

# Touch panel - TP 3121S - 2400456

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Touch panel with 30.7 cm/12.1" TFT-display (analog resistive (polyester)), 800 x 600 pixel(s) (SVGA), 262144 colors, Arm® Cortex®-A8, 800 MHz, 2x USB host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Windows® Embedded Compact 7 and user software: Visu+ / AX OPC Server. (bus system: without)


Similar figure

## Your advantages

- ✓ Easy installation, low installation depth, and compact design
- ✓ Short startup time
- ✓ Visu+ RT and AX OPC server integrated as standard in all devices
- ✓ Easy IP address allocation and active connection monitoring thanks to PROFINET-Device according to Conformance Class B
- ✓ Display available in sizes from 14.5 cm (5.7") to 39.05 cm (15.4")
- ✓ Versatile communication options, even with third-party systems, thanks to numerous drivers and interfaces
- ✓ Energy efficient due to LED backlighting
- ✓ Acoustic warning from alarms via integrated buzzer (85 dB)



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 055947
GTIN	4055626055947
Weight per Piece (excluding packing)	2.000 g
Custom tariff number	84714100
Country of origin	Germany

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Outer dimensions: width, height, depth	340 mm x 270 mm x 5 mm (Dimensions of the front plate)
Installation dimensions: width, height, depth	313 mm x 243 mm x 55 mm (Installation cutout)

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## Technical data

### Display

Display	30.7 cm/12.1" TFT
Screen resolution	800 x 600 Pixel(s) (SVGA)
Touch technology	analog resistive (polyester)
Brightness	360 cd/m <sup>2</sup> typical (adjustable)
Backlighting	LED
Display backlight MTBF	50000 h
Colors	262144 colors
Reading angle left	80 °
Reading angle right	80 °
Reading angle top	60 °
Reading angle bottom	80 °

### Computer data

Processor	Arm® Cortex®-A8, 800 MHz
Operating system	Windows® Embedded Compact 7
User software	Visu+
	AX OPC Server
RAM	512 MB RAM
Mass storage	Flash, 1 GB
Network	1 x Ethernet (10/100 Mbps), RJ45
Interfaces	2x USB host 2.0
Bus system	without
Slots	1x SD
Realtime clock	Yes (battery-backed)
Service life of battery	5 years (typical)

### General

Material front plate	Aluminum (natural anodized)
Housing material	Steel sheet, zinc-plated
Mounting type	Front installation
Weight	2200 g

### Ambient conditions

Degree of protection	IP65 (front), IP20 (back)
	NEMA 4X
Ambient temperature (operation)	0 °C ... 50 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	20 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	20 % ... 85 % (non-condensing)
Vibration (operation)	DIN EN 60068-2-6
Shock	DIN EN 60068-2-27

### Device supply

# Touch panel - TP 3121S - 2400456

## Technical data

### Device supply

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Typical current consumption	0.5 A
Power consumption	typ. 12 W
Power supply unit	24 V DC ±20 %

### Standards and Regulations

Shock	DIN EN 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

### Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 15;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 4.0	27330200
eCl@ss 4.1	27330200
eCl@ss 5.0	27330200
eCl@ss 5.1	27330200
eCl@ss 6.0	27242300
eCl@ss 7.0	27242302
eCl@ss 8.0	27242302
eCl@ss 9.0	27330201

### ETIM

ETIM 4.0	EC001412
ETIM 5.0	EC001412
ETIM 6.0	EC001412
ETIM 7.0	EC001412

### UNSPSC

UNSPSC 13.2	43211904
UNSPSC 18.0	43211904
UNSPSC 19.0	43211904
UNSPSC 20.0	43211904
UNSPSC 21.0	43211904

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## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

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### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 205795
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 205795
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cULus Listed			
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## Accessories

### Accessories

#### Battery module

Battery / accumulator - HMI BATTERY - 2701383

Lithium battery



#### Mounting material

Mounting material - HMI SCB MOUNTING KIT 4 - 2701384



HMI mounting kit for installation on a front plate. The mounting kit includes 4 x mounting brackets, 4 x screw threads, and a hexagonal wrench.

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## Accessories

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### Mounting material - HMI SCB MOUNTING KIT 6 - 2701385



HMI mounting kit for installation on a front plate. The mounting kit includes 6 x mounting brackets, 6 x screw threads, and a hexagonal wrench.

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### Mounting material - HMI SCB MOUNTING KIT 8 - 2701387



HMI mounting kit for installation on a front plate. The mounting kit includes 8 x mounting brackets, 8 x screw threads, and a hexagonal wrench.

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## Operating stylus

### Touch pen - TOUCH PEN - 2701379



Touch pen for analog-resistive HMIs, silver coated. Delivery includes self-adhesive pen holder.

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## Parameterization memory

### Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

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## PCB plug

### Printed-circuit board connector - MC 1,5/ 3-STF-3,5 BD:1-3 - 1751312



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, Nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 3, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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### Accessories

#### Storage medium

USB memory stick - USB FLASH DRIVE - 2402809



USB memory stick, 8 GB