# Product datasheet

Specifications

## TSX Micro 37 21/22 PLC configurations

TSX3721101

⚠ **Discontinued on:** 31 Dec 2019

⚠ **To be end-of-service on:** 31 Dec 2027

⚠ **Discontinued**

**EAN Code: 3389110580532**

## Main

| | |
|---|---|
| **Range Of Product** | Modicon TSX Micro automation platform |
| **Product Or Component Type** | Modular base controller |
| **Primary Voltage** | 24 V 19.2…30 V DC |
| **Input Current** | 2 mA 60 A |
| **Immunity To Microbreaks** | 10 ms |

## Complementary

| | |
|---|---|
| **Number Of Slots** | 3 |
| **Integrated Connection Type** | 1 serial link (TER/AUX) Uni-Telway 19.2 kbit/s<br>1 Modbus Modbus RTU 19.2 kbit/s |
| **Realtime Clock** | With |
| **Memory Description** | Flash 15 Kwords data<br>Internal RAM 20 Kwords data<br>Internal RAM (with PCMCIA card) 128 Kwords program and data<br>Internal RAM 128 Kwords data storage |
| **Maximum Size Of Object Areas** | 128 %KWi constant words<br>1 %MWi internal words<br>256 %Mi |
| **Execution Time Per Instruction** | 0.13 µs Boolean without PCMCIA card<br>4.5 µs arithmetic REAL floating without PCMCIA card<br>0.19 µs Boolean with PCMCIA card<br>4.5 µs arithmetic REAL floating with PCMCIA card |
| **Execution Time For 1 Kinstruction** | 5.88 100 % Boolean without PCMCIA card<br>0.27 65 % Boolean and 35 % numerical without PCMCIA card<br>4 100 % Boolean with PCMCIA card<br>0.266 65 % Boolean and 35 % numerical with PCMCIA card |
| **Application Structure** | 1 fast task<br>16 event tasks<br>1 master task |
| **System Overhead** | 1.6 ms for master task |
| **Protection Type** | Short-circuit<br>Overload protection |
| **Total Useful Secondary Power** | 16 W |
| **Electromagnetic Compatibility** | Electrostatic discharge conforming to IEC 1000-4-2 level 3<br>Electromagnetic field immunity test conforming to IEC 1000-4-3 level 3<br>Resistance to fast transient conforming to IEC 1000-4-4 level 3<br>Immunity to impulse waves conforming to IEC 1000-4-5<br>Damped oscillatory wave conforming to IEC 1000-4-12<br>Immunity to electromagnetic interference conforming to IEC 61131-2 |

# Environment

| | |
|---|---|
| **Ambient Air Temperature For Operation** | 0…60 °C |
| **Ambient Air Temperature For Storage** | -25…70 °C |
| **Relative Humidity** | 5…95 % without condensation for operation |
| **Operating Altitude** | 0...2000 m |
| **Width** | 341.4 mm |
| **Height** | 151 mm |
| **Depth** | 152 mm |
| **Net Weight** | 1.72 kg |

# Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 15.0 cm |
| **Package 1 Width** | 17.0 cm |
| **Package 1 Length** | 24.0 cm |
| **Package 1 Weight** | 1.739 kg |
| **Unit Type Of Package 2** | S04 |
| **Number Of Units In Package 2** | 4 |
| **Package 2 Height** | 30.0 cm |
| **Package 2 Width** | 40.0 cm |
| **Package 2 Length** | 60.0 cm |
| **Package 2 Weight** | 8.1 kg |

# Contractual warranty

| | |
|---|---|
| **Warranty** | 18 months |

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# Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

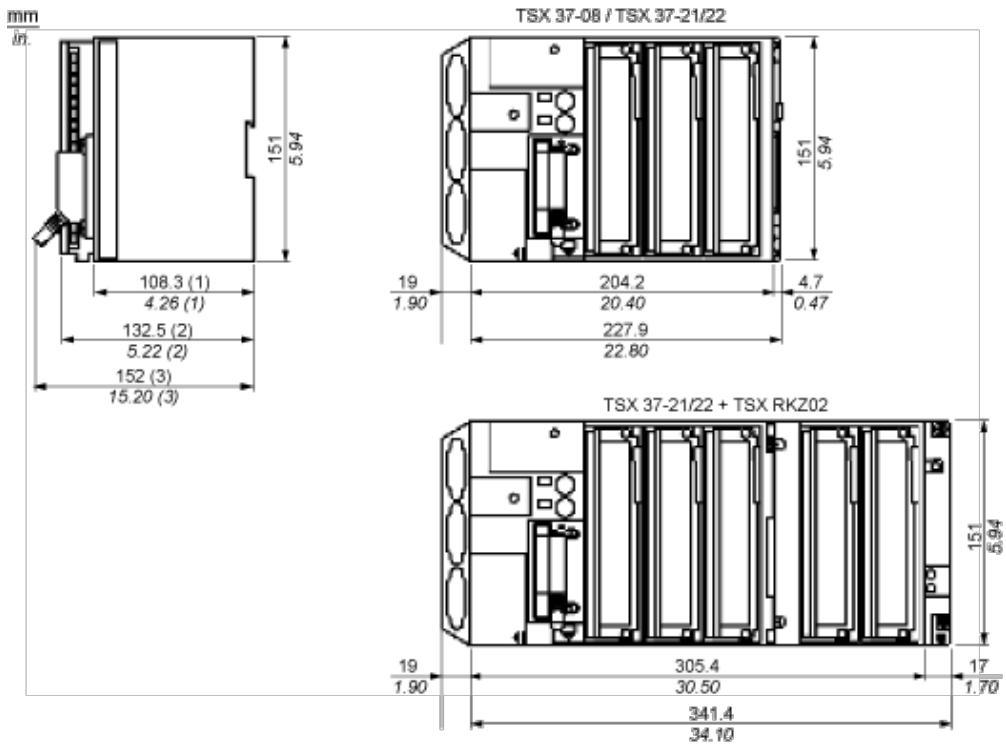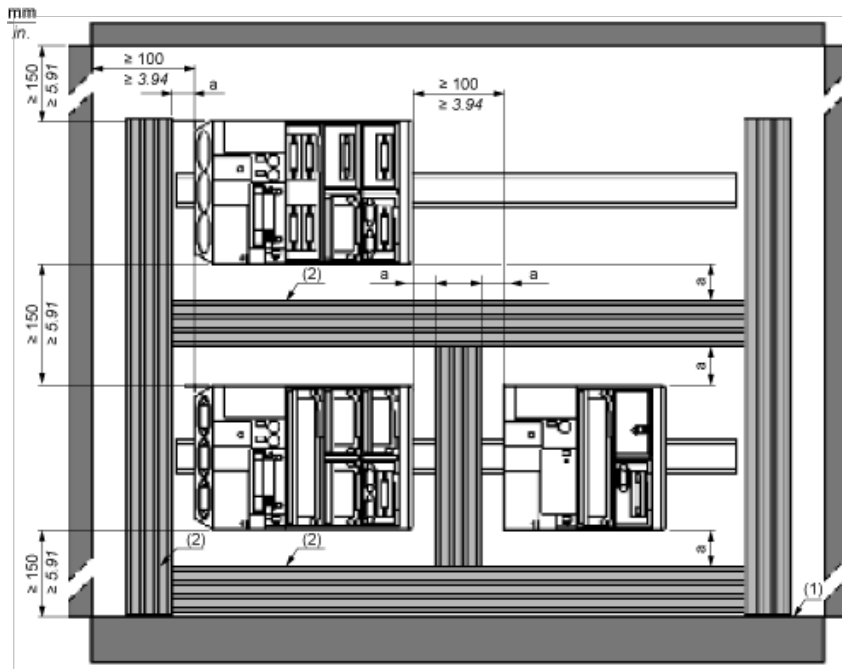| | |
|---|---|
| **Eu Rohs Directive** | Not applicable, out of EU RoHS legal scope |
| **China Rohs Regulation** | China RoHS declaration |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

**Dimensions**



(1)    PLC empty.

(2)    With screw terminal block.

(3)    With HE10 or SubD connector.

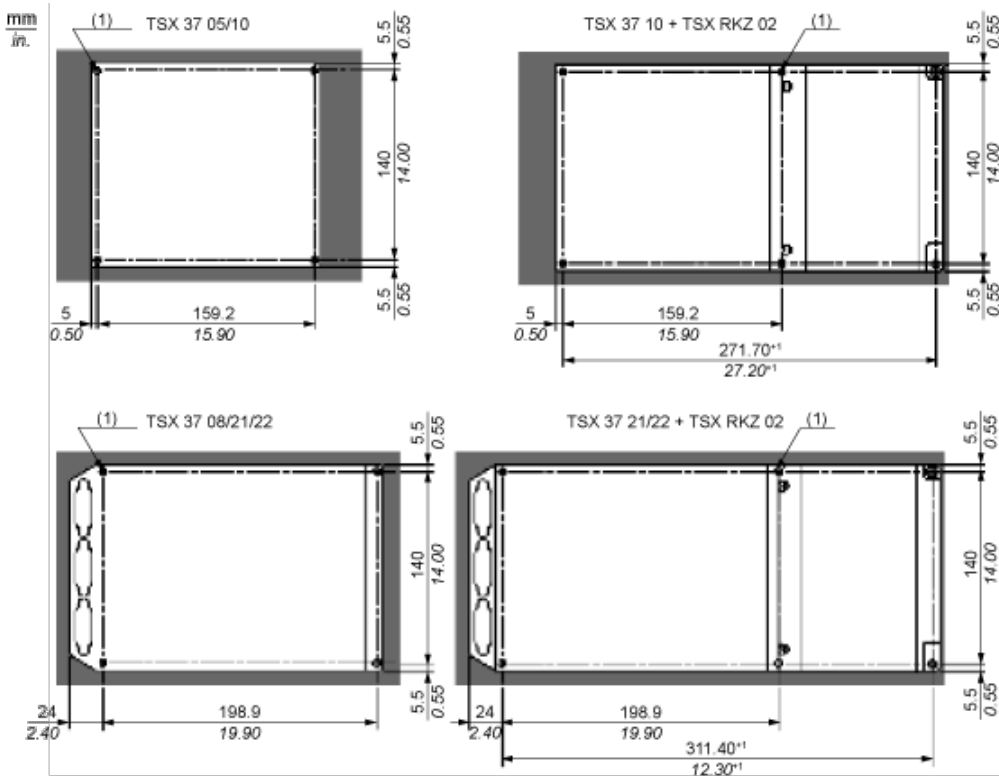Mounting and Clearance

**Spacing Requirements**



a      50 mm/1.97 in. minimum
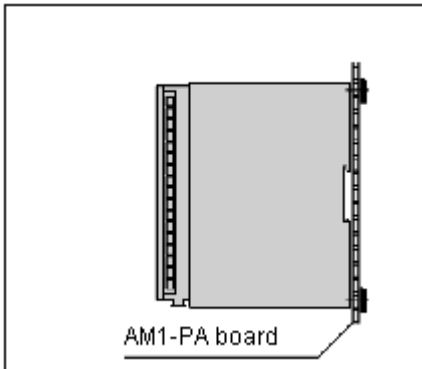
(1)     Installation or casing

(2)     Trough or cable tray

**Panel/Board Mounting**



(1)    The diameter of the fixing holes must be sufficient to take M4 screws.

**Telequick Board Mounting**

**Side View**



AM1-PA board

Use 4 screws with M4x16AF1-VA416 captive washers and 4 M4 AF1-EA4 clip nuts.