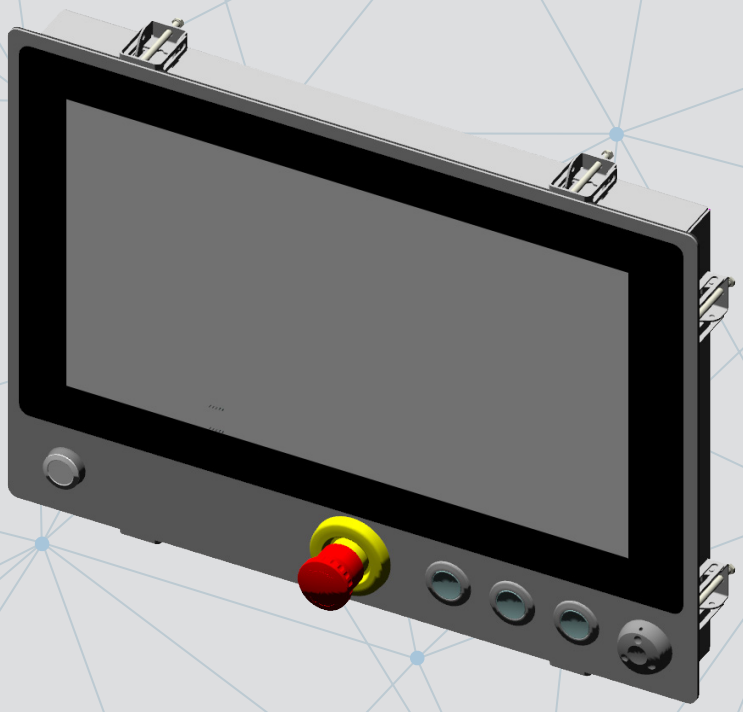
MONITORS INDUSTRIAL

USER AND MAINTENANCE MANUAL

Monitor COPILOT 15.6" PB Panel Mount



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Revision	History	Pages
Rev. 1.0	Writing	6

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This product meets the EMC protection requirements of Directive **2014/30/EC (ex 89/336/EEC)** and subsequent amendments.

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1. Caratteristiche generali

The **Copilot 15.6'' PB Monitor** is the operator panel from **System Electronics** that offers performance for all supervisory and on-board machine applications, with an innovative, robust and mechanically reliable design.

Made of stainless steel, resistant to dust and liquids, **Monitor Copilot 15.6'' PB** is a solution that can be connected to any existing PC in order to integrate the operator interface with the machine remoting it up to distances of 60m.

The **1920x1080 FullHD** graphic display allows viewing of high resolution images and movies; it features user-adjustable LED backlighting. The multitouch touch screen up to 10 simultaneous touches, and scratch resistant, allows operator interaction with simple gestures.

2. Technical specifications

LCD:

- **Size/Model:** 15.6'' TFT Color LCD
- **Maximum resolution:** 1920 x 1080 FullHD
- **Brightness:** 300 cd/m2
- **Angle of view:** ±89° H, ±89° V

Touch Screen:

PCAP - up to 10 simultaneous touches

Guaranteed operation with gloves

Input/Output Ports:

- **1 x USB type A** for the use of removable media
- **1 x M12 8 Poli X** for RVL Remote Video Link **(in detail in Chapter 4)**
- **1 x M12 4 Poli D-Code** for Ethercat connection for coded electromechanics
- **1 x M23 19 Poli** for basic electromechanical management and 24Vdc power supply

Front panel (in detail in Chap. 5):

- **RFID PANEL READER HF NFC** optional
- **Emergency Push Button**
- **Start - Run**
- **Stop**
- **Reset**
- **Encoder**

Power supply: 24Vdc through rear connector M23 19 Poles

Consumption: 1,6A

Temperature: 0°C +50°C (Max +60°C cooled version)

Assembly: See Chapter 6

Physical Characteristics:

- **Weight:** 13 Kg
- **Size:** 598(W) x 404(H) x 52(D) mm
- **Supported graphic resolutions:** the recommended 1920x1080 resolution allows the input image to be exactly matched to the resolution of the LCD display, without scaling.

3. Description and operation

Copilot 15.6'' PB Monitor può essere alimentato direttamente da 24Vdc e si accenderà automaticamente in presenza di alimentazione in ingresso.

During installation, connect a CAT 5e or higher Ethernet cable to the M12 8-pin X port of the monitor with the PC you intend to remote.

Apply power to the monitor only when all wiring is in place.

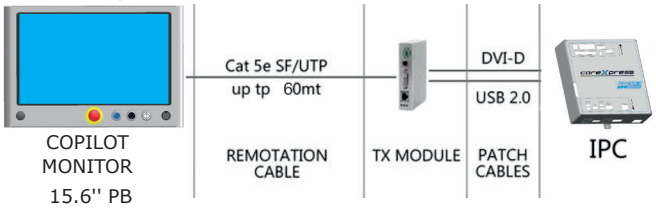
All parameters have already been optimized when testing the monitor, but can be customized based on different applications.

4. Transmitter DVI-D/USB 2.0 (Code 60001026)

The RVL transmitter allows you to connect the Copilot 21.5" monitor to a separate PC from a distance **of up to 60 meters.**

Located near the PC, it is connected to it via a USB cable and a DVI-D cable; and to the remote monitor via an Ethernet Cat 5e cable.

For RVL transmitter specifications and operating instructions, refer to the manual code **60001026.**



5. Push Button Panel

The **Copilot 15.6'' PB Monitor** has 3 front stainless steel buttons, configurable and with interchangeable serigraphs to adapt to CE and UL regulations and an emergency mushroom.

In detail, from left:

1) RFID PANEL READER HF NFC Optional **-** keyboard Emulation

2) EMERGENCY PUSH BUTTON IP67 with 4 contacts, 2 of which are self-monitoring and with luminous ring nut

3) Start - Run IEC 60417-5104 (200-08)

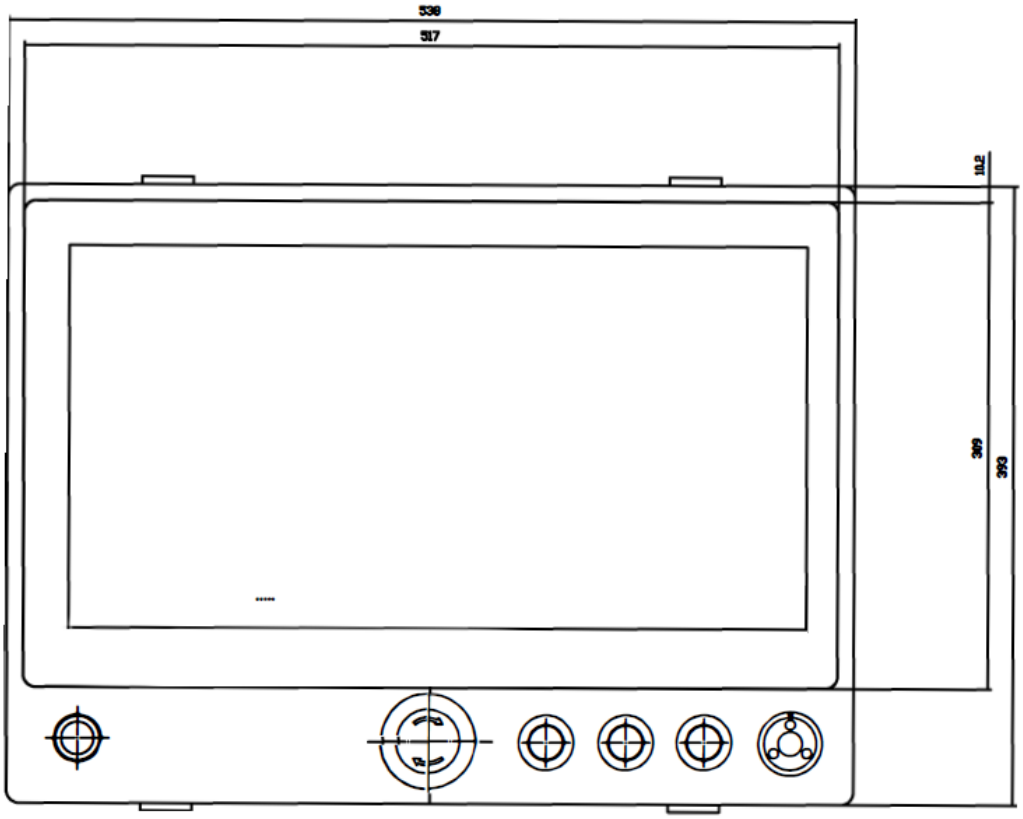
START/STARTUP/INSERTION

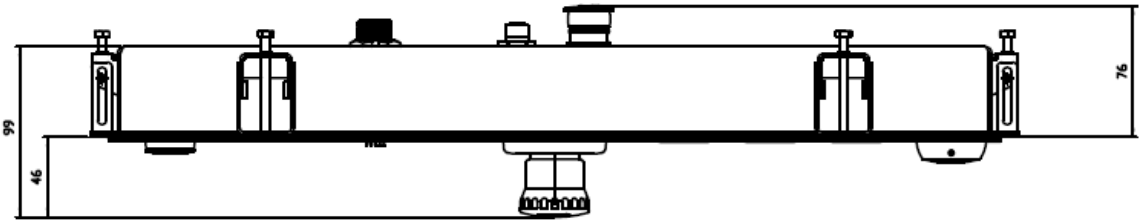
4) Stop IEC 60417-5110A(2004-06)

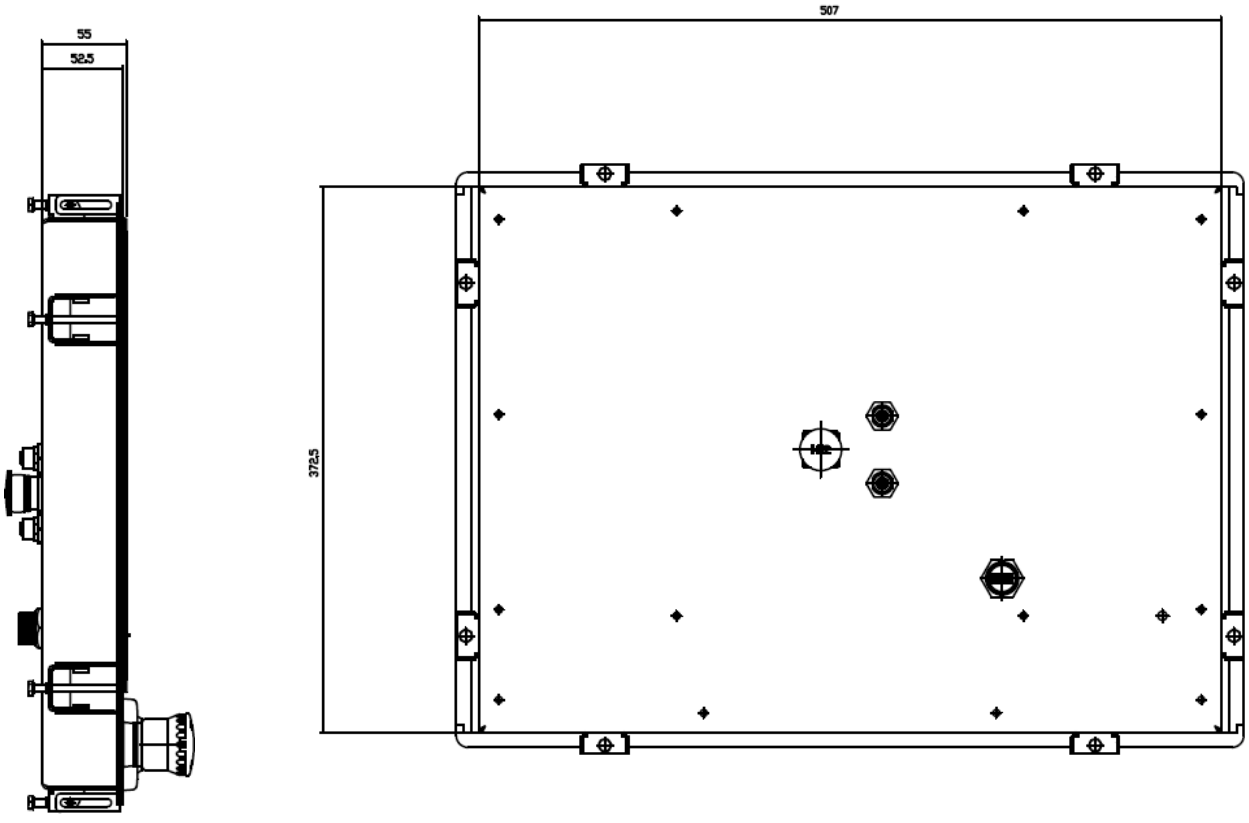
5) Reset (ISO 7000 – 1027)

6) Incremental encoder managed by knob - Optional

6. Installation

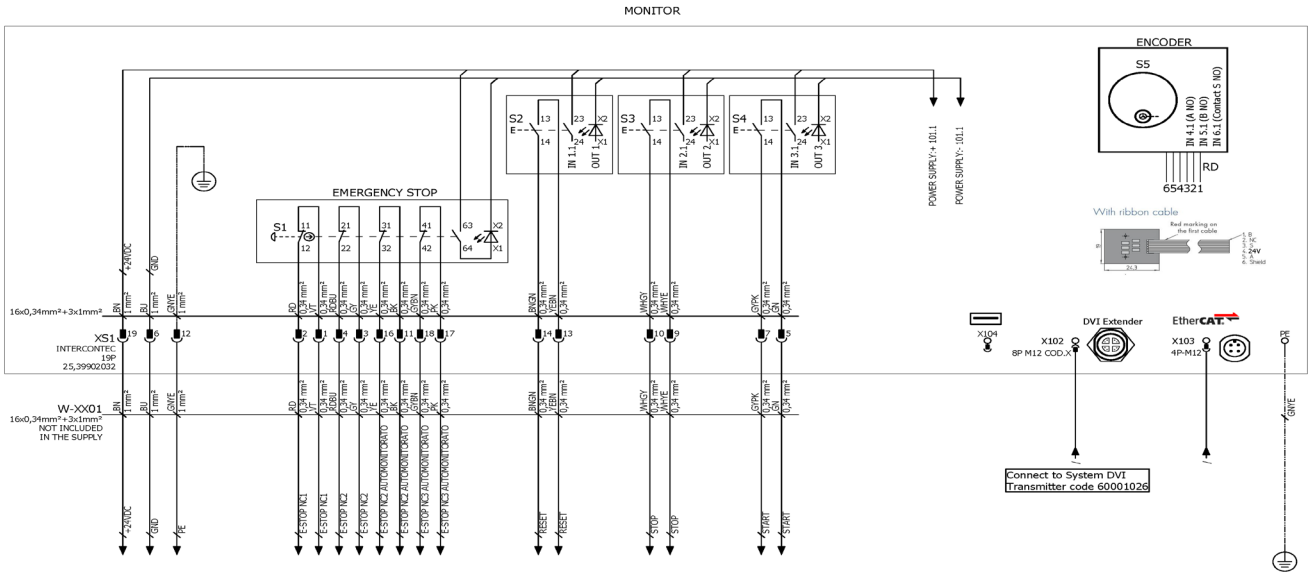


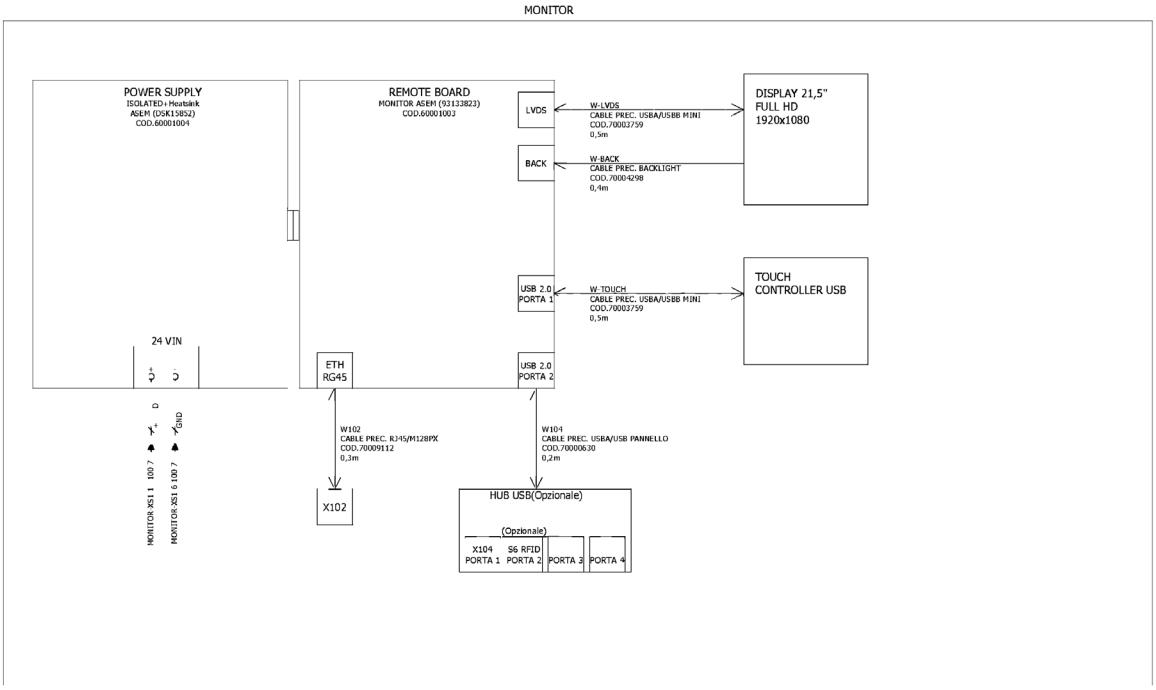




7. Wiring diagram for machine wiring

Image for indicative purposes only:
The wiring diagram is variable depending on the wiring.





8. Waste Directive

Informazioni agli utenti ai sensi del Decreto Legislativo 14 marzo 2014, n. 49 "Attuazione della direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE).

Decreto 25 luglio 2014 del ministero dell'Ambiente, recante "Attuazione delle direttive delegate della Commissione europea **2014/69/UE, 2014/70/UE, 2014/71/UE, 2014/72/UE, 2014/73/UE, 2014/74/UE, 2014/75/UE, 2014/76/UE del 13 marzo 2014 di modifica del decreto 4 marzo 2014 n. 27** sulla restrizione di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (RoHS)".

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.

La raccolta differenziata della presente apparecchiatura giunta a fine vita è organizzata e gestita dal produttore.

L'utente che vorrà disfarsi della presente apparecchiatura dovrà quindi contattare il produttore e seguire il sistema che questo ha adottato per consentire la raccolta separata dell'apparecchiatura giunta a fine vita.

L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o riciclo dei materiali di cui è composta l'apparecchiatura.

Lo smaltimento abusivo del prodotto da parte del detentore comporta l'applicazione delle sanzioni amministrative previste dalla normativa vigente.