's documentation or download the *XDi Designer's handbook* and the *XDi-net/CAN open reference manual*.

Wiring of XDi main unit

Connector/switch	Terminal no.	Signal	Marking	Notes
Connector 1	1	CAN 1	CAN 1 GND	Common (do not connect).
Connector 1	2	CAN 1	CAN 1 LOW	
Connector 1	3	CAN 1	CAN 1 HIGH	
Connector 1	4	Supply voltage	+24VDC	Standard power input 1
Connector 1	5	Supply voltage	0 V	
DIP switch 1	-	ON/OFF	CAN 1 term.	120 Ω termination. CAN bus termination switch set to OFF by default.
DIP switch 2	-	ON/OFF	CAN 2 term.	120 Ω termination. CAN bus termination switch set to OFF by default.
Connector 2	6	CAN 2	CAN 2 GND	Common (do not connect).
Connector 2	7	CAN 2	CAN 2 LOW	
Connector 2	8	CAN 2	CAN 2 HIGH	
Connector 2	9	Supply voltage	+24VDC	Standard power input 2
Connector 2	10	Supply voltage	0 V	