Data sheet EA PLC Series

FEATURES

- Core with 2.8" Color Display including Touchpanel
- Core is designed for DIN rail mounting
- 8 Inputs, 4-20mA, 0-10V, 4 Relay outputs
- Space saving in the control cabinet due to narrow design with 5 TE
- Satellite Displays in many different sizes from 1.5" to 10.1" and different mounting options
- Interconnection via Wifi / WLAN, Ethernet and RS-485
- Built-in RTC Clock
- Quick and easy commissioning thanks to tool-free push-in connection technology at a 45° angle

ORDERING CODE

Core PLC for DIN rail mount, 2.8" with Touchpanel	**EA PLCC28-D8I4R4AR**
Satellite Display Wall mount, 2.8" with Touchpanel	**EA PLCS28-DS**
Satellite Display Wall mount, 4.3" with Touchpanel	**EA PLCS43-DS**
Satellite Display Wall mount, 7.0" with Touchpanel	**EA PLCS70-DS**

ACCESSORIES

Mounting clips (2 pcs.)	**EA 00C1-1KNS**
24V= power supply unit 110/230V~	**EA PS24V-18W**
Y cable for power supply (for 1-2 displays)	**EA KH21-102Y**
USB <-> RS-485 Adaptor	**EA 9790-USB485**

EA PLC Series

Measure, monitor and visualize. The new PLC series expands the classic small control unit in control cabinet with an integrated color display inclusive touch. In addition, this solution enables visualization on up to 50 satellite displays. There, measured values can be displayed and settings can be made by touch. Thanks to edge computing, even complex and visually appealing screen layouts can be easily implemented.

WiFi, RS-485, Ethernet

Program your control tasks via USB and connect the desired satellite displays via RS-485 or wirelessly via WiFi/WLAN.
The basic version of the PLC-Core for DIN rail mounting offers 8 digital inputs, 4 relay outputs, 4 analog inputs (0-10V or 4-20mA) and one RS-232. Including Real-Time-Clock. The supply voltage is 12-24V.
In the control unit (core) there is a high quality TFT display with touch panel already to monitor the most important parameters.

Arbitrarily expandable

Different requirements need different displays. Choose from 7 different sizes - as a recessed solution, for wall mounting or as a U-plaster solution. All displays were developed in Germany. The support includes at any time a direct contact person from the development incl. assistance in programming.

	Core 2.8“	1.5“	2“	2.8“	3.5“	4.3“	5“
Resolution	320x240	240x240	320x240	320x240	480x320	480x272	800x4
Dimension		44x42	65x43	84x58	100x65	114x84	136x9
DIN-rail	yes						
U-Plaster mount							
Wallmount				yes		yes	
Integration		planned	planned	yes	yes	yes	planne
I/O	8x In 4x Relay 2x 4-20mA 2x 0..10V 1x RS-232						
Temp. Range	-10..+50						
Supply Voltage	12-24V=						
Display	IPS with PCAP, optically bonded						IPS with P

Individually networked

All process parameters are automatically synchronized with the satellite displays. This means that displaying current values can be flexibly implemented on one display, as well as individual settings for process parameters at another location. Each display follows its individual purpose: for service, work preparation, monitoring or management. Satellite displays are available in different sizes and designs.
The Windows Quick Programmer Tool
All touch and display functions as well as animations are freely programmable via the free Windows tool "PLCDesigner". Using a graphical WYSIWYG editor, individual pages can be created: here a background, there a logo and text, further a measured value, a slider, etc. The tool also includes a simulator, with which the result is immediately visible on the PC; including functionality via touch and the inputs and outputs on the core.

Wall mounting, DIN rail, Panel Mounting, flush-mounting

Different locations require different housings. Therefore DISPLAY VISIONS offers all sizes as a built-in solution for seamless integration into your device. Alternatively, solutions with a housing for surface mounting are also planned. For the small 1.5" display a flush mounting variant is also planned (U-plaster).
In each case, the front is made of scratch-resistant glass. Thanks to a touch-sensitive surface, direct and intuitive interactions are possible. The following formats are planned: 2", 2.8", 3.5", 4.3", 5", 7", 10.1". All brilliant displays with 1,000 cd/m² in outstanding IPS technology for an all-round viewing angle and stable colors.

Accessories

There are some accessories available to give you an easy start.

Power supply

EA PS24V-18W: The 24V plug-in power supply provides stable voltage. It comes with a plug for Europe, USA, Australia and UK. On DC site there's a 2.1mm hollow plug, cable is about 1m long. It got enough power to supply the Core plus 2-3 Satellite Displays.

Y cable:

EA KH21-102Y: This cable matches to the power supply above. It has 2 open ends to supply up to 2 Satellite Displays or 1 Core and 1 Satellite Display directly.

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USB - RS485 interface

EA 9790-USB485: With this USB plug it becomes easy to connect the Core or Satellite Display to any PC for project update.

Nomenclature

Example

EA PLCC28-D8I4R4AR	// 2.8“ Display, 24V, 4 Relay, 8 Input, 4 Analogue input, Top hat rail
EA PLCS43-DS	// 4.3“ Display, 24V, Satellite, Case for wall mount

Description

EA PLC	**C**	**28**	**-**	**D**	**8I**	**4R**	**4A**	**R**
Brand	Type	Size	-	Power	In/Out			Mounting

Brand

"EA PLC" series is a DISPLAY VISIONS module family for compact PLC. It includes Core PLC, Extensions for top hat rail mounting and Satellite Displays in various sizes.

Type

-C (Core) -> EA PLCC..
-S (Satellite)
-E (Extension)

Size

-15 (1.5")
-20 (2”)
-28 (2,8”) -> EA PLCC28…
-35 (3,5”)

-43 (4,3")
-50 (5")
-57 (5,7")
-70 (7")
-101 (10,1")

Power

-D (24V DC) -> EA PLCC28-D…
-A (230V AC)

In/Out

-8I4O (8 inputs, 4 outputs)
-8I4R (8 inputs, 4 relay outputs)
-8O4I3A (8 outputs, 4 inputs, 3 analogue inputs)
-4A (4 analogue inputs)

Mounting

-R (top hat rail / DIN rail)
-S (Wall mount, black)
-W (Wall mount, white)
-G (Wall Mount, gray)
-M (Wall Mount, metall)
-N (none)
-U (Under plaster)
-H (Hand held)

Interconnection

This small PLC EA PLCC28 is able to drive many external displays, the so called Satellite Displays. All important measuring values and system data are shared automatically.
There are 3 ways to connect Satellite Displays and Core PLC: RS-485, WiFi and LAN. The Core supports RS-485 and WiFi or RS-485 and LAN. Note that WiFi and LAN cannot be used simultanously.

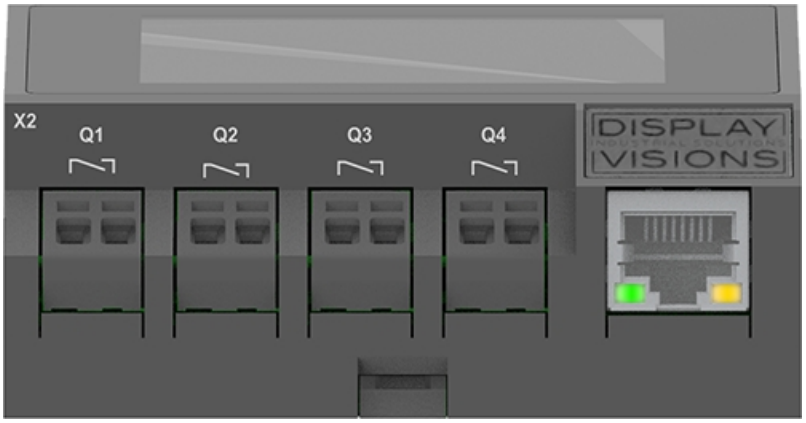
Interconnection by WiFi / WLAN

If distance between is not so far (<10m), Satellite Display and Core may communicate via WiFi / WLAN. Please note that topology is star:
For Satellite Display set connection in PLCdesigner to "WiFi".
Make sure that the same WiFi network is set in the Core project.

So distance from Core to Satellite Display may not exceed 10m. Alternatively WiFi signal is amplified by repeater.

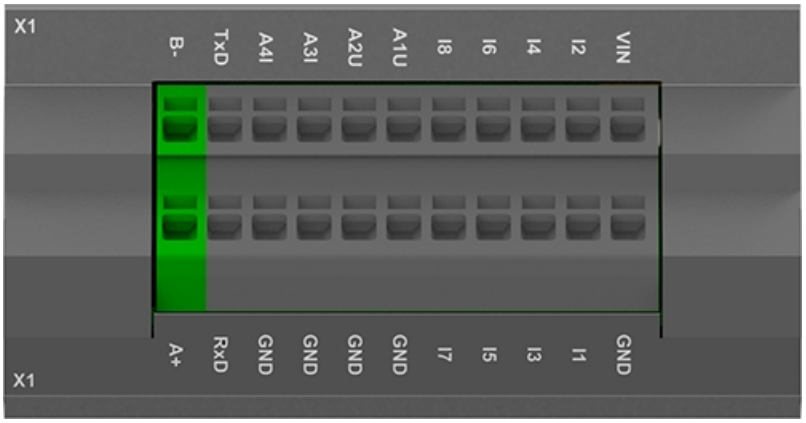
Interconnection by LAN

A fast and safe way to connect Satellite Displays with PLC Core is LAN connection
For Satellite Display set connection in PLCdesigner to "LAN".



Interconnection by RS-485

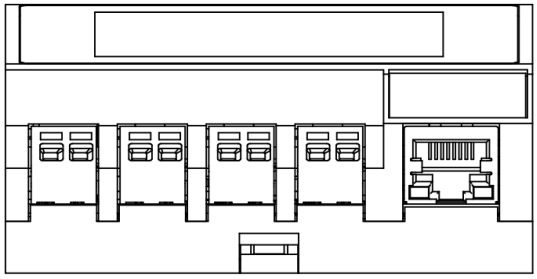
PLC Core and Satellite Displays may also be connected by RS-485, a simple 2-wire installation. RS-485 is bus topology.
For Satellite Display connection in PLCdesigner is set to "RS-485". Refresh time for shared register is 1 second. That's a bit slower than via LAN and WiFi.

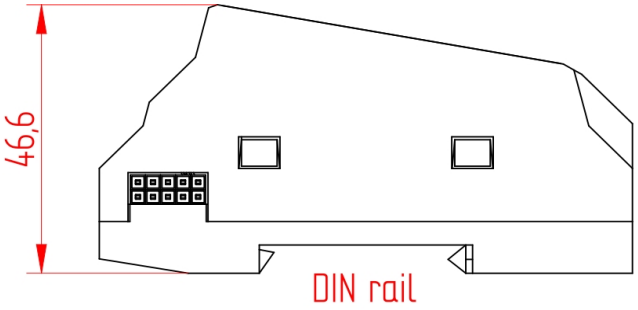


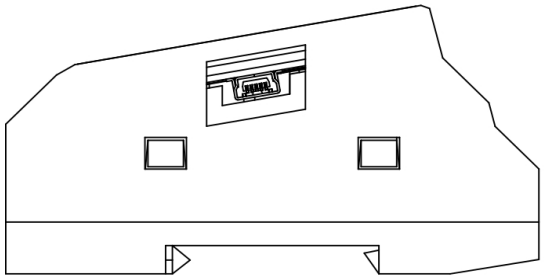
Dimension

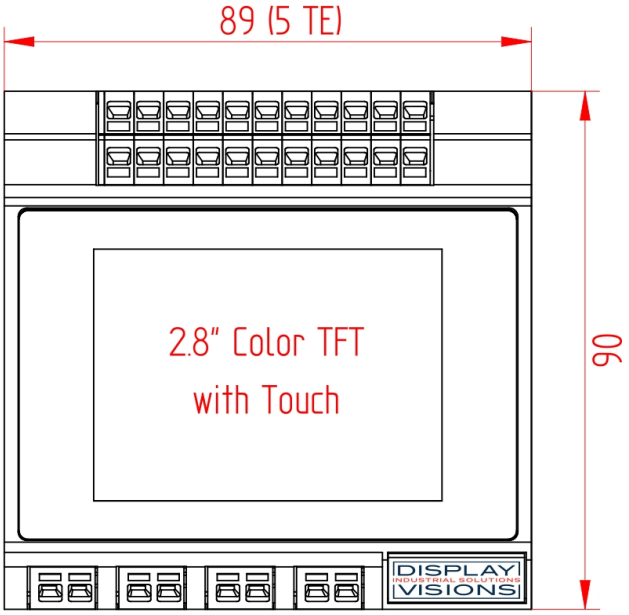
Following pages show drawings with dimensions noted.

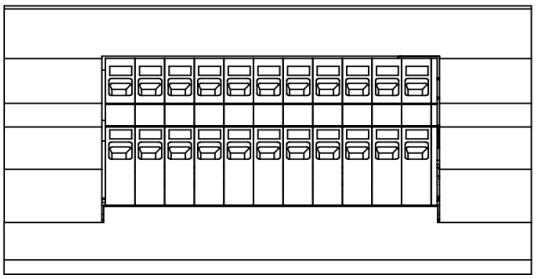
EA PLCC28
Core for DIN rail mounting





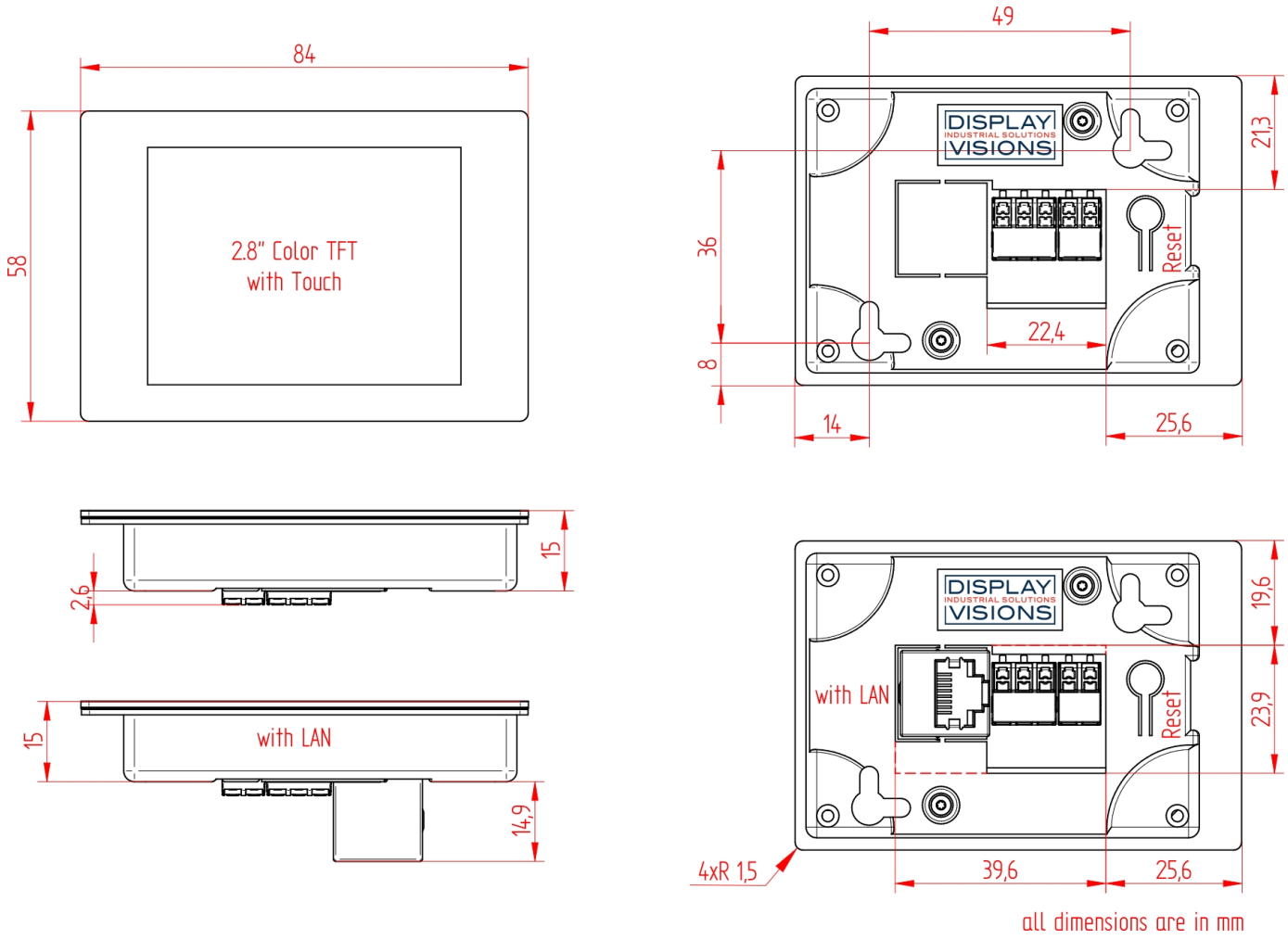






all dimension are in mm

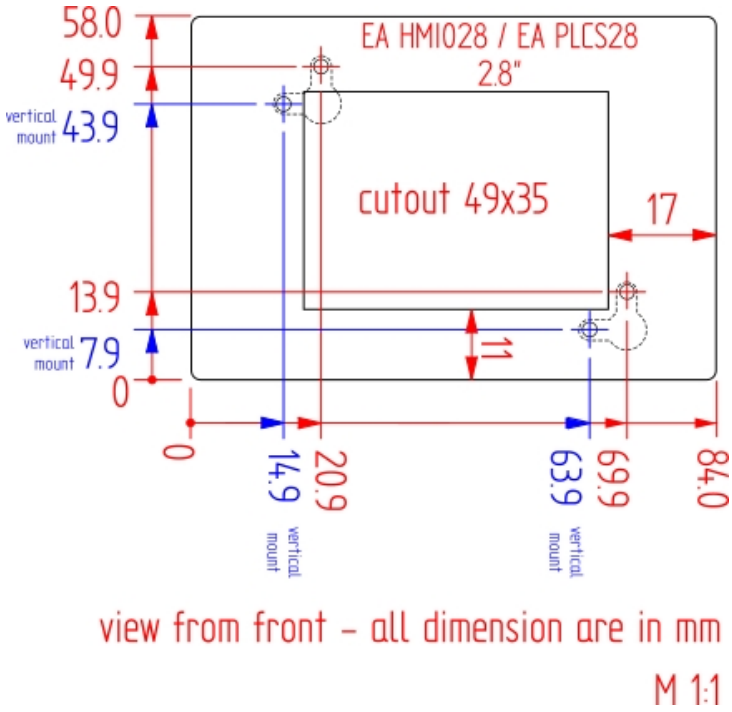
EA PLCS28
Satellite Display with Touch 2.8"



Wall Mount

The EA PLCS28-DS is prepared for easy wall mount. Simply fixed by 2 screws 3x16 DIN 7981 or similar. Note that you need a cutout of 49x35 mm for cable and RJ45 connector.
Display may be mounted horizontally (landscape mode) or vertically (portrait mode). See dimensions for vertical mount in blue color.
Please find here a drilling template as a pdf to print out.

This is view from front side:

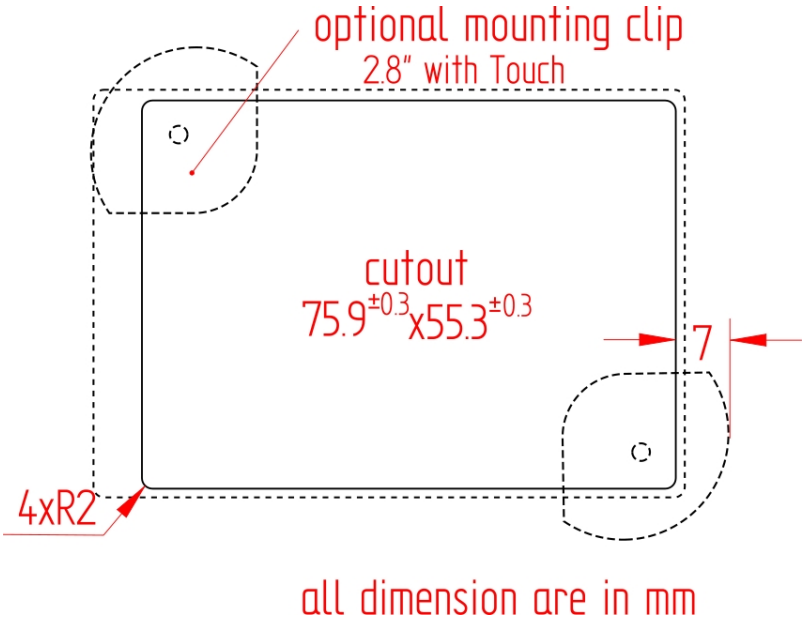


Panel Mount

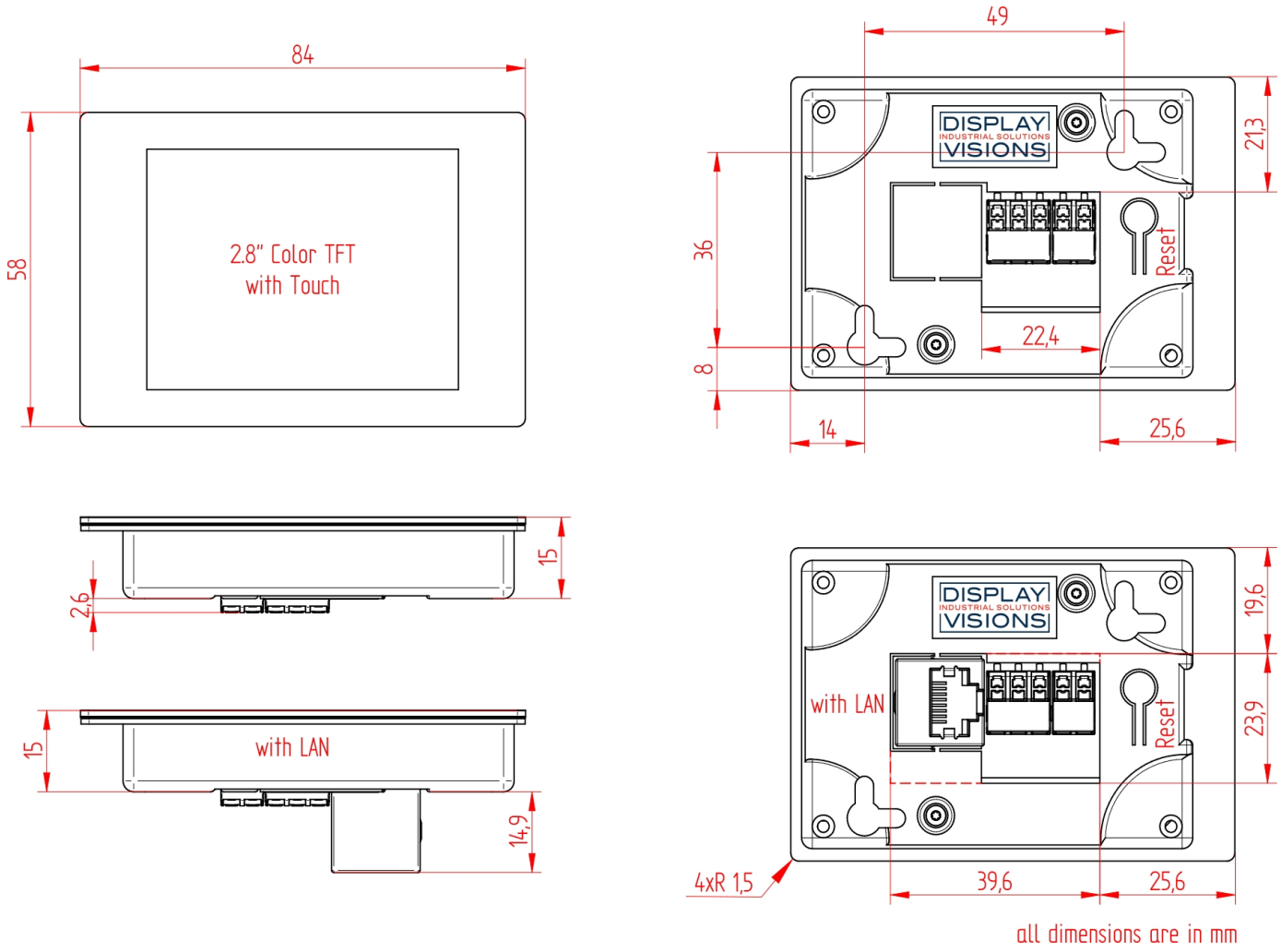
The EA PLCS28-DS can be easily installed in any front panel. It's made for panel thickness from 1.0mm to 6.0mm and will be fixed by 2 or 4 mounting clips EA 00C1-1KNS (please order separately). Assembly is done by screws.

Panel thickness	Recommended screws	
1.0~4.0 mm	2.5x10	Do not use screw longer than 10mm. Otherwise display could be damaged!
3.0~6.0 mm	2.5x12	

Recommended cutout is 75.9x55.3mm. The dashed area represents the display outline and the mounting clips.
This is view from front:


optional mounting clip
2.8" with Touch
cutout
75.9±0.3x55.3±0.3
7
4xR2
all dimension are in mm

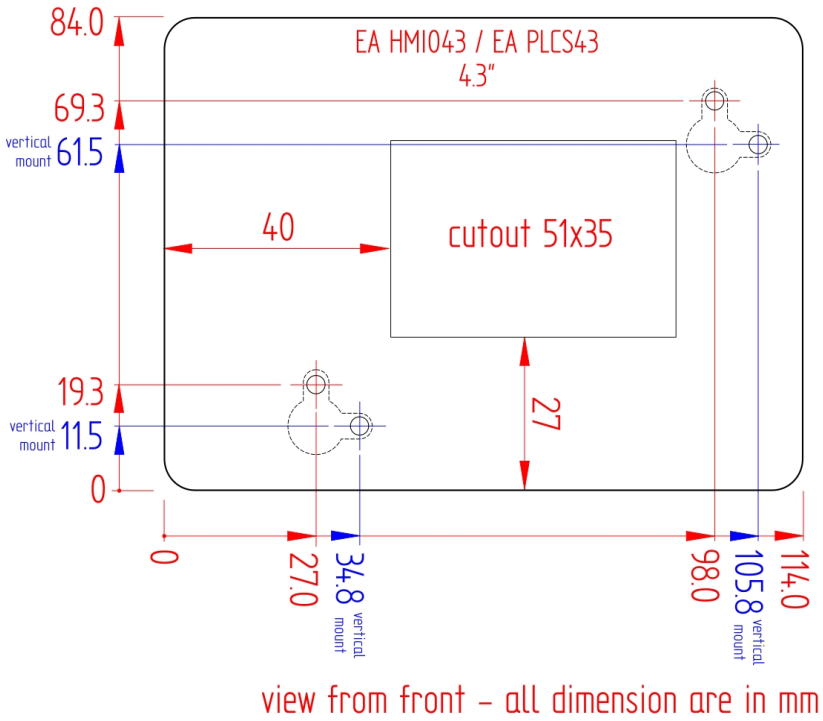
EA PLCS43
Satellite Display with Touch 4.3"



Wall Mount

The EA PLCS43-DS is prepared for easy wall mount. Simply fixed by 2 screws 4x16 DIN 7981 or similar. Note that you need a cutout of 51x35 mm for cable and RJ45 connector.
Display may be mounted horizontally (landscape mode) or vertically (portrait mode). See dimensions for vertical mount in blue color.
Please find here a drilling template as a pdf to print out.

This is view from front side:

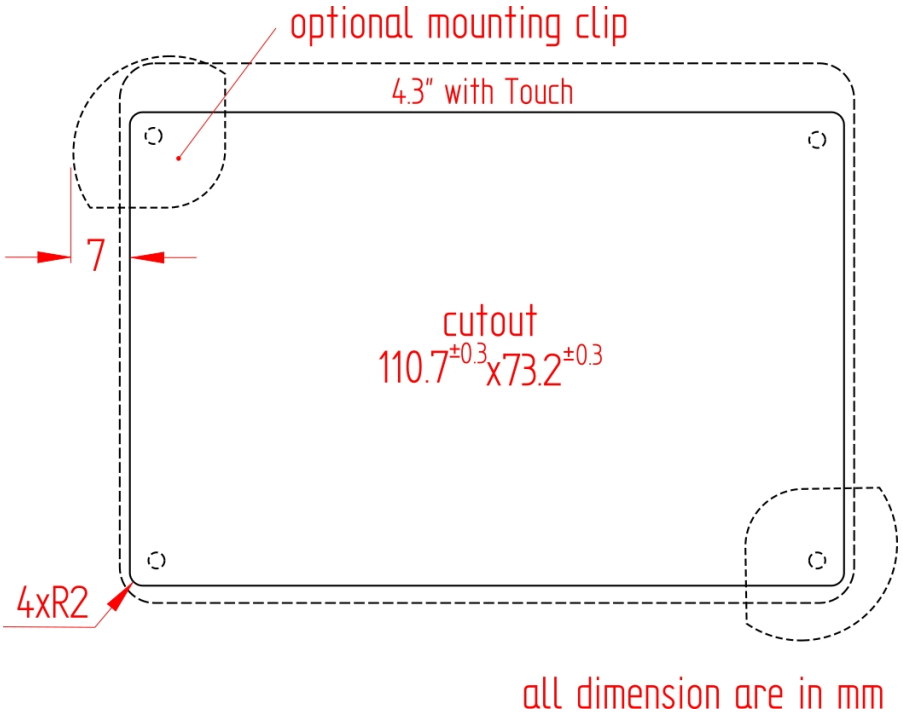


Panel Mount

The EA PLCS43-DS can be easily installed in any front panel. It's made for panel thickness from 1.0mm to 6.0mm and will be fixed by 2 or 4 mounting clips EA 00C1-1KNS (please order separately). Assembly is done by screws.

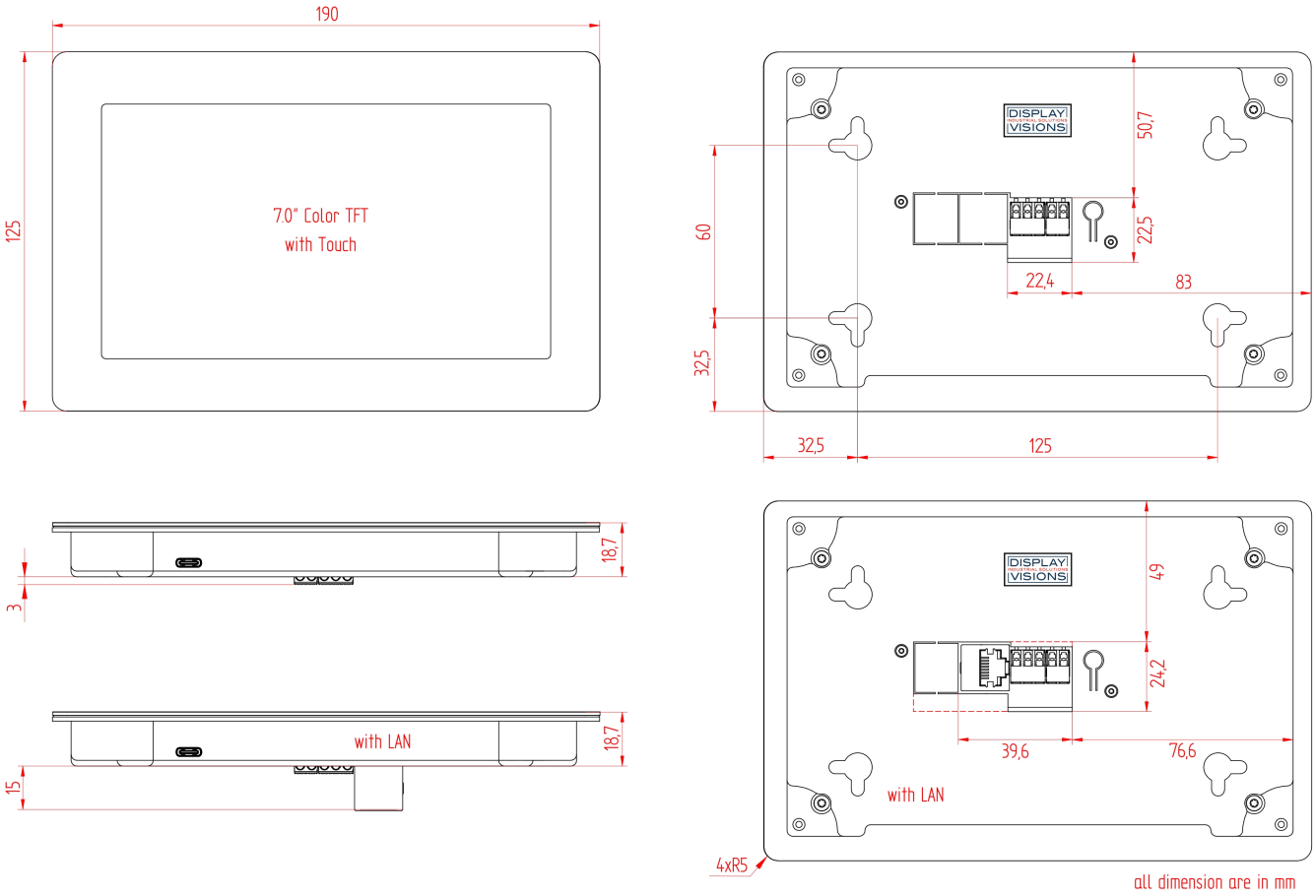
Panel thickness	Recommended screws	
1.0~4.0 mm	2.5x10	Do not use screw longer than 10mm. Otherwise display could be damaged!
3.0~6.0 mm	2.5x12	

Recommended cutout is 110.7x73.2mm. The dashed area represents the display outline and the mounting clips.
This is view from front:



all dimension are in mm

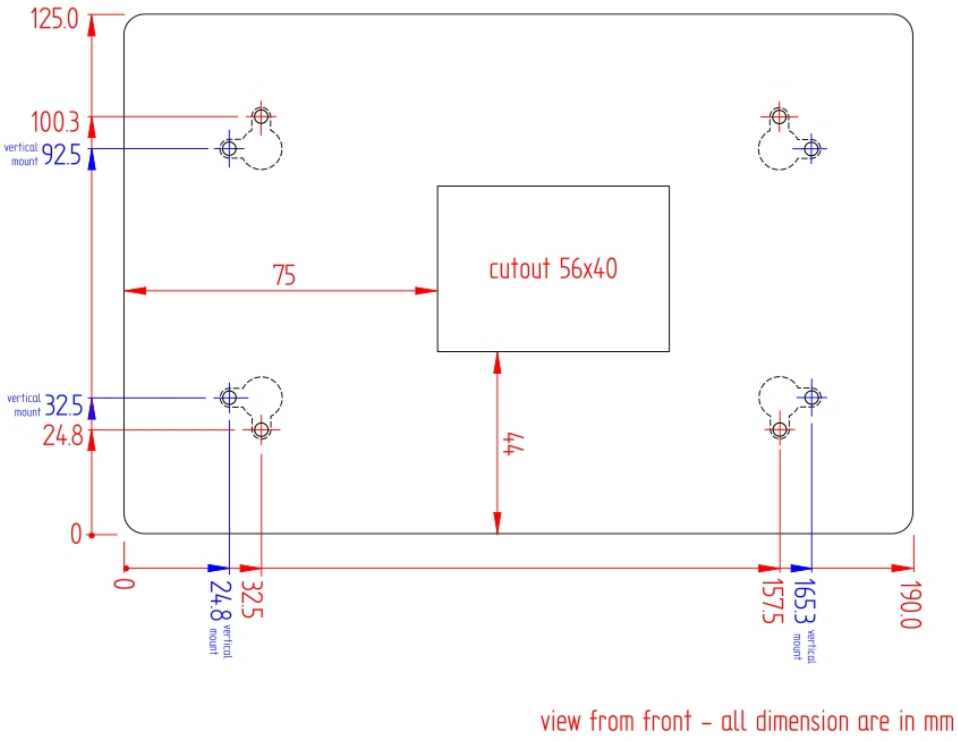
EA PLCS70
Satellite Display with Touch 7.0"



Wall Mount

The EA PLCS70-DS is prepared for easy wall mount. Simply fixed by 2 screws 4x16 DIN 7981 or similar. Note that you need a cutout of 56x40 mm for cable and RJ45 connector.
Display may be mounted horizontally (landscape mode) or vertically (portrait mode). See dimensions for vertical mount in blue color.
Please find here a drilling template as a pdf to print out.

This is view from front side:



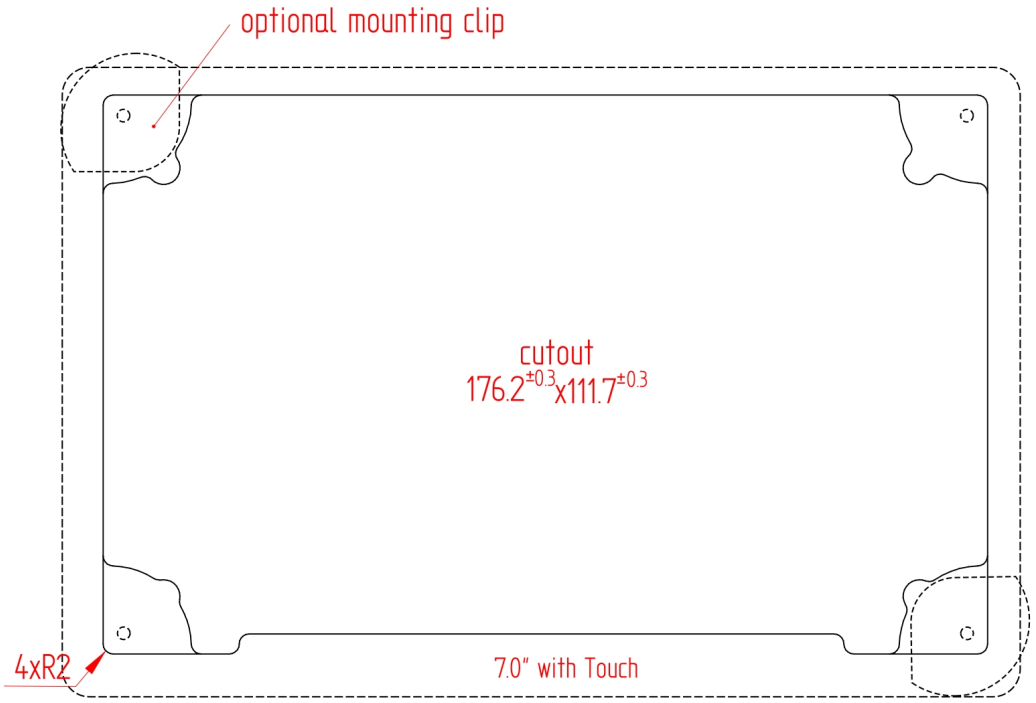
view from front - all dimension are in mm

Panel Mount

The EA PLCS70-DS can be easily installed in any front panel. It's made for panel thickness from 1.0mm to 6.0mm and will be fixed by 2 or 4 mounting clips EA 00C1-1KNS (please order separately). Assembly is done by screws.

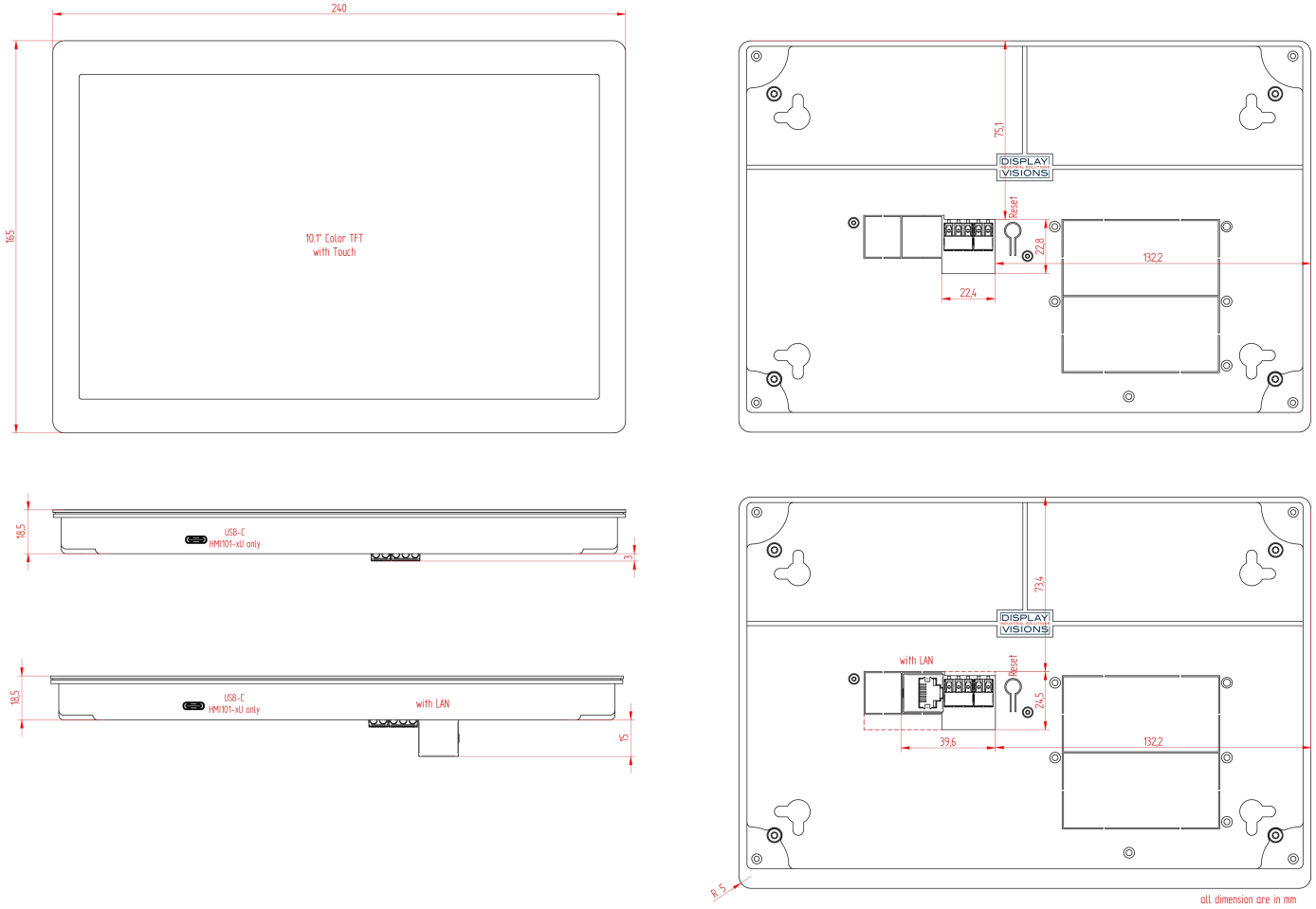
Panel thickness	Recommended screws	
2.0~4.0 mm	2.5x10	Do not use screw longer than 10mm. Otherwise display could be damaged!
3.0~6.0 mm	2.5x12	

Recommended cutout is 176.2x111.7mm. The dashed area represents the display outline and the mounting clips.
This is view from front:



all dimension are in mm

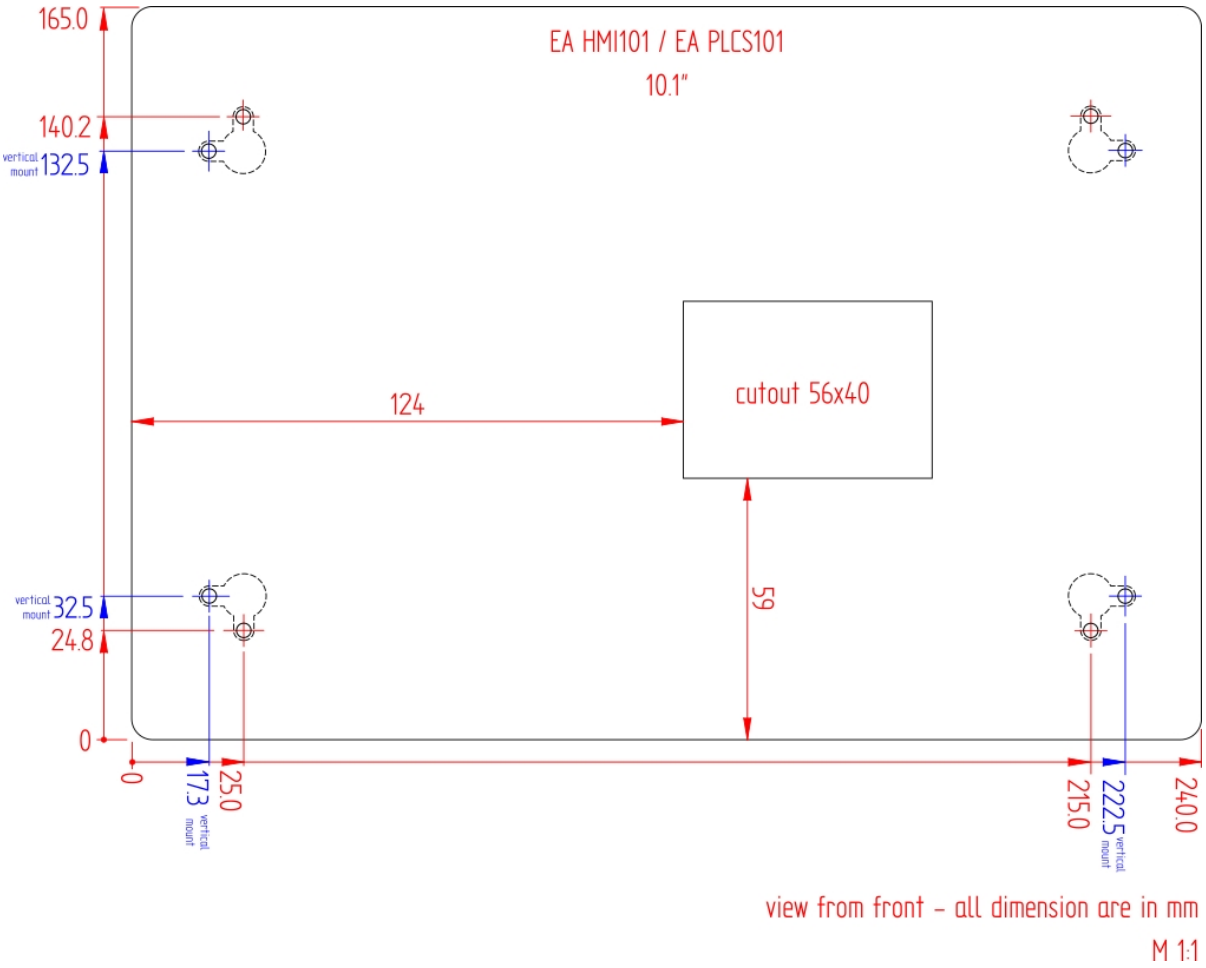
EA PLCS101
Satellite Display with Touch 10.1"



Wall Mount

The EA PLCS70-DS is prepared for easy wall mount. Simply fixed by 2 screws 4x16 DIN 7981 or similar. Note that you need a cutout of 56x40 mm for cable and RJ45 connector.
Display may be mounted horizontally (landscape mode) or vertically (portrait mode). See dimensions for vertical mount in blue color.
Please find here a drilling template as a pdf to print out.

This is view from front side:

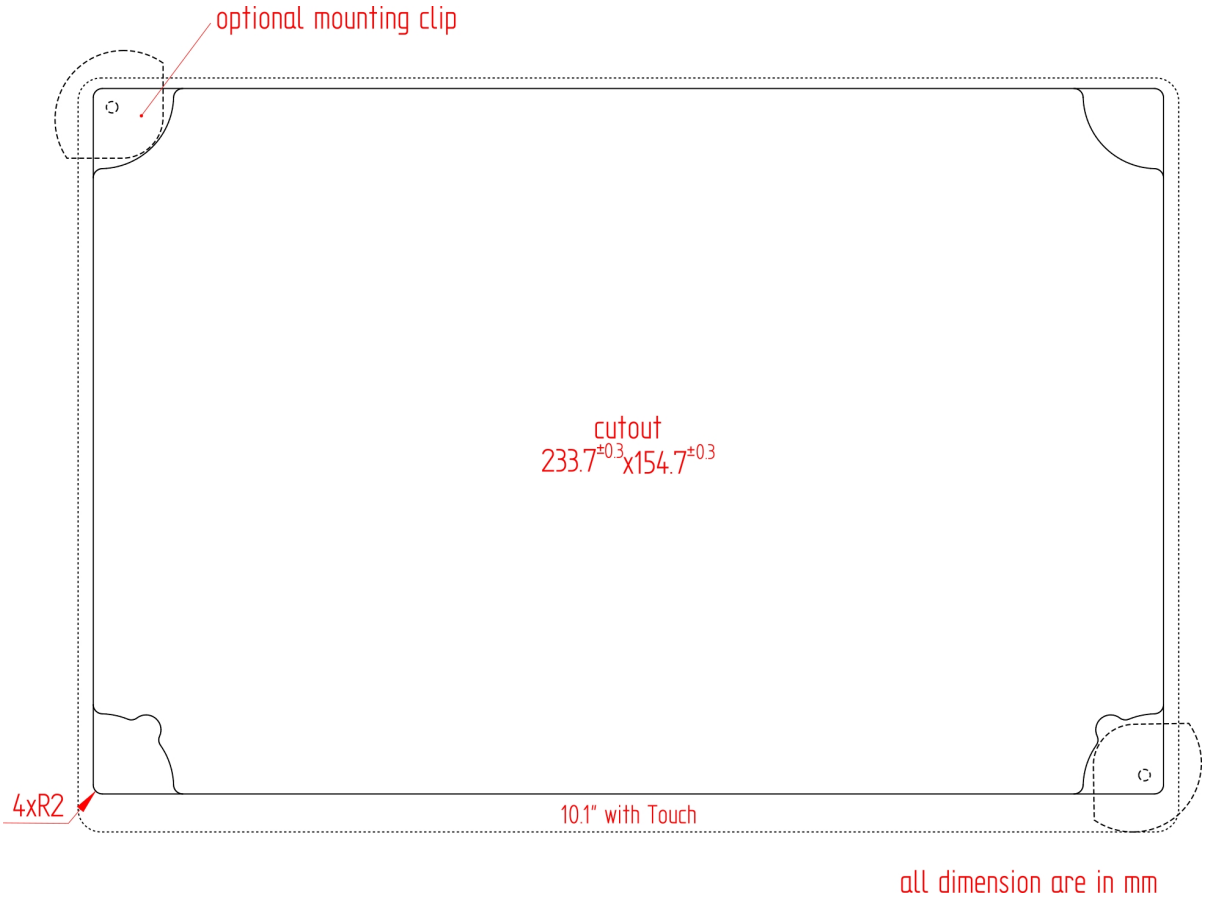


Panel Mount

The EA PLCS70-DS can be easily installed in any front panel. It's made for panel thickness from 2 mm to 6 mm and will be fixed by 2 or 4 mounting clips EA 00C1-1KNS (1 pair, please order separately). Assembly is done by screws (included).

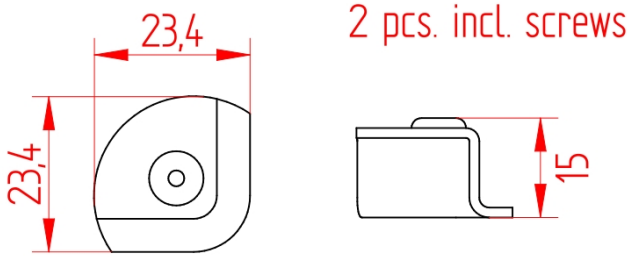
Panel thickness	Required screw (included in EA 00C1)	Note
2.0~4.0 mm	2.5x10	Do not use screw longer than 10mm. Otherwise display coul damaged!
3.0~6.0 mm	2.5x12	

Recommended cutout is 233.7x154.7mm. The dashed area represents the display outline and the mounting clips.
This is view from front:



EA 00C1-1KNS
Mounting Clips for Satellite

There are optionally 2 mounting clips to fix the Satellite Displays.
They come together with screws in 2 different length for different panel thickness: 2.5x10 and 2.5x12

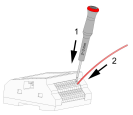


Connection

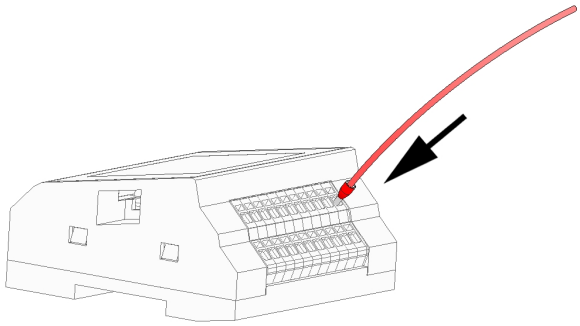
The Core-PLC provides lots of input and output connectors. It is quick and easy to connect external sensors and load. Plug in the cable tool-free into push-in connection technology at a 45° angle. The green terminal blocks (Core) are designed to cover wires from AWG 12 to AWG 28, which is 0.09 to 4 mm². The white terminal blocks (Satellite) provide a tool-free connection for wires from AWG 12 to AWG 28, which is 0,09 to 4 mm²
The wire should be stripped for 10 mm length. Both can be used, riged conductors and cable litz. To release simply insert a screw driver into the slot above the cable entry and pull out the cable. Also to insert a cable litz, a screw driver need to be used meanwhile.

Riged cable

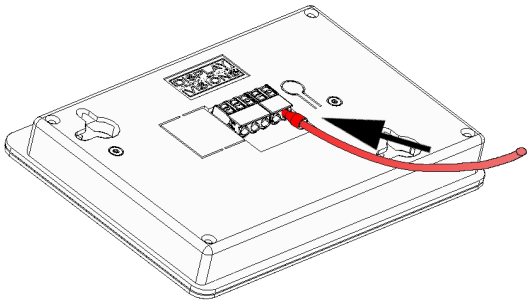
Cable litz



PLCC
(Core)



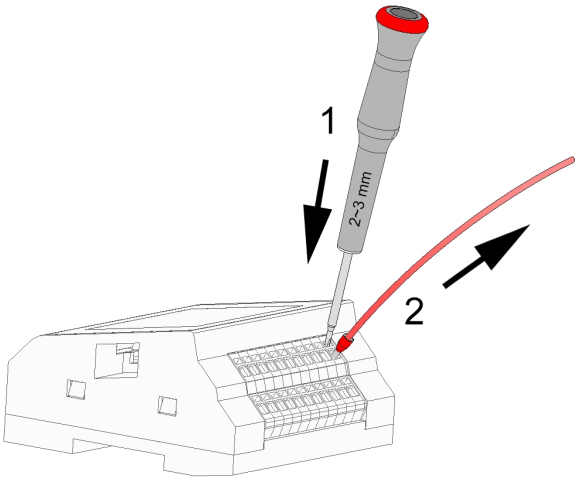
PLCC (Core)



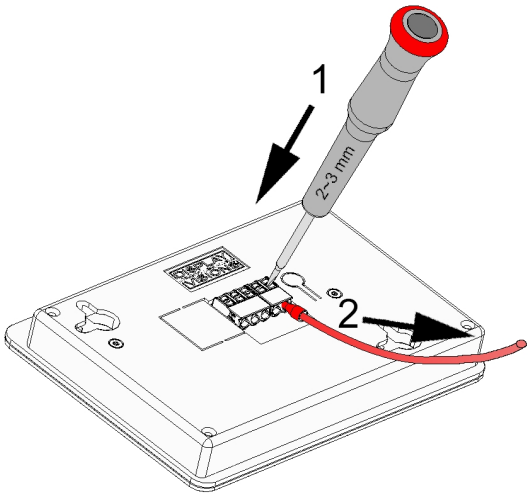
PLCS (Satellite)

PLCS (

Release



PLCC (Core)

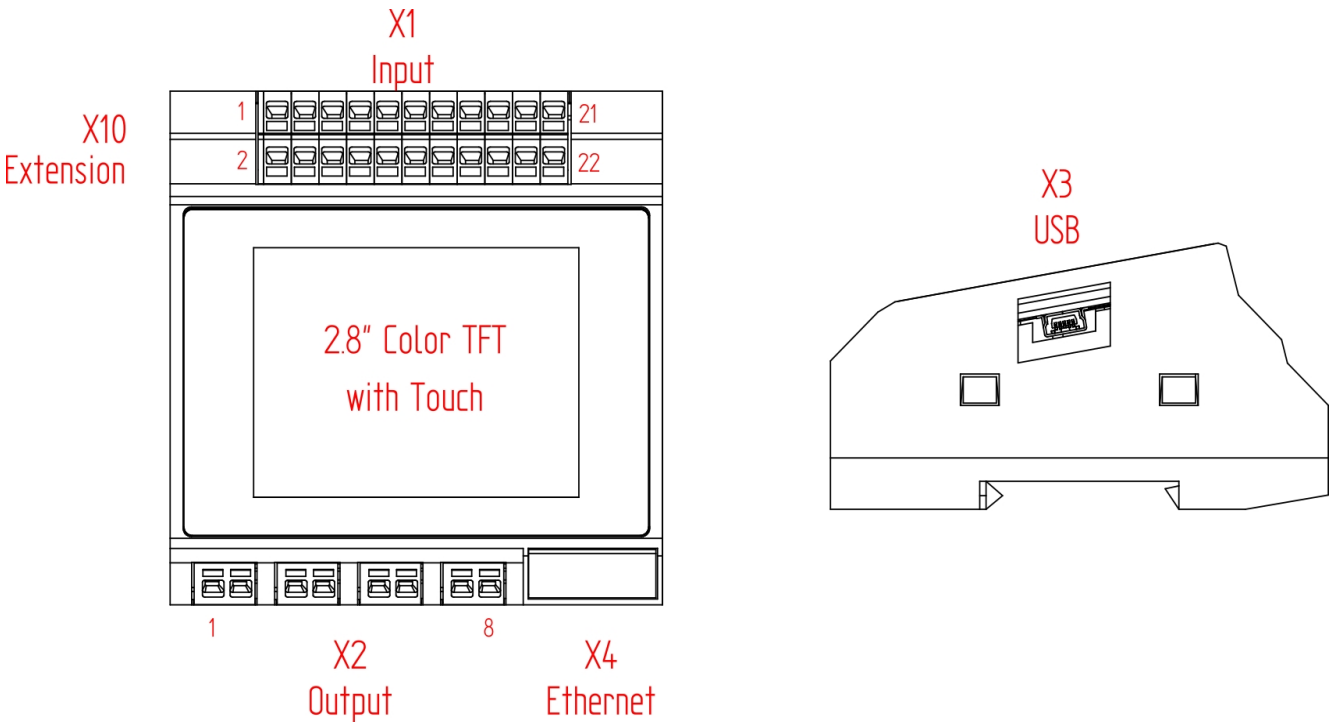


PLCS (Satellite)

EA PLCC28-D8I4R4AR

The EA PLCC28 is made for installation in control cabinet. Mounting is easy via DIN rail.

Commissioning is quick and easy thanks to tool-free push-in connection technology X1 and X2 at a 45° angle.



Input (X1.1 to X1.22)

The green 2-row terminal blocks provide a tool-free connection for wires from AWG 12 to AWG 28, which is 0,09 to 4 mm². Both can be used, riged conductors and cable litz. The wire should be stripped for 10 mm length. To release simply insert a screw driver into the slot above the cable entry and pull out the cable. Also to insert a cable litz, a screw driver need to be used meanwhile.

Pin	Symbol	I/O	Description
1.1	GND	PWR	Ground 0 V
1.3	I1	I	Digital Input 6..40V=
1.5	I3	I	Digital Input
1.7	I5	I	Digital Input
1.9	I7	I	Digital Input
1.11	GND	PWR	Ground 0 V
1.13	GND	PWR	Ground 0 V
1.15	GND	PWR	Ground 0 V
1.17	GND	PWR	Ground 0 V
1.19	RxD	I	RS232: Receive Data
1.21	485A+	I/O	Interconnection Positive Channel

Pin	Symbol	I/O	D
1.2	VIN	PWR	Po
1.4	I2	I	Dig
1.6	I4	I	Dig
1.8	I6	I	Dig
1.10	I8	I	Dig
1.12	A1U	I	0-1
1.14	A2U	I	0-1
1.16	A3I	I	4-2
1.18	A4I	I	4-2
1.20	TxD	O	RS
1.22	485B-	I/O	Int

Relay Output (X2.1 to X2.8)

The EA PLCC28 provides 4 relay outputs. The green terminal blocks provide a tool-free connection for wires from AWG 12 to AWG 28, which is 0,09 to 4 mm². The wire should be stripped for 10 mm length. To release simply insert a screw driver into the slot above the cable entry and pull out the cable.

Pin	Symbol	I/O	Description
2.1	Q1	I/O	Relay 1, isolated
2.3	Q2	I/O	Relay 2, isolated
2.5	Q3	I/O	Relay 3, isolated
2.7	Q4	I/O	Relay 4, isolated

Pin	Symbol	I/O	D
2.2	Q1	I/O	Re
2.4	Q2	I/O	Re
2.6	Q3	I/O	Re
2.8	Q4	I/O	Re

USB mini X3

Connect X3 to PC to download macros.

LAN Connector X4

Connect X4 to PC or router to download macros and to connect Satellite Displays. Note that WiFi and LAN cannot be used simultanously.

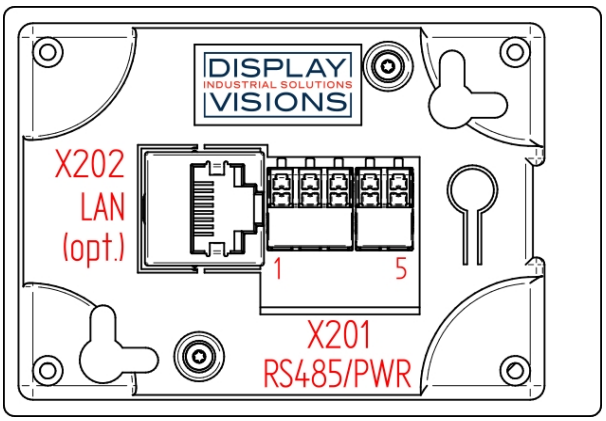
Extension connector X10

This connector is reserved for further extensions.

EA PLCS28-DS

The EA PLCS28-DS is made for wall-mount or installation in equipment. It is available with and w./o. LAN connector.

Commissioning is quick and easy thanks to tool-free push-in connection technology X201 provides RS-485 signals and power supply.
X202 is optionally assembled for Ethernet connection via RJ-45.



Power Supply and RS-485 (X201)

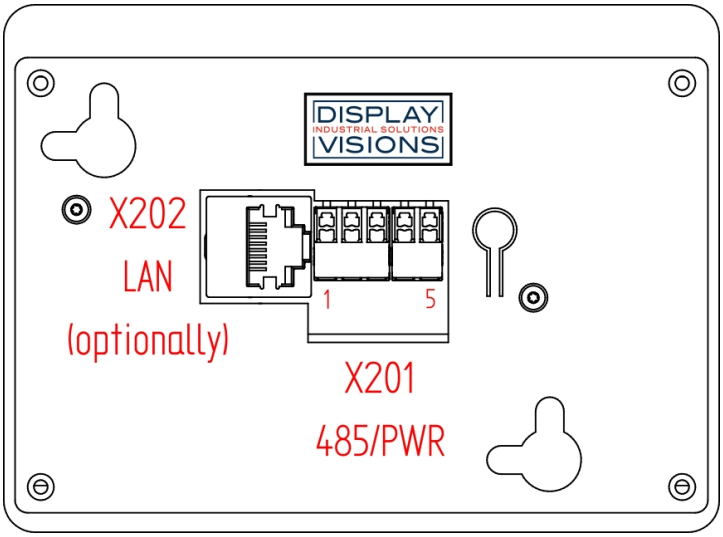
The white terminal blocks provide a tool-free connection for wires from AWG 12 to AWG 28, which is 0,09 to 4 mm². The wire should be stripped for 10 mm length. To release simply insert a screw driver into the slot above the cable entry and pull out the cable. Also to insert a cable litz, a screw driver need to be used meanwhile.

Pin	Symbol	I/O	Description
201.1	485A+	I/O	Interconnection Positive Channel
201.2	485B-	I/O	Interconnection Negative Channel
201.3	GND	PWR	Ground 0 V
201.4	VIN	PWR	Power supply +6 .. +24V= / 2.4
201.5	GND	PWR	Ground 0 V

EA PLCS43-DS

The EA PLCS43-DS is made for wall-mount or installation in equipment. It is available with and w./o. LAN connector.

Commissioning is quick and easy thanks to tool-free push-in connection technology X201 provides RS-485 signals and power supply.
X202 is optionally assembled for Ethernet connection via RJ-45.



Power Supply and RS-485 (X201)

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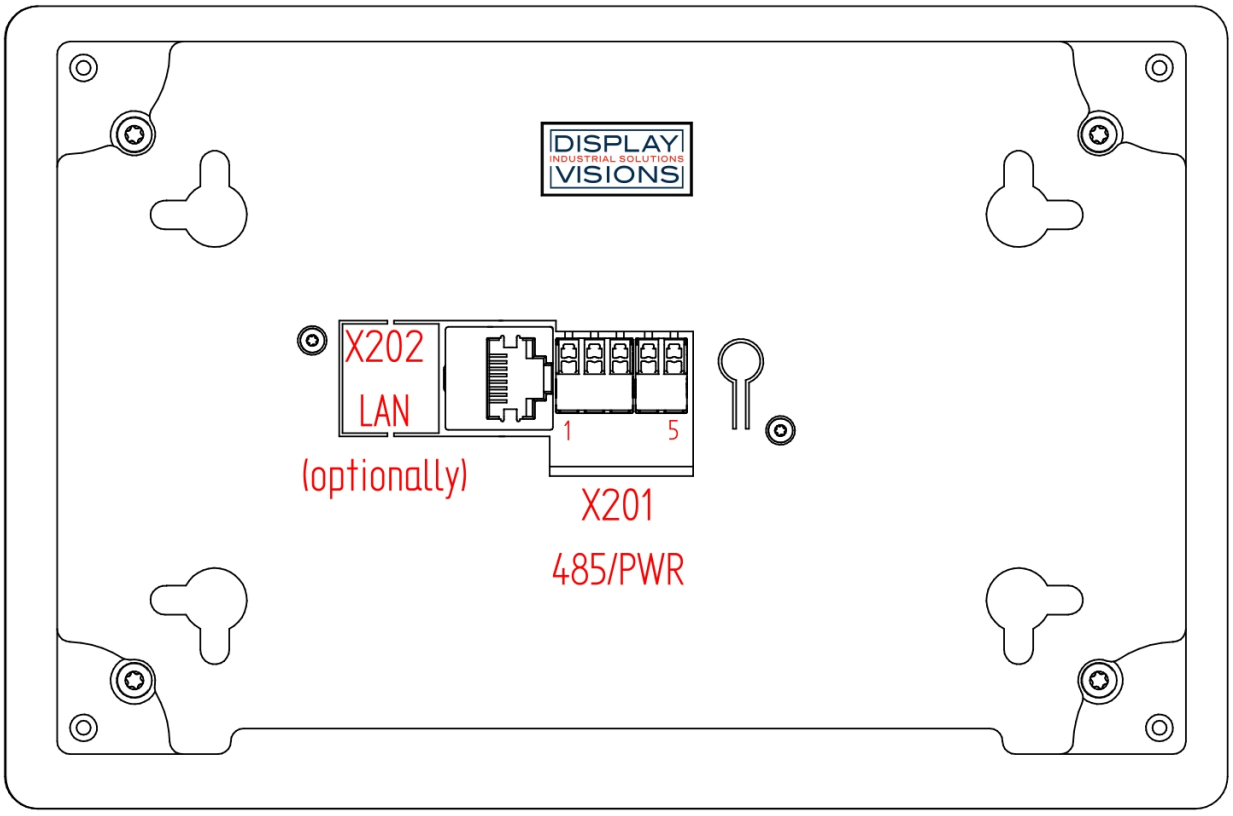
201.4	VIN	PWR	Power supply +6 .. +24V= / 2.4
201.5	GND	PWR	Ground 0 V

EA PLCS70-DS

The EA PLCS70-DS is made for wall-mount or installation in equipment. It is available with and w./o. LAN connector.

Commissioning is quick and easy thanks to tool-free push-in connection technology X201 provides RS-485 signals and power supply.
X202 is optionally assembled for Ethernet connection via RJ-45.



Power Supply and RS-485 (X201)

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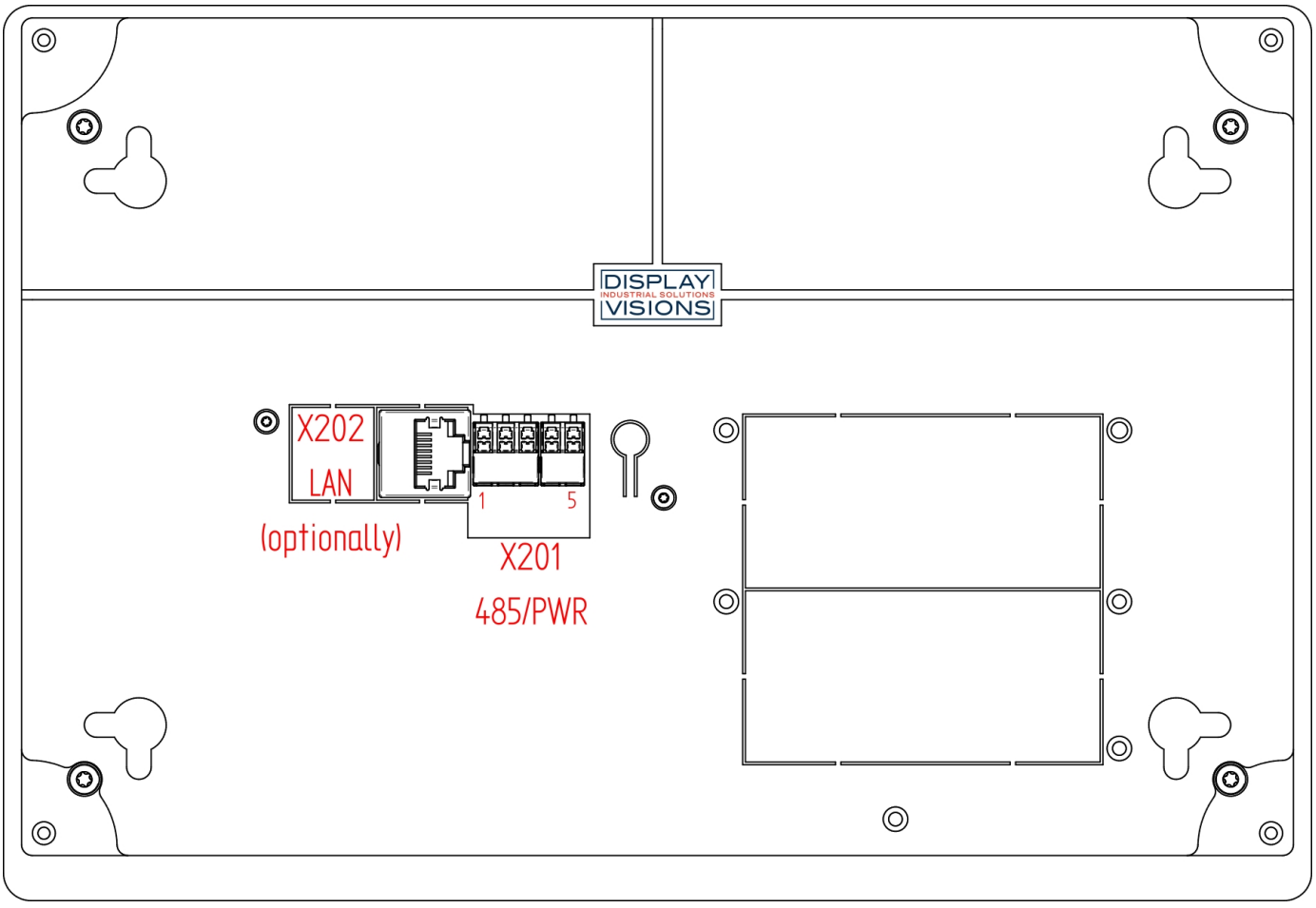
Pin	Symbol	I/O	Description
201.1	485A+	I/O	Interconnection Positive Channel
201.2	485B-	I/O	Interconnection Negative Channel
201.3	GND	PWR	Ground 0 V
201.4	VIN	PWR	Power supply +6 .. +24V= / 3.4
201.5	GND	PWR	Ground 0 V

EA PLCS101-DS

The EA PLCS101-DS is made for wall-mount or installation in equipment. It is available with and w./o. LAN connector.

Commissioning is quick and easy thanks to tool-free push-in connection technology X201 provides RS-485 signals and power supply.
X202 is optionally assembled for Ethernet connection via RJ-45.



Power Supply and RS-485 (X201)

The white terminal blocks provide a tool-free connection for wires from AWG 12 to AWG 28, which is 0,09 to 4 mm². The wire should be stripped for 10 mm length. To release simply insert a screw driver into the slot above the cable entry and pull out the cable. Also to insert a cable litz, a screw driver need to be used meanwhile.

Pin	Symbol	I/O	Description
201.1	485A+	I/O	RS485 Positive Channel
201.2	485B-	I/O	RS485 Negative Channel
201.3	GND	PWR	Ground 0 V
201.4	VIN	PWR	Power supply +6 .. +30V=
201.5	GND	PWR	Ground 0 V

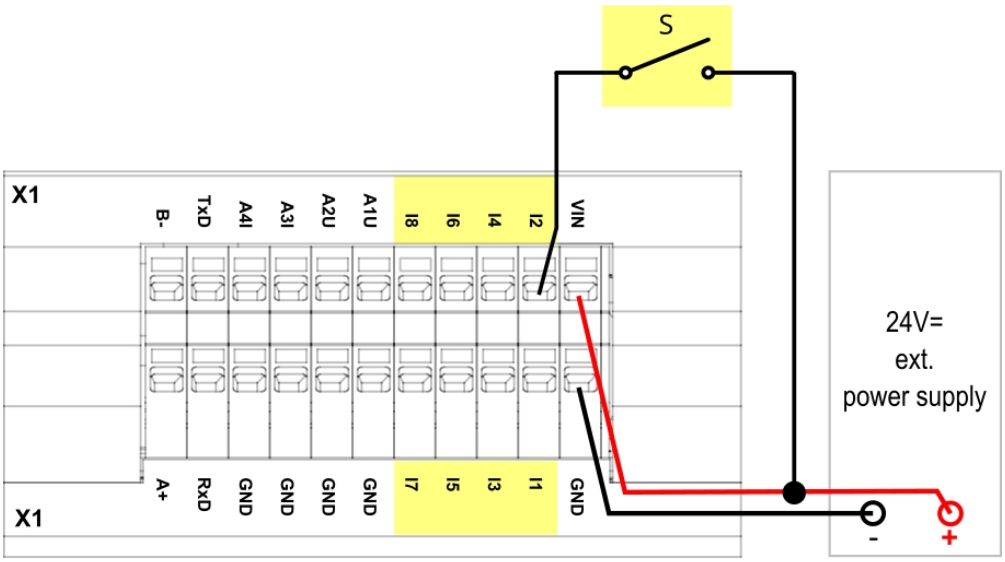
Application Examples

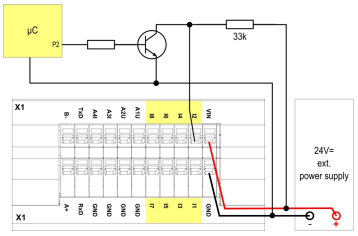
There are many way to connect external periphery to Core PLC. Here are some basic examples how to connect various sensors, switches and other equipment.

Power Supply 10.5~30V

In any case an external power supply with e.g. 12V= or also 24V= is necessary. There are several power supply units for top hat mounting.available on market.

Digital Input I1..I8

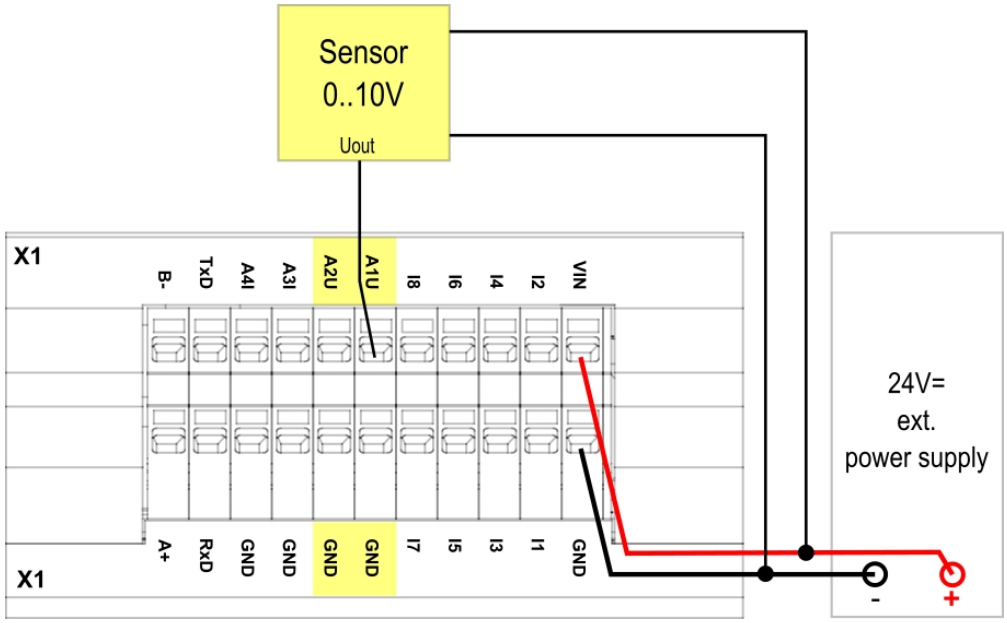




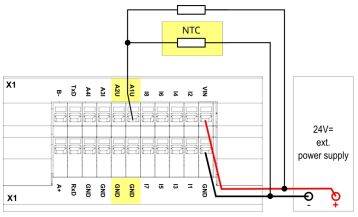
Connecting a Microcontroller output

Connecting a Switch / Push Button

Analogue Input A1U, A2U

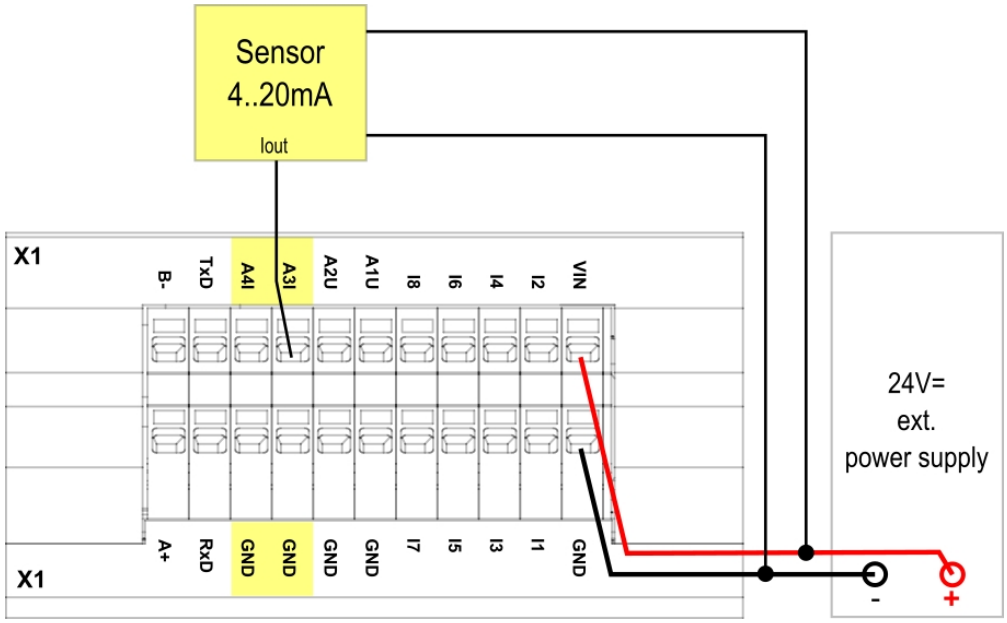


Connecting a 0-10V Sensor



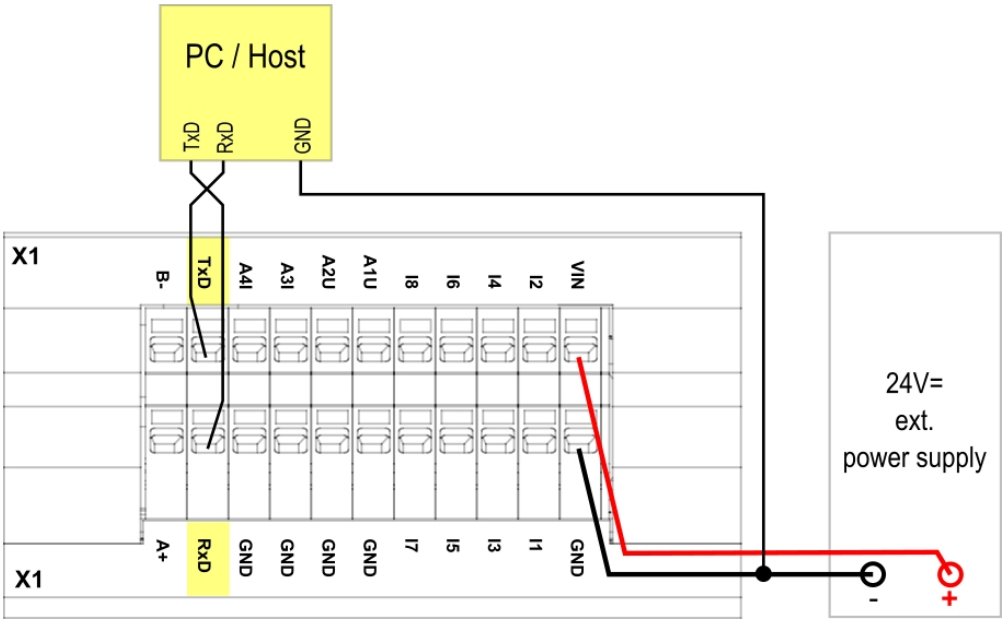
Connecting a NTC for temperature measuring

Analogue Input A3I, A4I

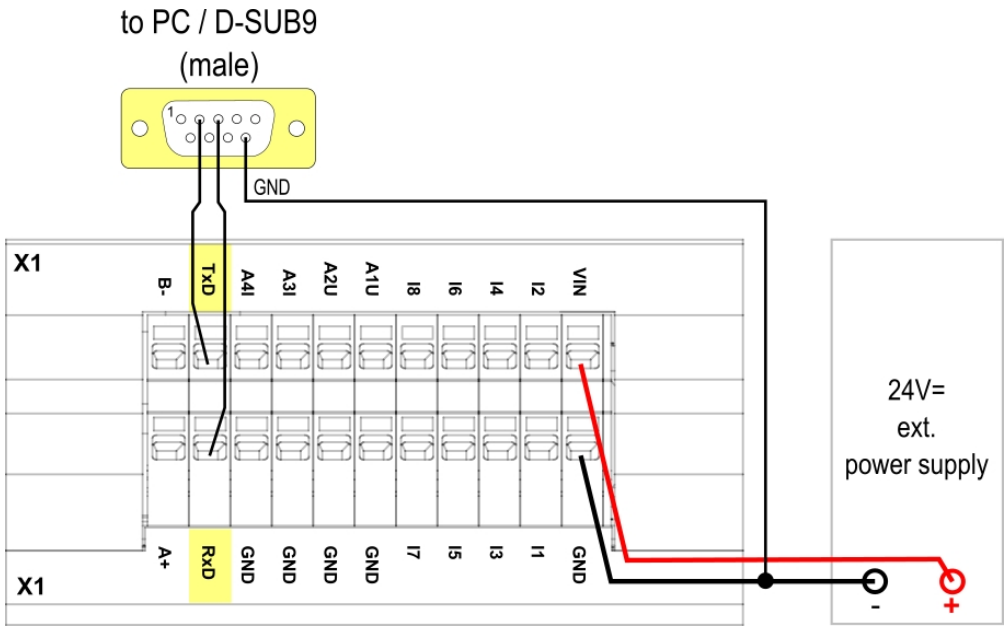


Connecting a 4-20mA Sensor

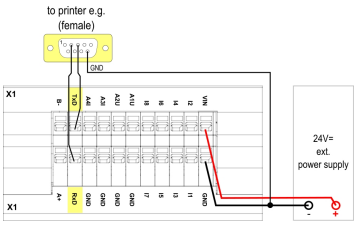
UART RS-232 TxD, RxD



Connection to PC or Host

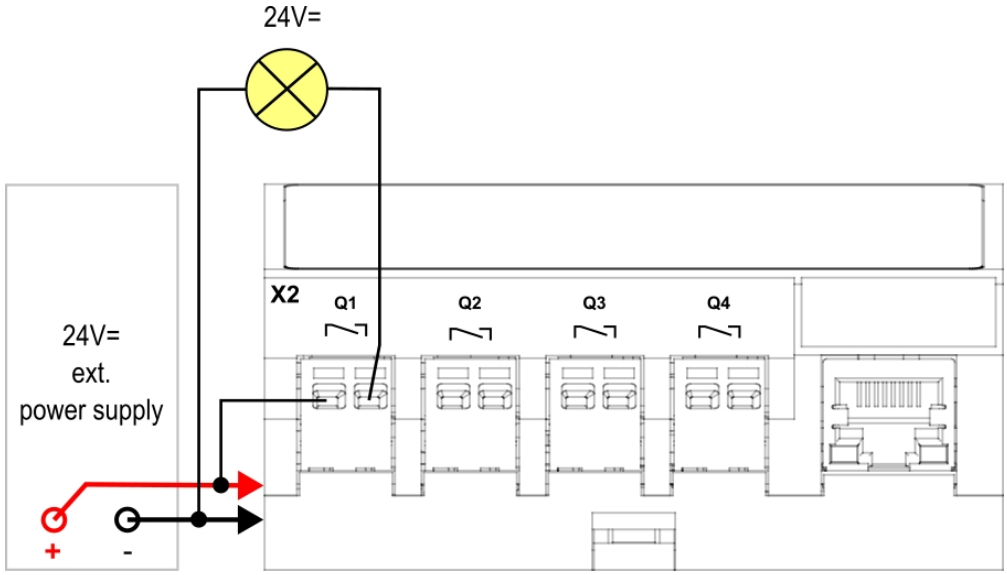


Connection to PC / Host

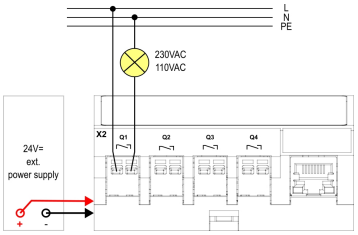


Connection to printer or modem

Relay Output Q1..Q4



Connection 24V load



Connection AC load

Electrical Specification

Following pages show the electrical specifications.

EA PLCC28 - The Core

General

	Core 2.8“
Resolution	320x240x3
TFT Size	2.8" IPS
Setup	PCAP Touch Panel
Dimension	89x90x47 mm
Mount	DIN-rail - 5 TE
I/O	8x In 4x Relay 2x 4-20mA 2x 0..10V 1x RS-232
RTC	Built-in
Interconnection	RS-485, WiFi, Ethernet
Temp. Range	-20..+50°C
IP code	IP20
Supply Voltage	12-24V=
Display	IPS with PCAP, optically bonded

Electrical characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Power Supply	VIN		10.5		30	V	DC
Power consumption	PWR	VIN= 24V		1.3		W	all relay off
				3.7		W	4x relay on
Input voltage low	I1 .. I8		0	3		V	
Input voltage high	I1 .. I8			7	30	V	
Input resistance	I1 .. I8			47		kΩ	
Analogue Input	A1U, A2U		0		10.5	V	DC
Analogue Input	A3I, A4I		0		22	mA	DC
Voltage Load	A3I, A4I	I=20mA				V	
Linearity		±1 count			1	%	
Time backup	RTC	Power outage	168			hr	
Relay Output	Q1 .. Q4	120 VAC			10	A	min. 10,000 cycles
		230 VAC			5	A	
		30 VDC			3	A	
RS-232	RxD, TxD		-15		+15	V	
WiFi / WLAN	Operating Frequency		2412		2472	MHz	
	Tx Power	802.11n mode	12		14	dBm	
		802.11b mode	18.5		20.5	dBm	
Operating Temp.	Top.		-20		+50	°C	
Storage Temp.	Tstor.		-30		+80	°C	

EA PLCS28 - 2.8" Satellite

General

	Satellite 2.8"
Resolution	320x240x3
TFT Size	2.8" IPS
Setup	PCAP Touch Panel
Dimension	84x58x15 mm
Mount	Wall mount Panel mount
I/O	-
Interconnection	WiFi, RS-485, optionally Ethernet
Temp. Range	-20..+60°C
IP code	IP20
Supply Voltage	5-24V=
Display	IPS with PCAP, optically bonded

Electrical characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Power Supply	VIN		4.5		30	V	DC
Power consumption	PWR	VIN= 24V		1.3		W	
WiFi / WLAN	Operating Frequency		2412		2472	MHz	
	Tx Power	802.11n mode	12		14	dBm	
		802.11b mode	18.5		20.5	dBm	
Operating Temp.	Top.		-20		+60	°C	
Storage Temp.	Tstor.		-30		+80	°C	

EA PLCS43 - 4.3" Satellite

General

	Satellite 4.3"
Resolution	480x272x3
TFT Size	4.3" IPS
Setup	PCAP Touch Panel
Dimension	114x84x15.5 mm
Mount	Wall mount Panel mount
I/O	-
Interconnection	WiFi, RS-485, optionally Ethernet
Temp. Range	-20..+60°C
IP code	IP20
Supply Voltage	5-24V=
Display	IPS with PCAP, optically bonded

Electrical characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Power Supply	VIN		4.5		30	V	DC
Power consumption	PWR	VIN= 24V		2.4		W	
WiFi / WLAN	Operating Frequency		2412		2472	MHz	
	Tx Power	802.11n mode	12		14	dBm	
		802.11b mode	18.5		20.5	dBm	
Operating Temp.	Top.		-20		+60	°C	
Storage Temp.	Tstor.		-30		+80	°C	

EA PLCS70 - 7.0" Satellite

General

	Satellite 7.0"
Resolution	1024x600x3
TFT Size	7.0" IPS
Setup	PCAP Touch Panel
Dimension	190x125x18.7 mm
Mount	Wall mount Panel mount
I/O	-
Interconnection	WiFi, RS-485, optionally Ethernet
Temp. Range	-20..+60°C
IP code	IP20
Supply Voltage	6-24V=
Display	IPS with PCAP, optically bonded

Electrical characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Power Supply	VIN		6		30	V	DC
Power consumption	PWR	VIN= 24V		3.4		W	
WiFi / WLAN	Operating Frequency		2412		2472	MHz	
	Tx Power	802.11n mode	12		14	dBm	
		802.11b mode	18.5		20.5	dBm	
Operating Temp.	Top.		-20		+60	°C	
Storage Temp.	Tstor.		-30		+80	°C	

EA PLCS101 - 10.1" Satellite

General

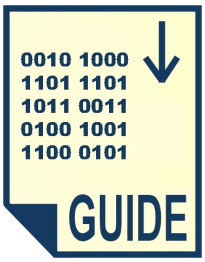
	Satellite 10.1"
Resolution	1280x800x3
TFT Size	10.1" IPS
Setup	PCAP Touch Panel
Dimension	240x165x18.5 mm
Mount	Wall mount Panel mount
I/O	-
Interconnection	WiFi, RS-485, optionally Ethernet
Temp. Range	-20..+60°C
IP code	IP20
Supply Voltage	6-24V=
Display	IPS with PCAP, optically bonded

Electrical characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Power Supply	VIN		6		30	V	DC
Power consumption	PWR	VIN= 24V		tbd		W	
WiFi / WLAN	Operating Frequency		2412		2472	MHz	
	Tx Power	802.11n mode	12		14	dBm	
		802.11b mode	18.5		20.5	dBm	
Operating Temp.	Top.		-20		+60	°C	
Storage Temp.	Tstor.		-30		+80	°C	

Command Set

There are many Graphic Commands built-in to setup a nice screen. With individual macros and logical functions you create an intelligent control unit. All software commands and it's description can be found in separate manual:



Building a Screen

The most quick and simple way to create screen content is by use of PLCDesigner. PLCDesigner is a simple to use WYSIWYG tool for Windows. You build your screen by drag-and-drop and editing properties. It includes project management and a documentation tool.
There's also simulator built-in that makes it simple and fast to test your project directly.

Here you can download PLCDesigner for free.

Helpfile

Date	Version	Info
	1.0	First release