

# ICS50-C100X12-D2,4-TRG-7035 - Upper housing part with touch display



1077656

<https://www.phoenixcontact.com/us/products/1077656>

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DIN rail housing, Upper part, integrated 2.4" resistive touch display, resolution: 320 x 240 Pixel(s), interface: 4-wire SPI half duplex, Housing cover, width: 50.1 mm, height: 100 mm, depth: 14.35 mm



## Your advantages

- Housing system for visualization and operation in the control cabinet
- Coordinated housings with pre-installed touch displays
- Time-saving assembly of ready-to-use modules
- Flexible use, thanks to the modular system and unique modularity in the connection technology
- Standardized connections such as RJ45, USB, D-SUB and antenna sockets as components that can be integrated
- Eight-position DIN rail connectors with parallel and up to two serial contacts for easy module-to-module communication

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1077656       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | AC09          |
| Product key                          | ACHAEI        |
| GTIN                                 | 4055626791609 |
| Weight per piece (including packing) | 44.7 g        |
| Weight per piece (excluding packing) | 33.4 g        |
| Customs tariff number                | 85480090      |
| Country of origin                    | CN            |

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Set consists of

DCT T 2,4 QVGA S RTOUCH - Display

1132710

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Resistive touch display, 2.4", resolution: 320 x 240 pixels, interface: SPI, contrast ratio: 500:1, aspect ratio: 3:4, interface: "4-wire SPI half duplex, Glue and Play solution", suitable for polyamide and polycarbonate



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## Technical data

### Notes

|               |   |
|---------------|---|
| Assembly note | Please observe the application note in the download area. |
|---------------|---|

### Product properties

|                              |                    |
|------------------------------|--------------------|
| Product type                 | Upper housing part |
| Housing type                 | DIN rail housing   |
| Housing series               | ICS                |
| Product family               | ICS50-..100X..     |
| Ventilation openings present | no                 |

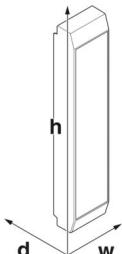
### Display

|                       |   |
|-----------------------|---|
| Display type          | Color display TFT                       |
| Display type          | resistive                               |
| Diagonal              | (Display)<br>2.4 in. / 6.9 cm (Display) |
| Screen resolution     | 320 x 240 Pixel(s) (QVGA)               |
| Display formats       | 3:4                                     |
| Display lighting type | LED, white                              |
| Controller            | ST7789V                                 |

### Interfaces

|           |                        |
|-----------|------------------------|
| Interface | 4-wire SPI half duplex |
|-----------|------------------------|

### Dimensions

|                                 |   |
|---------------------------------|---|
| Dimensional drawing             |  |
| Width                           | 50.1 mm   |
| Height                          | 100 mm  |
| Depth                           | 14.35 mm  |
| Depth from base support surface | 11.9 mm   |
| Dimensions                      | 50.1 mm x 100 mm x 14.35 mm<br>48.96 mm x 36.72 mm (Active range)                   |

### PCB design

|               |                   |
|---------------|-------------------|
| PCB thickness | 1.4 mm ... 1.8 mm |
|---------------|-------------------|

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## Material specifications

|  |                       |
|--|-----------------------|
| Color (Upper housing part)             | light gray (RAL 7035) |
| Material Upper housing part            | PA                    |
| Flammability rating according to UL 94 | V0                    |
| CTI according to IEC 60112             | 600                   |
| Surface characteristics                | untreated             |

## Environmental and real-life conditions

### Vibration test

|                        |                             |
|------------------------|-----------------------------|
| Specification          | IEC 60068-2-6:2007-12       |
| Result                 | Test passed                 |
| Frequency              | 10 - 150 - 10 Hz            |
| Sweep speed            | 1 octave/min                |
| Amplitude              | 0.15 mm (10 Hz ... 58.1 Hz) |
| Acceleration           | 20 m/s <sup>2</sup>         |
| Test duration per axis | 2.5 h                       |
| Test directions        | X-, Y- and Z-axis           |

### Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Specification                  | IEC 60068-2-27:2008-02            |
| Result                         | Test passed                       |
| Acceleration                   | 150 m/s <sup>2</sup>              |
| Shock duration                 | 11 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

### Test for substances that would hinder coating with paint or varnish

|               |                    |
|---------------|--------------------|
| Specification | VDMA 24364:2018-05 |
| Result        | Test passed        |

### Ambient conditions

|   |   |
|---|---|
| Max. IP code to attain                  | IP20  |
| Ambient temperature (operation)         | -20 °C ... 70 °C (depending on power dissipation) |
| Ambient temperature (storage/transport) | -20 °C ... 55 °C                                  |
| Ambient temperature (assembly)          | -5 °C ... 70 °C                                   |
| Relative humidity (storage/transport)   | 80 %  |

## PCB data

|                      |                   |
|----------------------|-------------------|
| Type of PCB mount    | Slot              |
| Thickness of the PCB | 1.4 mm ... 1.8 mm |

## Mounting

|               |         |
|---------------|---------|
| Mounting type | Snap in |
|---------------|---------|

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## Packaging specifications

|                      |                     |
|----------------------|---------------------|
| Type of packaging    | packed in cardboard |
| Outer packaging type | Carton              |

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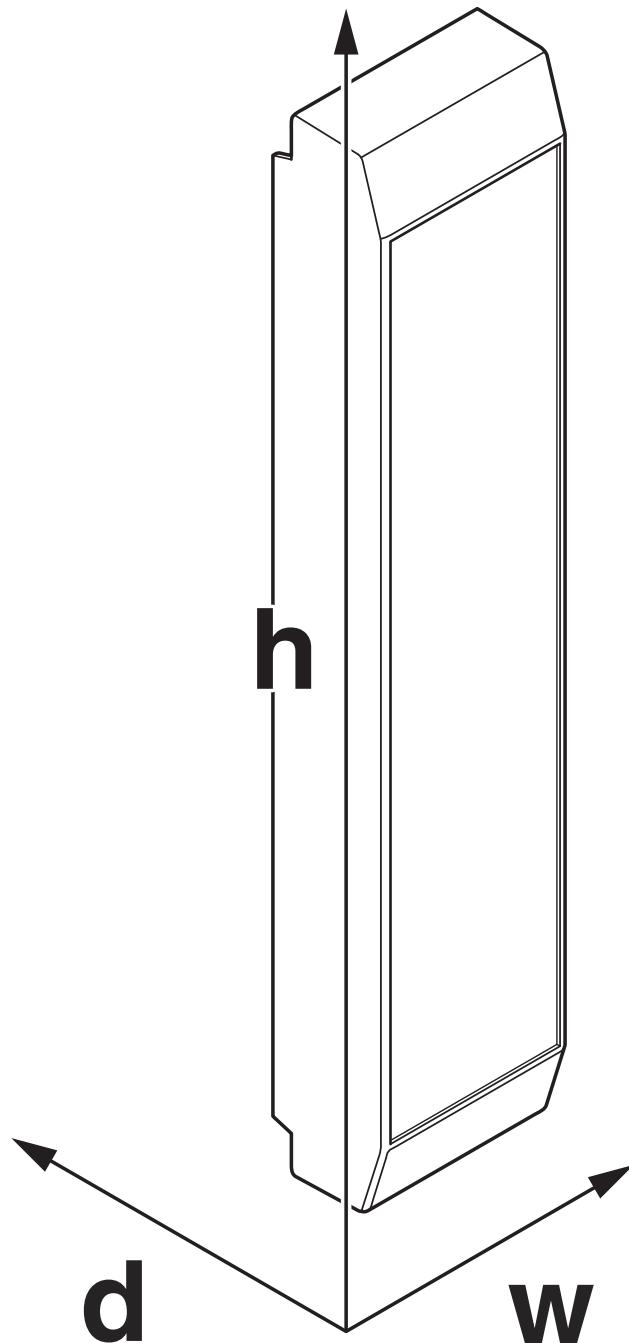


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## Drawings

Dimensional drawing



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1077656>



**UL Recognized**  
Approval ID: E240868

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190603 |
| ECLASS-15.0 | 27190603 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002779 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31261500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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