

Touchscreen/ Panel PC

EL2 PPC12.1 1000



Touch Screen

Type	Projected capacitive
Operation	With the finger

Ethernet

Ethernet	10/100/1000 Mbit/s
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USB

In accordance with the „Universal Serial Bus Specification Rev. 2.0“

Min.: 1.5 Mbit/s
Max.: 480 Mbit/s
Max. output current: 100 mA per output

Field Bus Interfaces

Variable baud rates and data formats

X12 / X13 CAN	In accordance with ISO 11898 Galvanically Isolated
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Serial Interfaces

Variable baud rates and data formats

X14 RS-422 / RS-485	In accordance with DIN 66259-4 Transmission length: 0 - 1200 m, twisted pair wire, shielded, galvanically isolated
X15 RS-232	In accordance with DIN 66259 T1, CCITT V.28 Transmission length: 0 - 15 m, conductors layered in strands, shielded, galvanically isolated

Central Processing Unit

Central processing unit	Intel® Atom™ E3845
Clock frequency	1.91 GHz quad-core

Connection System

Male connector strip Phoenix MINI-COMBICON, 3 pin (Art.-No. 1847068)

RJ45 male connector

USB male connector type A

Electrical Data

Supply voltage	24 V DC (SELV / PELV in accordance with DIN EN 61131)
Residual ripple	10 % maximum
Minimum voltage	18 V
Maximum voltage	30 V
Power consumption (typical at 24 V)	1.2 A
Connected load	28.8 W
Fuse	Semiconductor fuse, self-resetting
Protection against polarity reversal	Integrated

Environmental Conditions

Temperature during operation	0 °C to 45 °C (32 °F to 113 °F)
Temperature during storage, transport	- 25 °C to + 70 °C (-13°F to + 158°F)
Relative air humidity for operation and storage	20 % to 85 %, no condensation
Application area	Degree of pollution 2, overvoltage category III No direct solar radiation

Standards and Guidelines

Interference immunity	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-6-2
Emitted interference	EN 61000-6-4 EN 50011 limit class value A EN 50022 limit class value A
Equipment requirements	EN 61131
Storage and transportation	EN 61131 part 2
Power supply	EN 61131 part 2
Electromagnetic compatibility	2004/108/EG
Degree of protection	EN 60529
Impact load, shocks	EN 60068 part 2-27
Sinusoidal vibrations	EN 60068 part 2-6
Corrosion protection	IEC 60068



NOTICE: Radio Interference

This is a class A device. This device may cause radio interference in residential areas. In this case, the user may be required to introduce appropriate countermeasures, and to bear the cost of same.

Approvals

CE

Display

Size (diagonal) in cm (inch)	30.73 (12.1)
Type	TFT (color)
Resolution (pixels)	1280 x 800
Colors	16.77 million
Viewing angle (left / right / up / down) in °	88 / 88 / 88 / 88
Half-life backlighting	50,000 h
Brightness in cd/m ²	320
Display area (H x W) in mm (Inch)	163.2 x 261.1 (6.425 x 10.28)

Memory

RAM	2 GByte / 4 GByte DDR3
Mass storage	8 GByte / 16 GByte / 32 GByte / 64 GByte Flash or 240 GByte SSD (MLC)
SD/SDHC interface	2 GByte / 32 GByte maximum

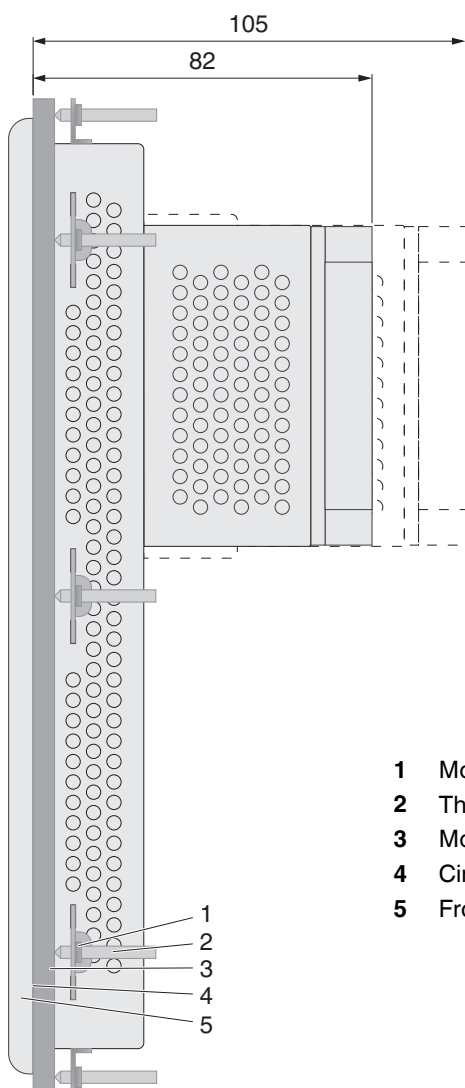
Front Panel and Enclosure

Enclosure	Steel sheet, aluminium-zinc-coated
Front panel material	Aluminium, brushed, anodized natural finish
Glass substrate	Anti glare; gloss value (at 60°): 85 (+/- 5) Impact resistance: IK9
Front panel (H x W x D) in mm (Inch)	234 x 336 x 6 (9.212 x 13.228 x 0.236)
Seal	Circumferential rubber seal on the rear
Mounting cutout (H x W) in mm (Inch)	224 x 326 (8.818 x 12.834)
Mounting brackets	12
Mounting depth in mm (Inch) - (standard / field bus)	About 82 (3.228) / 105 (4.133)
Degree of protection	Front: IP65 Rear: IP20
Total weight	About 3100 g

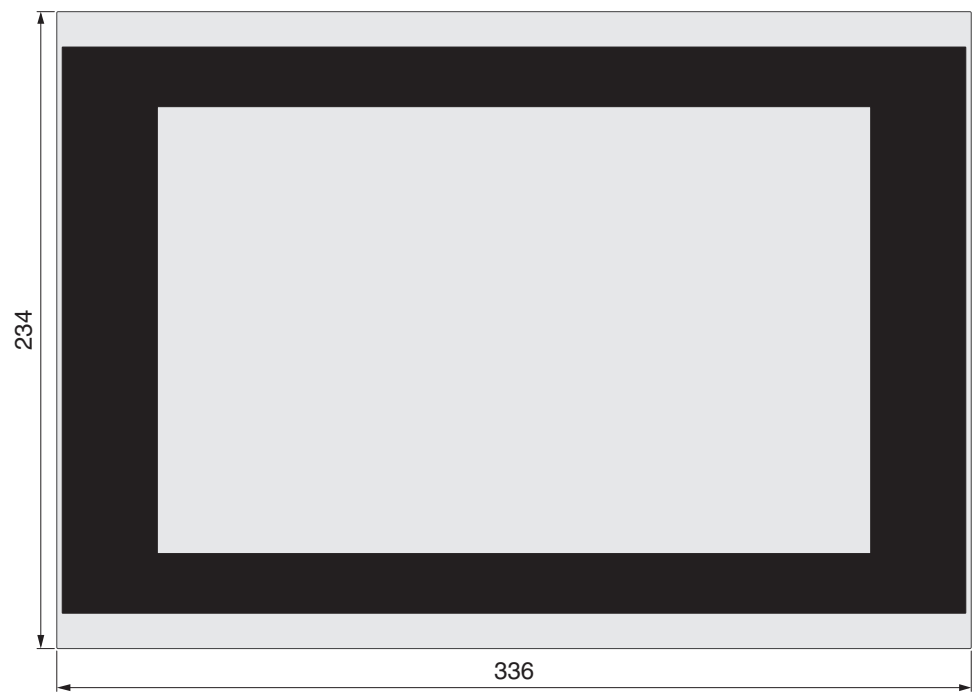
Pin assignment supply voltage

Pin	Designation	Function
1		Noiseless ground / functional earth ground (FE)
2	0 V	Supply voltage 0 V (GND)
3	--- 24 V	Supply voltage --- 24 V

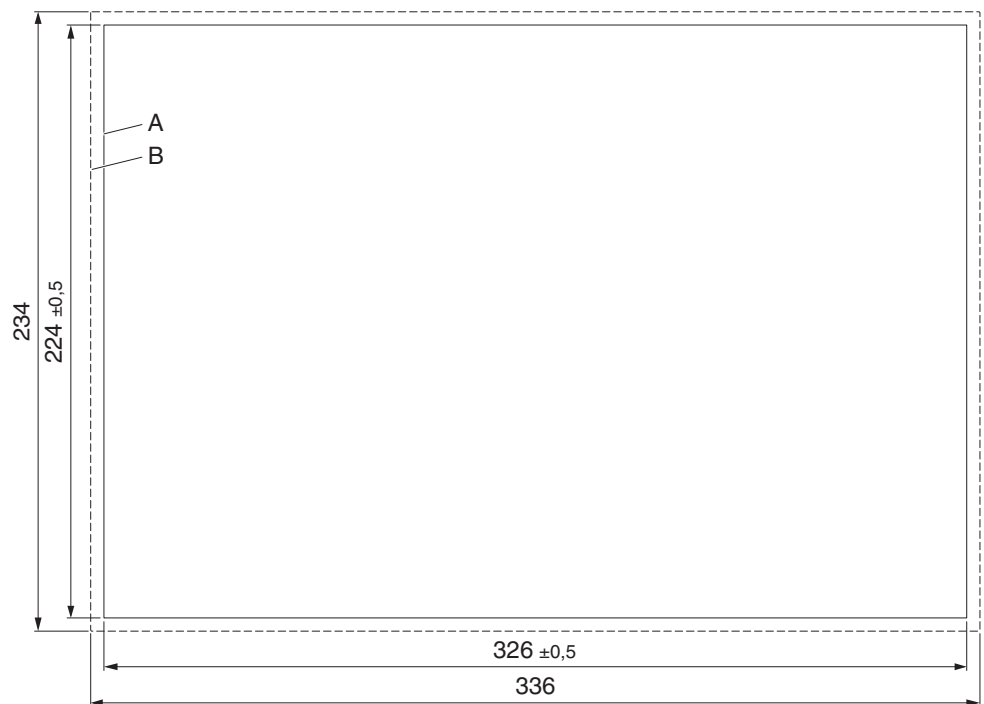
Dimensions and drawings



- 1 Mounting Bracket
- 2 Threaded Pin
- 3 Mounting Surface Thickness 1 mm to 6 mm
- 4 Circumferential Seal
- 5 Front Panel



Front panel (dimensions in mm)



Mounting cutout (dimensions in mm)

- A** Mounting Cutout
- B** Front Panel