

# ICS50-B100X98-V-V-5015 - Mounting base housing



1076921

<https://www.phoenixcontact.com/us/products/1076921>

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DIN rail housing, Lower housing part with metal foot catch, Level 1: with vents, width: 50.1 mm, height: 100 mm, depth: 108.35 mm, color: blue (similar RAL 5015), cross connection: DIN rail bus connector (optional), number of positions cross connector: 8

## Your advantages

- 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
- Optimal space utilization, as well as adaptability of design, colors, and printing
- Eight-position DIN rail connectors with parallel and up to two serial contacts for easy module-to-module communication

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1076921       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | AC09          |
| Product key                          | ACHAEB        |
| GTIN                                 | 4055626787350 |
| Weight per piece (including packing) | 67.92 g       |
| Weight per piece (excluding packing) | 48.7 g        |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

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## Technical data

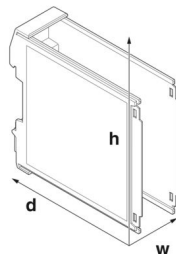
### Notes

|                |                                                                       |
|----------------|-----------------------------------------------------------------------|
| Assembly note  | Please observe the application note in the download area.             |
| Recommendation | Material of contact pads for bus connector, galvanic gold (hard gold) |

### Product properties

|                              |                                        |
|------------------------------|----------------------------------------|
| Product type                 | Lower housing part                     |
| Housing type                 | DIN rail housing                       |
| Housing series               | ICS                                    |
| Product family               | ICS50-..100X..                         |
| Max. number of positions     | 60 (pitch: 3.5 mm)<br>48 (pitch: 5 mm) |
| Number of rows               | 4                                      |
| Number (Connection openings) | 12                                     |
| Ventilation openings present | yes                                    |

### Dimensions

|                                                                |                                                                                                                                                                                      |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                                            |                                                                                                  |
| Width                                                          | 50.1 mm                                                                                                                                                                              |
| Height                                                         | 100 mm                                                                                                                                                                               |
| Depth                                                          | 108.35 mm                                                                                                                                                                            |
| Depth from top edge of DIN rail to support point on upper part | 98.15 mm                                                                                                                                                                             |
| Dimensions                                                     | 50.1 mm x 100 mm x 110 mm (Lower housing part from the top edge of the DIN rail with upper housing part)<br>50.1 mm x 100 mm x 116.7 mm (Lower housing part with upper housing part) |

### PCB design

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

### Material specifications

|                                        |                 |
|----------------------------------------|-----------------|
| Color (Lower housing part)             | blue (RAL 5015) |
| Material Lower 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       |
| Frequency              | 10 - 150 - 10 Hz            |
| Sweep speed            | 1 octave/min                |
| Amplitude              | 0.15 mm (10 Hz ... 58.1 Hz) |
| Acceleration           | 2g (58.1 Hz ... 150 Hz)     |
| Test duration per axis | 2.5 h                       |
| Test directions        | X-, Y- and Z-axis           |

## Glow-wire test

|                  |                        |
|------------------|------------------------|
| Specification    | IEC 60695-2-11:2014-02 |
| Temperature      | 850 °C                 |
| Time of exposure | 30 s                   |

## Thermal stability / ball thrust test

|               |                        |
|---------------|------------------------|
| Specification | IEC 60695-10-2:2014-02 |
| Temperature   | 125 °C                 |
| Test duration | 1 h                    |
| Force         | 20 N                   |

## Mechanical strength / tumbling barrel

|                |                        |
|----------------|------------------------|
| Specification  | IEC 60068-2-31:2008-05 |
| Height of fall | 50 cm                  |
| Frequency      | 50                     |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Specification                  | IEC 60068-2-27:2008-02            |
| Pulse shape                    | Semi-sinusoidal                   |
| Acceleration                   | 15g                               |
| 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        |

## Degree of protection (IP code)

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Specification                         | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
| Result, degree of protection, IP code | IP20                                              |

## Ambient conditions

|                                         |                                                    |
|-----------------------------------------|----------------------------------------------------|
| Max. IP code to attain                  | IP20                                               |
| Ambient temperature (operation)         | -40 °C ... 105 °C (depending on power dissipation) |
| Ambient temperature (storage/transport) | -40 °C ... 55 °C                                   |

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|                                       |                  |
|---------------------------------------|------------------|
| Ambient temperature (assembly)        | -5 °C ... 100 °C |
| Relative humidity (storage/transport) | 80 %             |

## PCB data

|                       |                   |
|-----------------------|-------------------|
| Number of PCB holders | 4                 |
| Type of PCB mount     | Slot              |
| Thickness of the PCB  | 1.4 mm ... 1.8 mm |

## Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

## Packaging specifications

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

## 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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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190601 |
| ECLASS-15.0 | 27190601 |

### 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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