

# Product datasheet

Specifications



## advanced touchscreen panel 640 x 480 pixels VGA- 7.5" - TFT - 96 MB

Local distributor code:

398059190

HMIGTO4310

EAN Code: 3595864150277

### Main

|                           |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Range of product          | Harmony GTO                                                                                               |
| Product or component type | Advanced touchscreen panel                                                                                |
| Display colour            | 65536 colours                                                                                             |
| Display size              | 7.5 inch                                                                                                  |
| Supply                    | External source                                                                                           |
| Battery type              | Lithium battery for internal RAM, autonomy: 100 days, charging time = 5 day(s), battery life = 10 year(s) |
| Processor name            | ARM926EJ-S                                                                                                |
| Software package          | Vijeo Designer                                                                                            |

### Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal type                  | Touchscreen display                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Display type                   | Backlit colour TFT LCD                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Display resolution             | 640 x 480 pixels VGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Touch sensitive zone           | 1024 x 1024                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Touch panel                    | Resistive film, 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Backlight lifespan             | 50000 hours white at 25 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Brightness                     | 16 levels - control by touch panel<br>16 levels - control by software                                                                                                                                                                                                                                                                                                                                                                                                                |
| Character font                 | Korean<br>Taiwanese (traditional Chinese)<br>Japanese (ANK, Kanji)<br>ASCII<br>Chinese (simplified Chinese)                                                                                                                                                                                                                                                                                                                                                                          |
| [Us] rated supply voltage      | 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supply voltage limits          | 19.2...28.8 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Inrush current                 | 30 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum power consumption in W | 8 W when power is not supplied to external devices<br>5 W when backlight is OFF<br>5.5 W when backlight is dimmed<br>12 W                                                                                                                                                                                                                                                                                                                                                            |
| Local signalling               | Status LED green, steady for offline<br>Status LED green, steady for operating<br>Status LED orange, flashing for software starting up<br>Status LED red, steady for power supply (ON)<br>Status LED clear, faded for power supply (OFF)<br>COM2 LED yellow, steady for data is being transmitted<br>COM2 LED yellow, faded for no data transmission<br>SD card LED green, steady for card is inserted<br>SD card LED green, faded for card is not inserted or is not being accessed |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                            |                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory description         | Flash EPROM, 96 MB                                                                                                                                                                                                                                                                                                                                                                                         |
| Data backed up             | 512 KB internal RAM (SRAM)                                                                                                                                                                                                                                                                                                                                                                                 |
| Data storage equipment     | SD card, <= 32 GB<br>SDHC card, <= 32 GB                                                                                                                                                                                                                                                                                                                                                                   |
| Downloadable protocols     | Schneider Electric Modicon Modbus<br>Schneider Electric Modicon Uni-TE<br>Schneider Electric Modicon Modbus Plus<br>Schneider Electric Modicon FIPWAY<br>Mitsubishi Melsec third party protocols<br>Omron Sysmac third party protocols<br>Rockwell Automation Allen-Bradley third party protocols<br>Siemens Simatic third party protocols<br>Schneider Electric Modicon Modbus TCP                        |
| Integrated connection type | COM1 serial link SUB-D 9, interface: RS232C, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 187.5 kbps compatible with Siemens MPI<br>Ethernet RJ45, interface: 10BASE-T/100BASE-TX<br>Ethernet RJ45, interface: IEEE 802.3<br>USB 2.0 type A<br>USB 2.0 type mini B |
| Product mounting           | Flush mounting                                                                                                                                                                                                                                                                                                                                                                                             |
| Fixing mode                | By 4 screw clamps                                                                                                                                                                                                                                                                                                                                                                                          |
| Front material             | PPT                                                                                                                                                                                                                                                                                                                                                                                                        |
| Enclosure material         | PPT                                                                                                                                                                                                                                                                                                                                                                                                        |
| Type of cooling            | Natural convection                                                                                                                                                                                                                                                                                                                                                                                         |
| Width                      | 218 mm                                                                                                                                                                                                                                                                                                                                                                                                     |
| Height                     | 173 mm                                                                                                                                                                                                                                                                                                                                                                                                     |
| Depth                      | 60 mm                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product weight             | 1.2 kg                                                                                                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | IEC 61131-2<br>IEC 61000-6-2<br>UL 508                                                                                                                                                                           |
| Product certifications                | CE<br>cULus<br>KCC<br>C-Tick<br>UKCA<br>UKEX                                                                                                                                                                     |
| Ambient air temperature for operation | 0...55 °C                                                                                                                                                                                                        |
| Ambient air temperature for storage   | -20...60 °C                                                                                                                                                                                                      |
| Relative humidity                     | 10...90 % without condensation                                                                                                                                                                                   |
| Operating altitude                    | < 2000 m                                                                                                                                                                                                         |
| IP degree of protection               | IP20 (rear panel) conforming to IEC 60529<br>IP65 (front panel) conforming to IEC 60529                                                                                                                          |
| NEMA degree of protection             | NEMA 4X front panel (indoor use)                                                                                                                                                                                 |
| Shock resistance                      | 147 m/s² 3 chocks in each direction X, Y and Z conforming to IEC 61131-2                                                                                                                                         |
| Vibration resistance                  | 3.5 mm (f = 5...9 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to IEC 61131-2<br>1 gn (f = 9...150 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to IEC 61131-2 |
| Resistance to electrostatic discharge | 6 kV contact discharge conforming to IEC 61000-4-2 level 3                                                                                                                                                       |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 14.500 cm  |
| Package 1 Width              | 26.600 cm  |
| Package 1 Length             | 30.500 cm  |
| Package 1 Weight             | 1.538 kg   |
| Unit Type of Package 2       | P12        |
| Number of Units in Package 2 | 48         |
| Package 2 Height             | 105.000 cm |
| Package 2 Width              | 80.000 cm  |
| Package 2 Length             | 120.000 cm |
| Package 2 Weight             | 99.392 kg  |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | ID |
|-------------------|----|

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 620 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 126 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.3 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 493 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 1 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| F-gas free                             | Only air and vacuum used for insulation / breaking, no F-gas including SF6             |
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | No                                                                                     |
| SCIP Number                            | 76565be4-97e1-4441-9623-82d029ddb7ce                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Product contains halogen above thresholds                                              |
| PVC free                               | No                                                                                     |
| Silicone-free                          | No                                                                                     |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Recyclability potential, in %   | 25                                      |
| End of life manual availability | <a href="#">End of Life Information</a> |
| Removable battery               | User replaceable                        |
| Take-back                       | No                                      |

WEEE Label



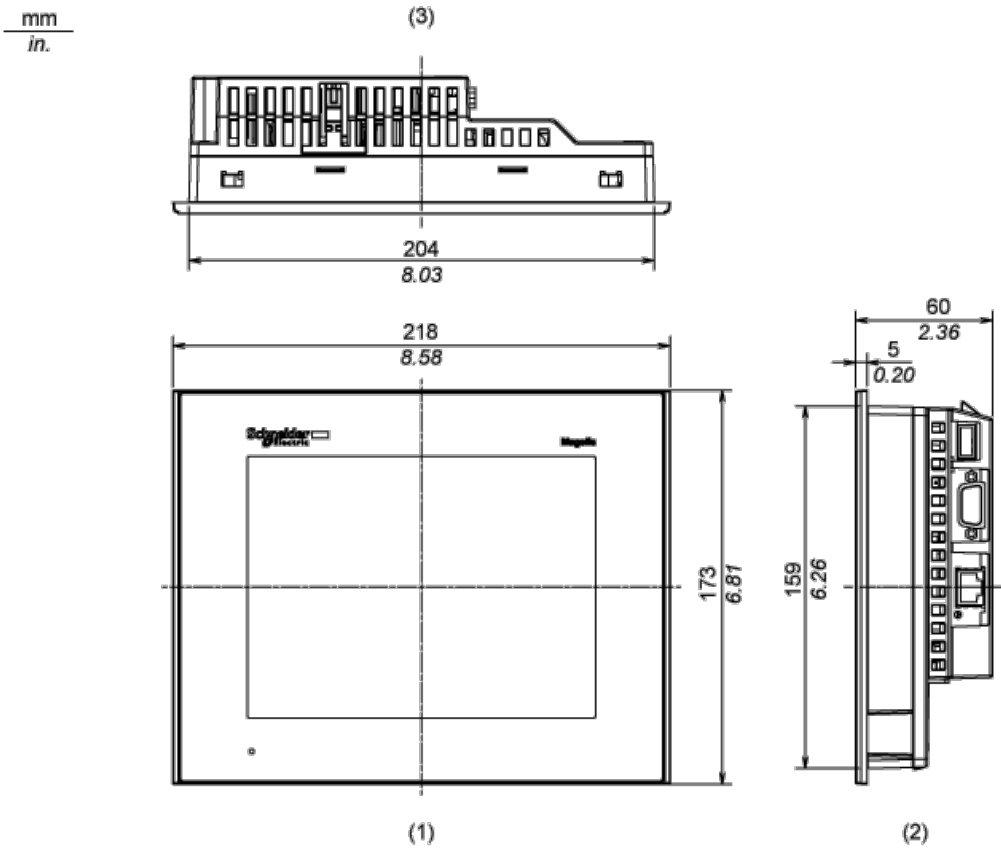
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Dimensions Drawings

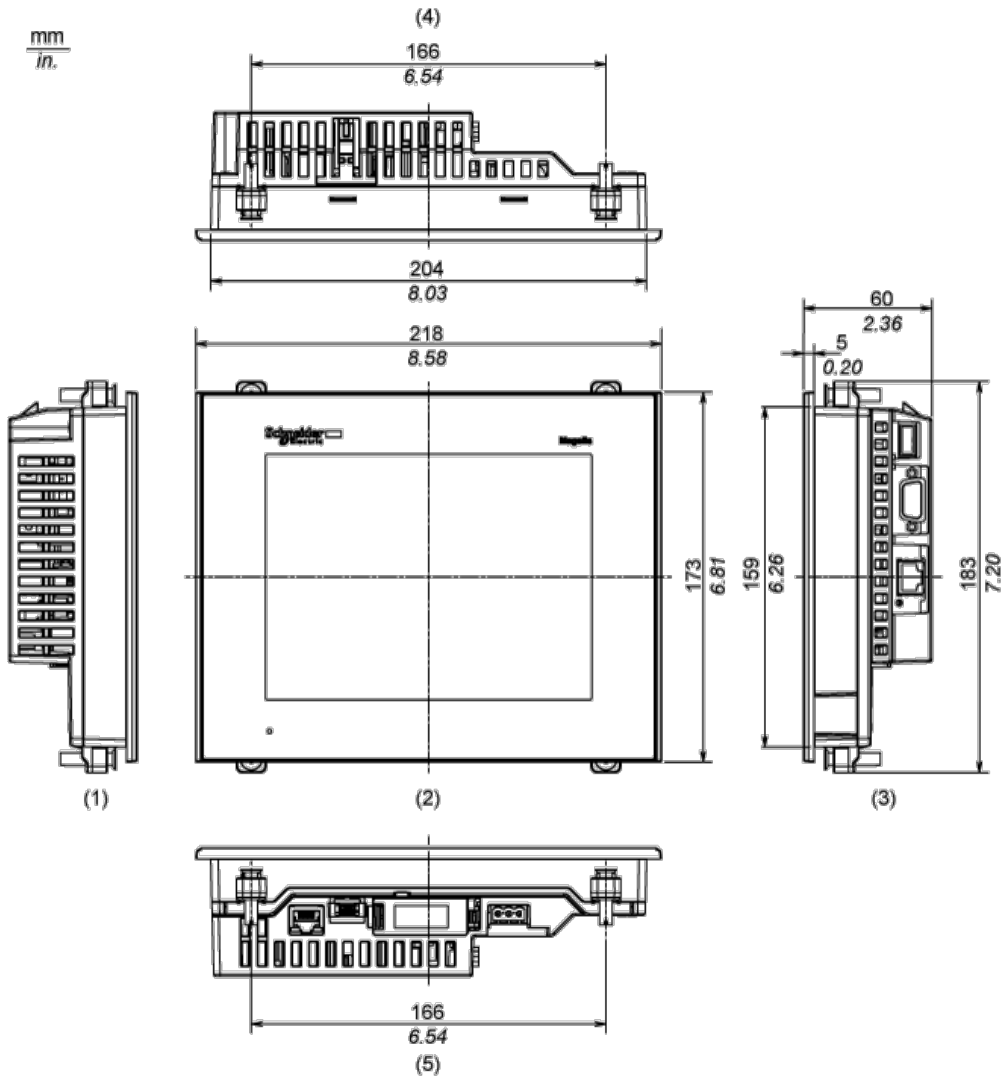
Dimensions

External Dimensions



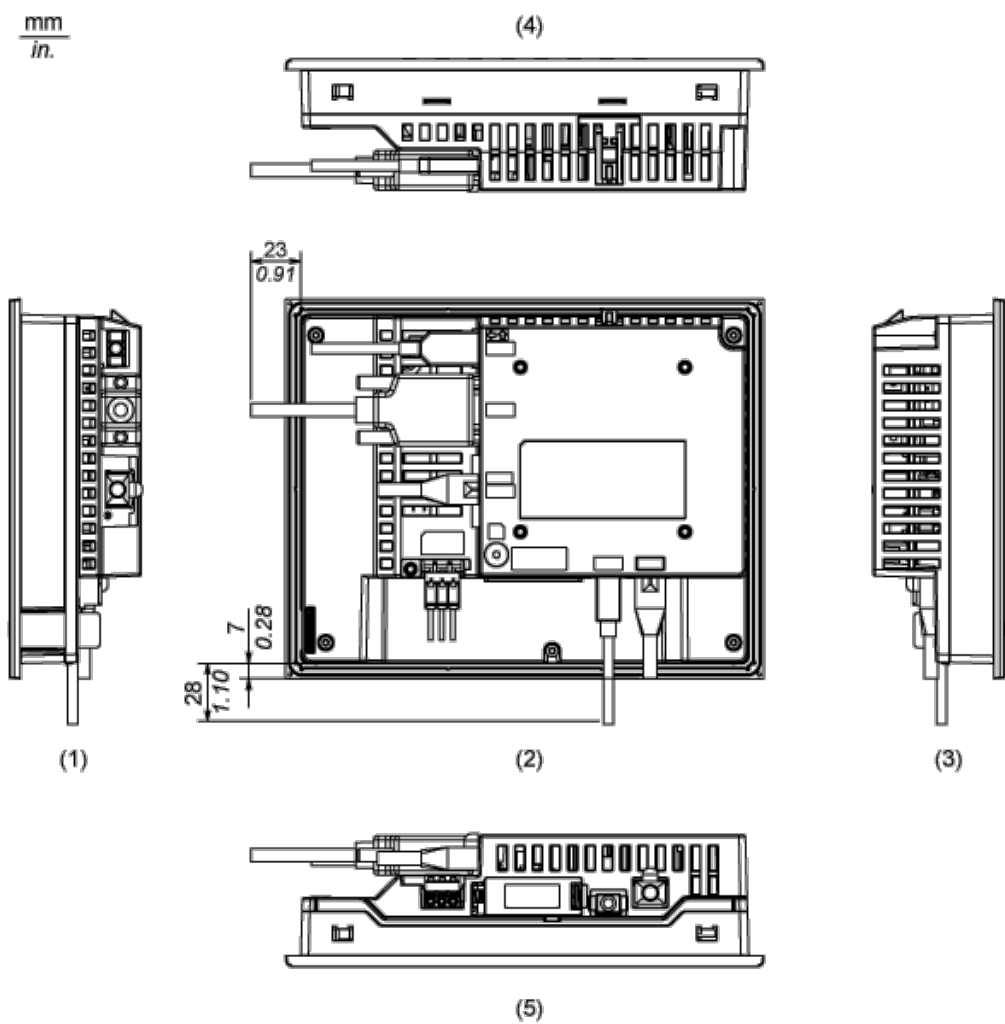
- 1 Front
- 2 Right Side
- 3 Top

Installation with Installation Fasteners



- 1 Left Side
- 2 Front
- 3 Right Side
- 4 Top
- 5 Bottom

Dimensions with Cables



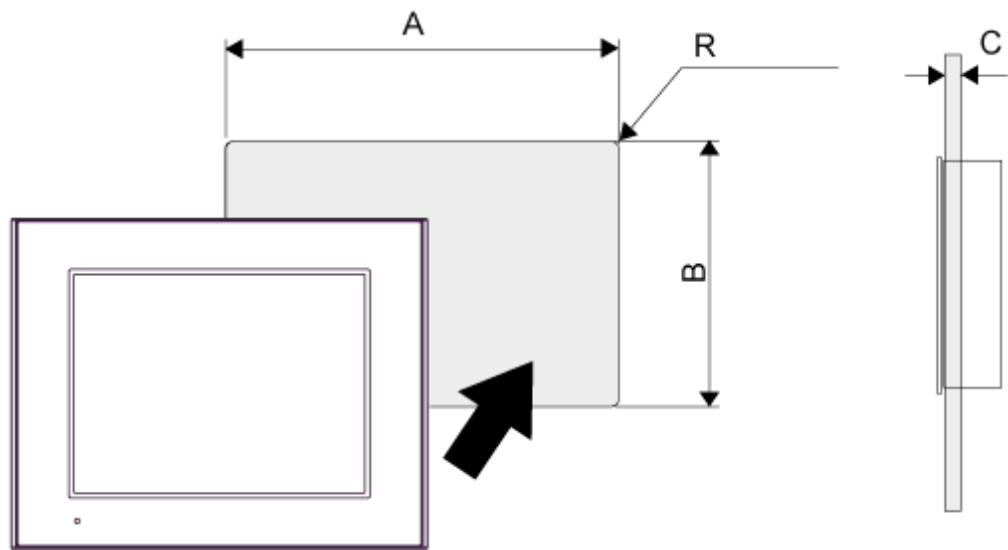
- 1 Left Side
- 2 Rear
- 3 Right Side
- 4 Top
- 5 Bottom



Mounting and Clearance

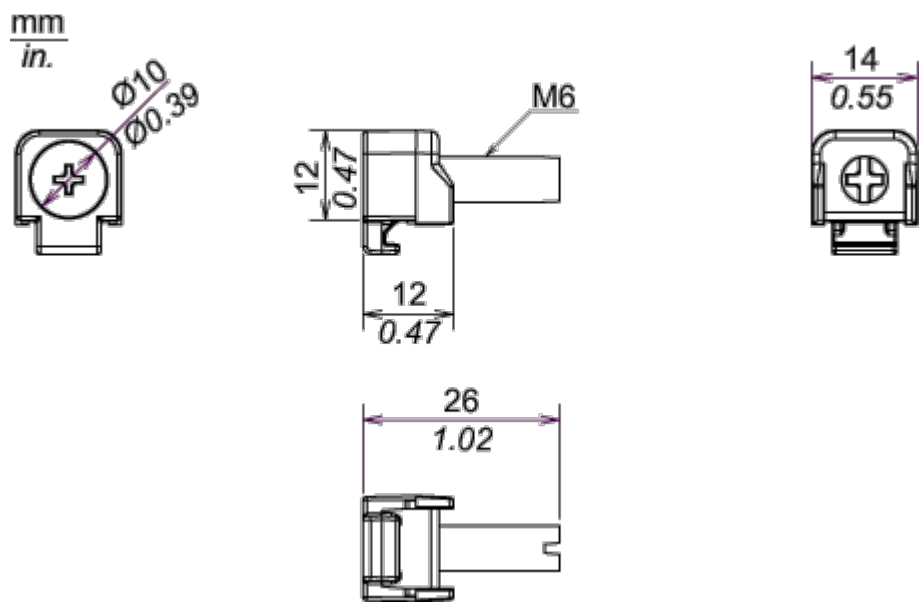
Mounting

Panel Cut Dimensions



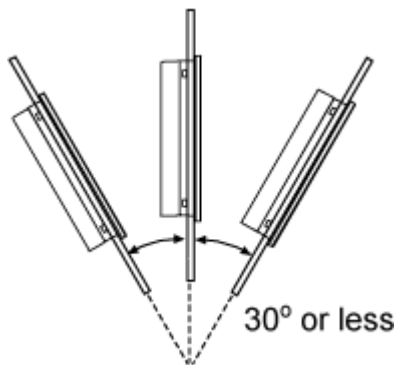
| A              |                  | B              |                  | C       |            | R      |           |
|----------------|------------------|----------------|------------------|---------|------------|--------|-----------|
| mm             | in.              | mm             | in.              | mm      | in.        | mm     | in.       |
| 204.5 (+1, -0) | 8.05 (+0.04, -0) | 159.5 (+1, -0) | 6.28 (+0.04, -0) | 1.6...5 | 0.06...0.2 | 3 max. | 0.12 max. |

Installation Fastener Dimensions



Installation Requirements

Mounting Angle



When installing the panel in a slanted position with an incline more than 30°, the ambient temperature must not exceed 40 °C (104 °F). You may need to use forced air cooling (fan,A/C) to ensure the ambient operating temperature is 40°C or less (104 °F or less).

Clearance

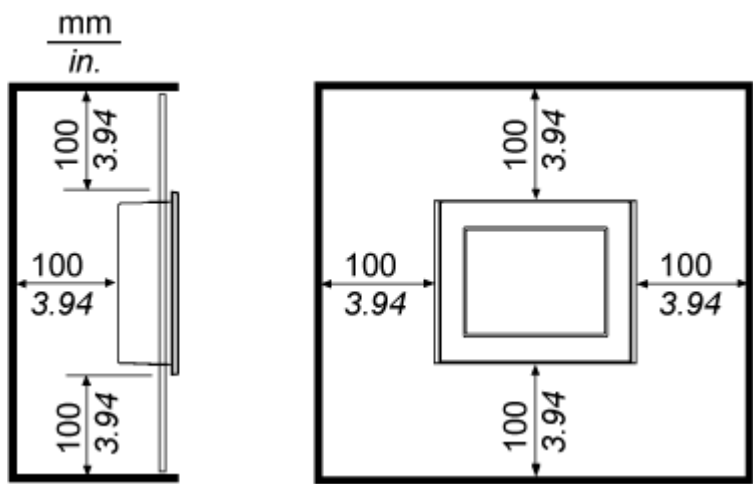


Image of product / Alternate images

Alternative

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