EXOR eSMART107 Essential Resistive Touch Controller 7 Inch Display Installation Guide

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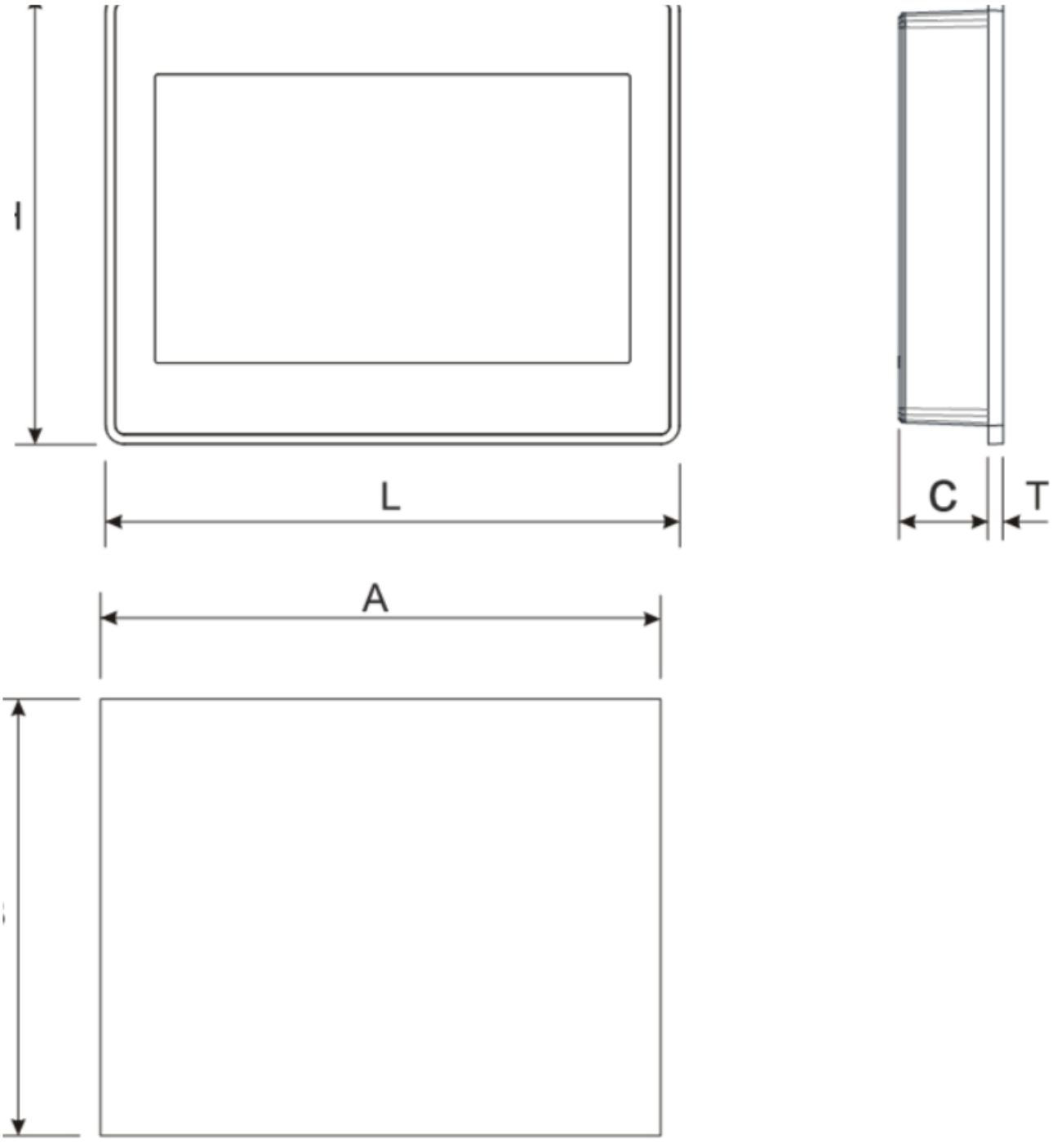
Contents

DIMENSION-CUT OUT



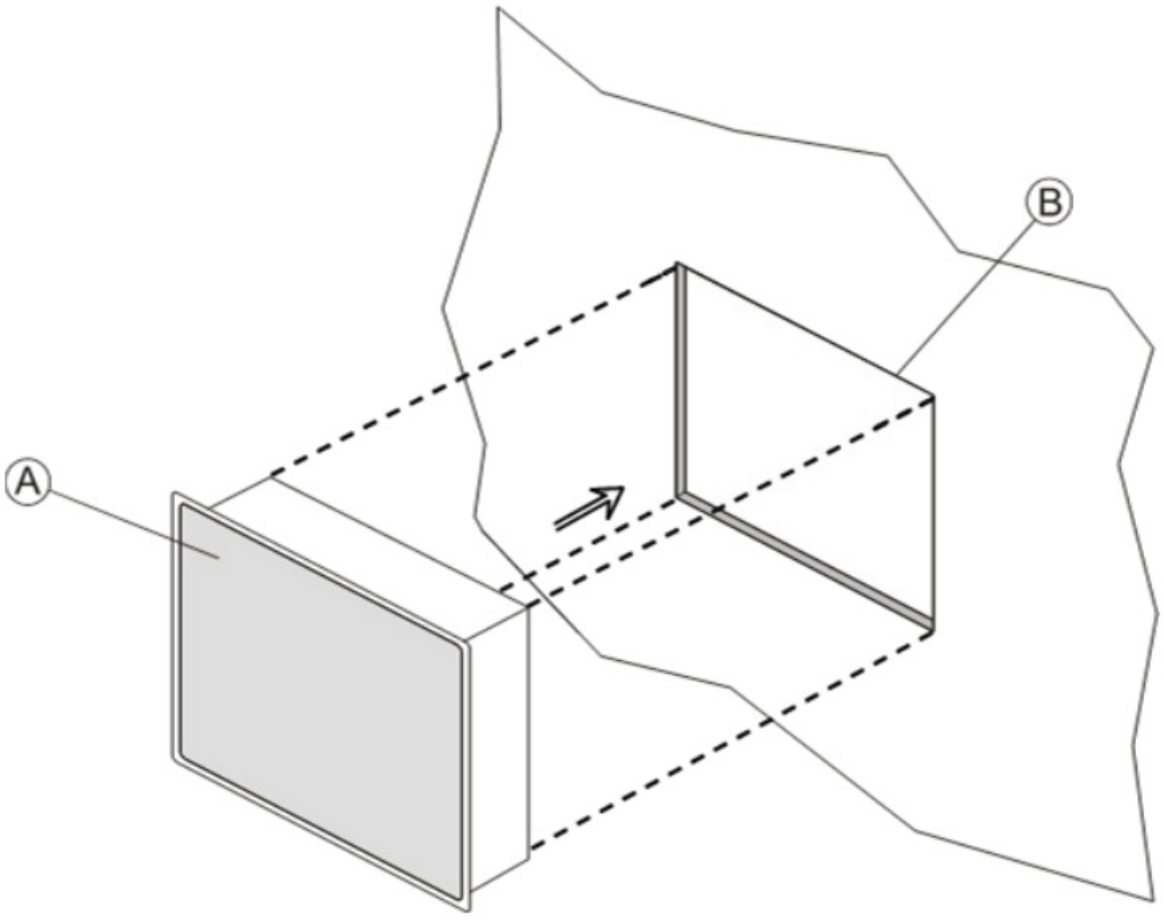
A	B
176mm/06.90”	136mm/05.35”

MODEL	H	L	C	T
eSMART107	147mm/05.79”	187mm/07.36”	29mm/01.14”	5mm/00.19”

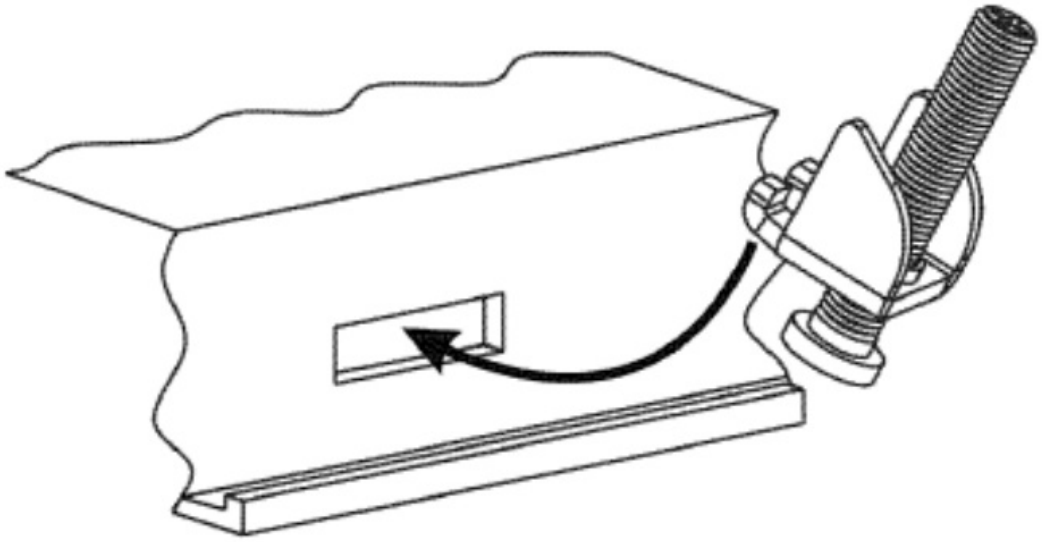
MODEL	CSD	CSD2
eSMART107	600mm/23.62”	450mm/17.71”

CSD = Minimum Compass Safe Distance of standard compass
CSD2 = Minimum Compass Safe Distance of steering compass, standby steering compass, emergency compass

FIXING BRACKET

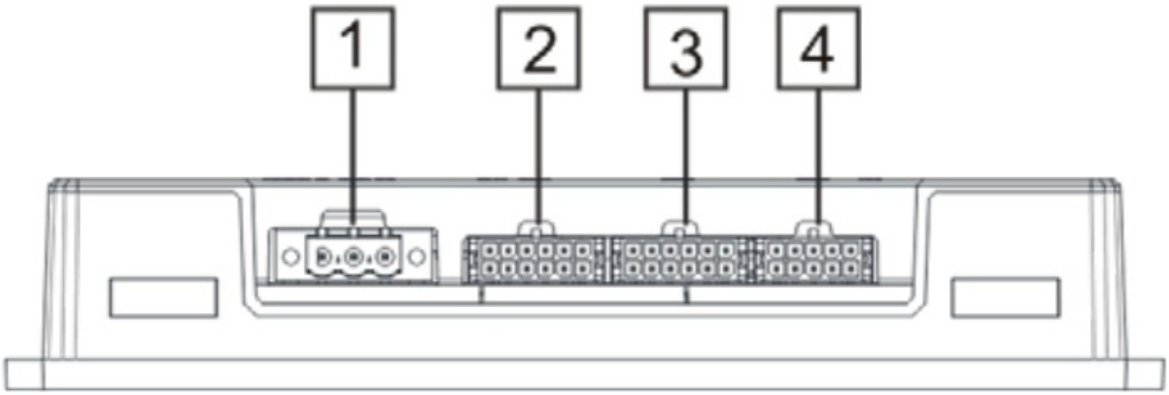


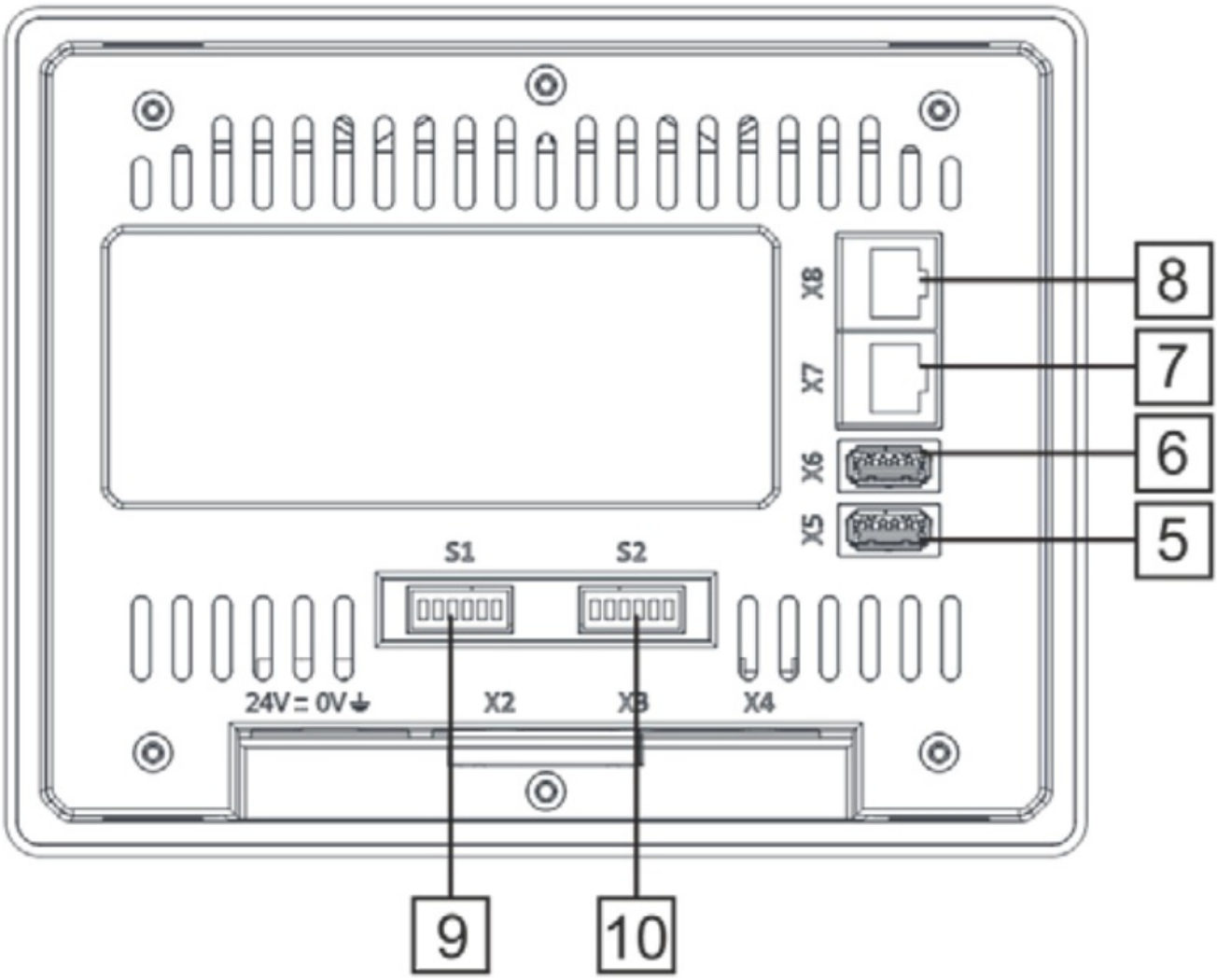
- A. eSMART107
- B. Installation cut-out



Tightening torque: 75 Ncm

REAR VIEW



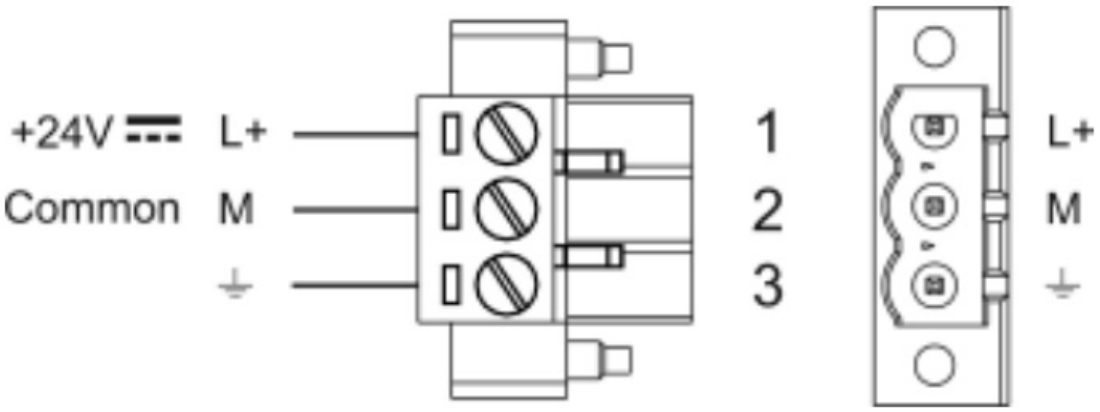


1	Power supply (11-30Vdc)	6	USB
2	RS422/485 + CAN (COM2 / CAN0)	7	ETH0 – 10/100Mbit/s
3	RS422/485 + CAN (COM3 / CAN1)	8	ETH1 – 10/100Mbit/s
4	RS232 + RS232 (COM1 / COM4)	9	RS485 + CAN port configuration
5	USB	10	RS485 + CAN port configuration

⚠ All ports are SELV (Safety Extra – Low Voltage) according European Standards and Class 2 according UL Standards

POWER SUPPLY

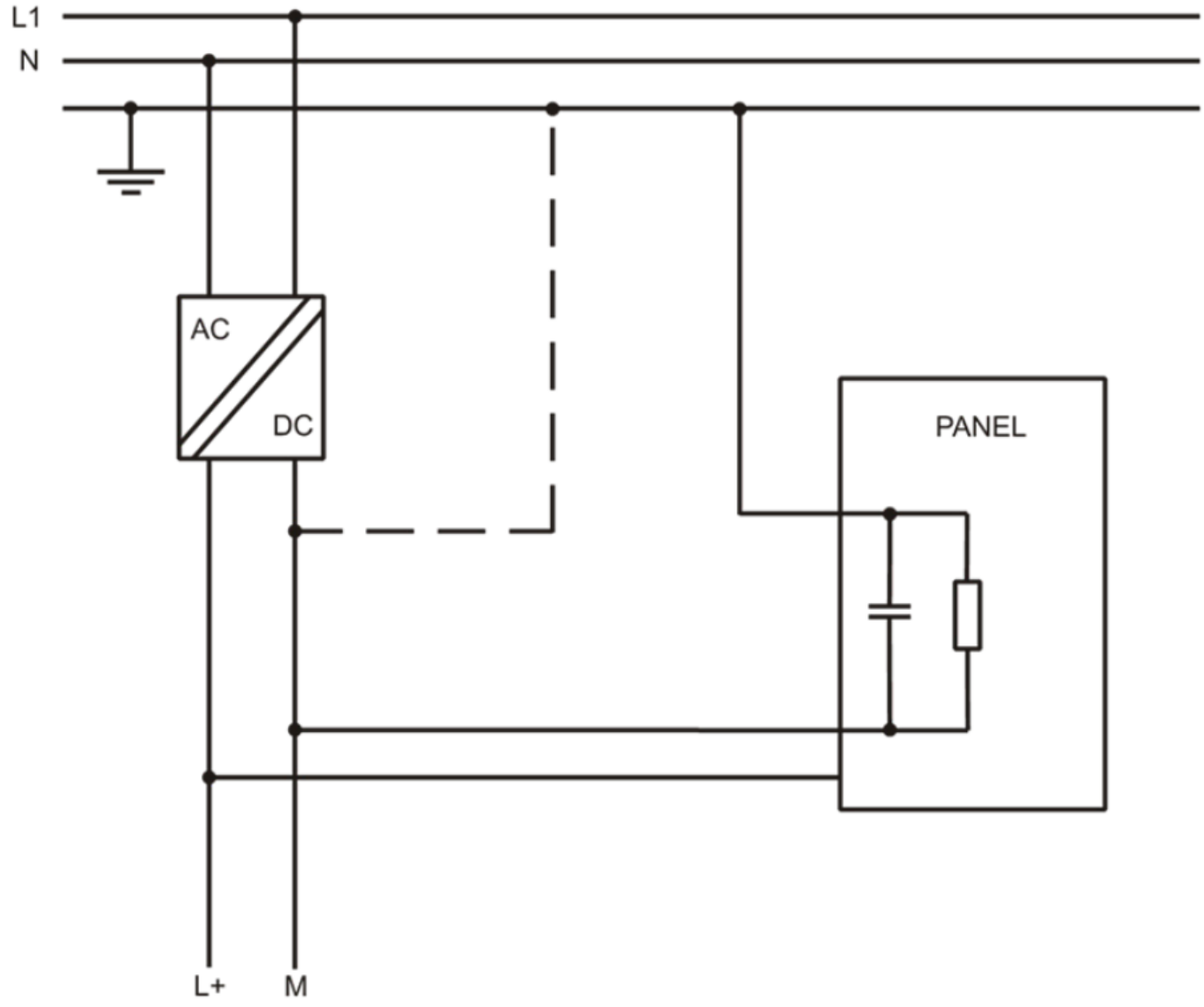
⚠ Extra low voltage power supply / Limited power source.



DC Power Connector – AWG24 wire size – R/C Terminal Blocks (XCFR2), Female pitch 5.08mm, torque 4.5 lb-in (50Ncm)

⚠ Don’t open the panel rear cover when the power supply is applied.

The unit must always be grounded to earth. Earth connection will have to be done using either the screw or the fast on terminal located near the power supply terminal block. Also connect to ground the terminal 3 on the power supply terminal block.



⚠ Ensure that the power supply has enough power capacity for the operation of the equipment.

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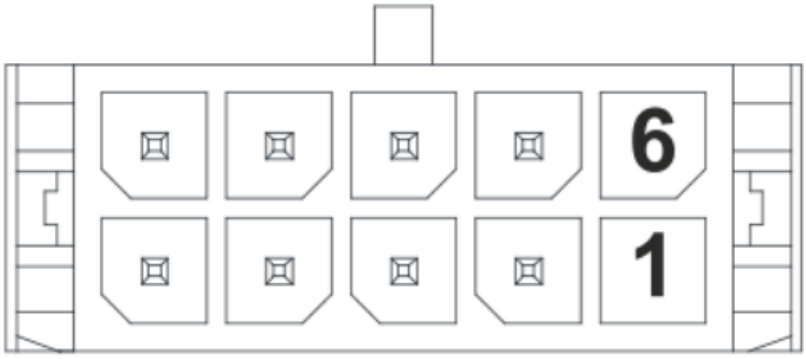
CONNECTIONS

The kit supplied with the panel contains the terminals and the contacts for wiring.

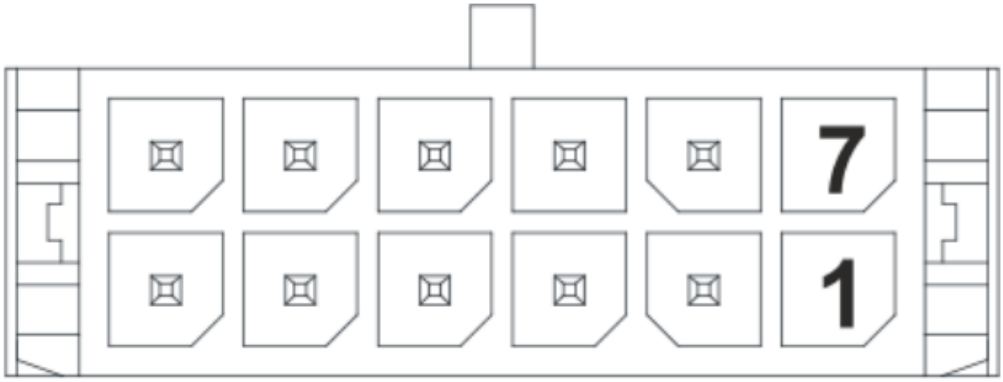
RS232 (ref. X4)



Reference	Pin	Description
X4 RS232 (COM1)	1	GND
	2	TxD
	3	RxD
	4	RTS
	5	CTS
X4 RS232 (COM4)	6	GND
	7	TxD
	8	RxD
	9	RTS
	10	CTS

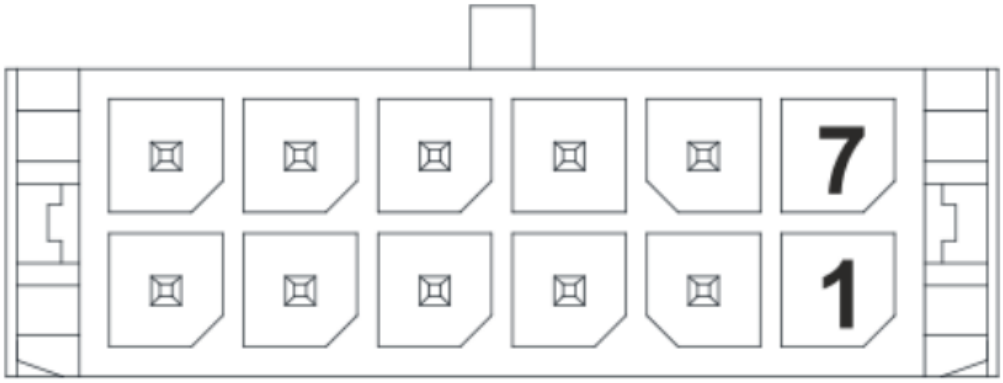
Terminal and contact 43025-1000 and 43030-0001 MOLEX

RS485 (ref. X2 - X3)



Reference	Pin	Description
X2 RS485 (COM2)	1	Used by CAN
	2	
	3	
	4	
	5	
	6	Reserved
	7	GND
	8	Reserved
	9	Y (TX+)
	10	Z (TX-)
	11	A (RX+)
	12	B (RX-)

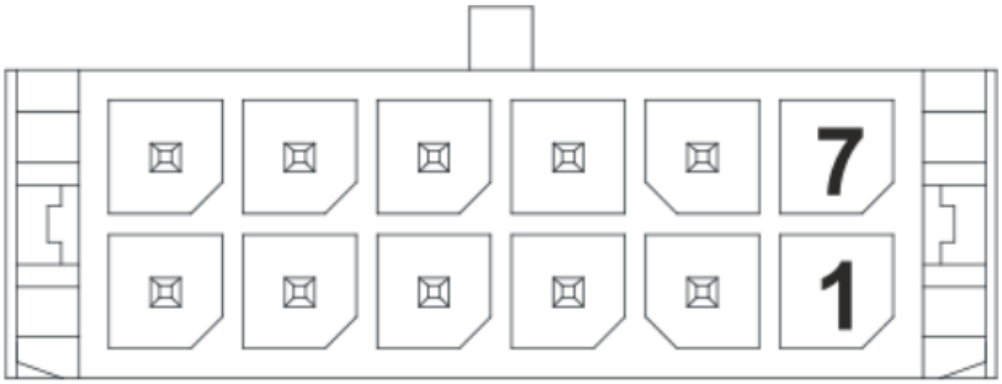
Terminal and contact 43025-1200 and 43030-0001 MOLEX



Reference	Pin	Description
X3 RS485 (COM3)	1	Used by CAN
	2	
	3	
	4	
	5	
	6	Reserved
	7	GND
	8	Reserved
	9	Y (TX+)
	10	Z (TX-)
	11	A (RX+)
	12	B (RX-)

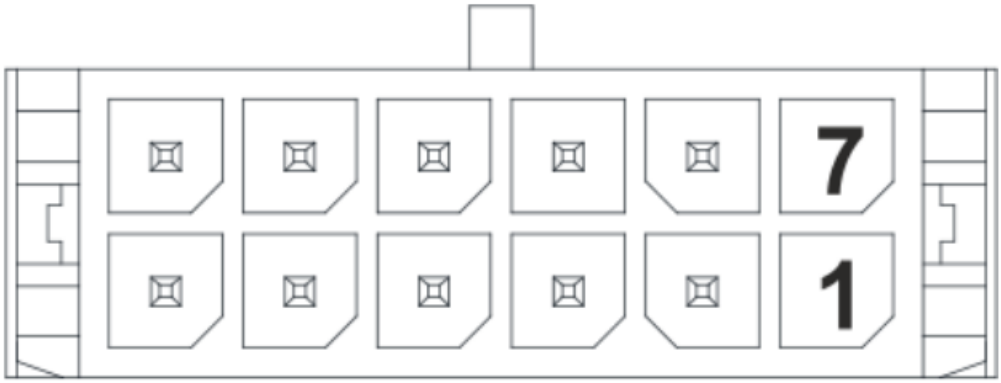
Terminal and contact 43025-1200 and 43030-0001 MOLEX

CAN (ref. X2 - X3)



Reference	Pin	Description
X2 CAN0	1	GND
	2	Reserved
	3	CAN-H
	4	CAN-L
	5	Reserved
	6	Used by RS485
	7	
	8	
	9	
	10	
	11	
	12	

Terminal and contact 43025-1200 and 43030-0001 MOLEX



Reference	Pin	Description
X3 CAN1	1	GND
	2	Reserved
	3	CAN-H
	4	CAN-L
	5	Reserved
	6	Used by RS485
	7	
	8	
	9	
	10	
	11	
	12	

Terminal and contact 43025-1200 and 43030-0001 MOLEX

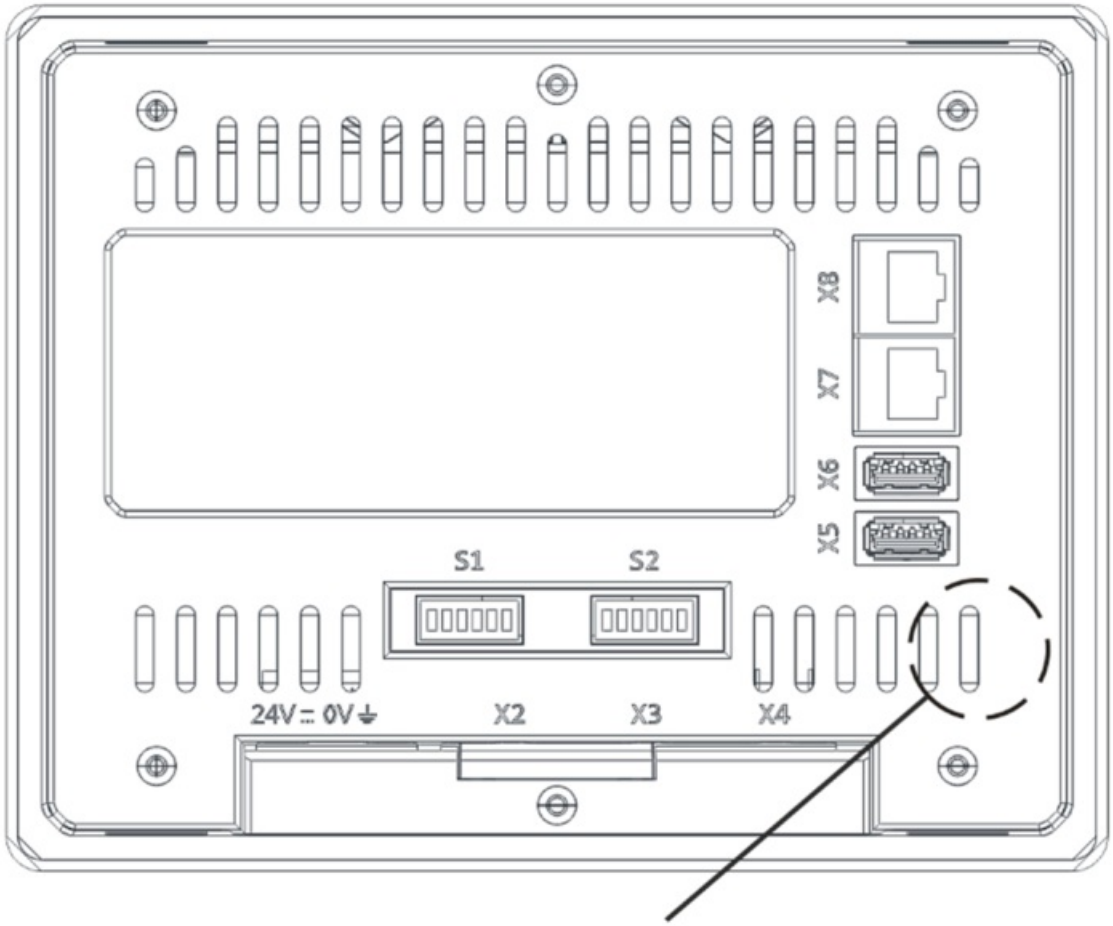
RS485 – CAN port configuration (ref. S1 – S2)

Reference	Pos	Description
S1	1	CAN0 termination
	2	CAN0 termination
	3	RS485 half duplex
	4	RS485 half duplex
	5	RS485 termination (COM2)
	6	RS485 termination (COM2)
S2	1	CAN1 termination
	2	CAN1 termination
	3	RS485 half duplex
	4	RS485 half duplex
	5	RS485 termination (COM3)
	6	RS485 termination (COM3)

For use in Pollution Degree 2 Environment, Maximum Surrounding Air Temperature 50°C

CAUTION: FOR USE IN A CONTROLLED ENVIRONMENT, REFER TO MANUAL FOR ENVIRONMENTAL CONDITIONS.

DISPOSE OF BATTERIES



⚠ Dispose of batteries according to local regulations.

⚠ This device cannot be disposed of as a domestic waste but according to WEEE European Directive 2012/19/EU

The products have been designed for use in an industrial environment in compliance with the 2014/30/EU directive

The products have been designed in compliance with:
EN 61000-6-4 EN 55011 Class A EN 61000-6-3 EN 55022 Class B
EN 61000-6-2 EN 61000-4-2 EN 61000-6-1 EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8

EN 60945

Software available in this product is based on OpenSource. Visit oss.exorint.net for more details.

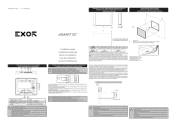
User Manual available on: **www.exorint.com**

Customer Service

MANESMA107U001 V.1.10 09.08.2022

Exor International S.p.A. – San Giovanni Lupatoto VR, Italy
www.exorint.com

Documents / Resources

	EXOR eSMART107 Essential Resistive Touch Controller 7 Inch Display [pdf] Installation Guide eSMART107 Essential Resistive Touch Controller 7 Inch Display, eSMART107, Essential Resistive Touch Controller 7 Inch Display, Touch Controller 7 Inch Display, Controller 7 Inch Display, 7 Inch Display

References

- EXOR INTERNATIONAL
- Exor Open Source Code Distribution Service
- EXOR International | Industrial Automation