

# MCS-112X90X52-IP6X-7035 - Electronics housing



1524044

<https://www.phoenixcontact.com/us/products/1524044>

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Electronics housing, color: light gray (similar RAL 7035), degree of protection: IP65/67, dimensions: 112 x 90 x 52 mm, includes upper housing part, lower housing part, screws for housing and PCB mounting

## Your advantages

- Convenient operation during device installation and maintenance thanks to optional hinges on the housing cover
- Flexible mounting thanks to the optional adapter plate
- Safe operation with the right degree of protection
- Individualized product selection due to the modular system
- Optimized PCB installation: PCB can be installed in a nearly horizontal orientation thanks to the angled housing edge

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1524044       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | AC04          |
| Product key                          | ACFFAA        |
| GTIN                                 | 4063151989897 |
| Weight per piece (including packing) | 242 g         |
| Weight per piece (excluding packing) | 218.55 g      |
| Customs tariff number                | 84879090      |
| Country of origin                    | DE            |

## Technical data

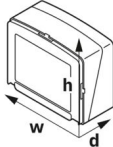
### Notes

|                     |                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Recommendation      | Further information and detailed dimensions are available in the download area.                                                       |
| Recommendation      | Do not stick anything to or damage the DAE membrane.                                                                                  |
| Note on application | We recommend the MCS-H-40-3031 living hinge so the housing parts can be removed without losing them.                                  |
| PCB surface         | The PCB surface specification is for orientation purposes and is based on a basic PCB. The housing can also accommodate several PCBs. |
| Assembly note       | Tighten the mounting screws crosswise.                                                                                                |

### Product properties

|                              |                                           |
|------------------------------|-------------------------------------------|
| Product type                 | Complete housing                          |
| Housing type                 | Field housing                             |
| Housing type                 | Monitoring housings                       |
| Housing series               | MCS                                       |
| Product family               | MCS-112X90                                |
| Ventilation openings present | no                                        |
| Battery compartment          | no                                        |
| Ventilation                  | integrated pressure compensation membrane |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 112 mm                                                                               |
| Height              | 90 mm                                                                                |
| Depth               | 52 mm                                                                                |

### PCB design

|               |                 |
|---------------|-----------------|
| PCB thickness | 0 mm ... 1.8 mm |
|---------------|-----------------|

### Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color (Housing)                        | light gray (RAL 7035) |
| Material Housing                       | PA-GF                 |
| Material Mounting screws               | Stainless steel V2A   |
| Material PCB screw                     | Steel                 |
| Flammability rating according to UL 94 | V0                    |
| CTI according to IEC 60112             | 600                   |

### Environmental and real-life conditions

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## 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 60695-2-11:2021-10 |
| 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      | 10                     |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Specification                  | IEC 60068-2-27:2008-02            |
| Pulse shape                    | Half-sine                         |
| 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 | IP67                                              |

## Ambient conditions

|                                         |                                                   |
|-----------------------------------------|---------------------------------------------------|
| Max. IP code to attain                  | IP65/67                                           |
| Impact strength                         | IK07                                              |
| Ambient temperature (operation)         | -40 °C ... 85 °C (depending on power dissipation) |
| Ambient temperature (storage/transport) | -40 °C ... 55 °C                                  |
| Ambient temperature (assembly)          | -5 °C ... 85 °C                                   |

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|                                       |      |
|---------------------------------------|------|
| Relative humidity (storage/transport) | 80 % |
|---------------------------------------|------|

## PCB data

|                       |                      |
|-----------------------|----------------------|
| Number of PCB holders | 2                    |
| Type of PCB mount     | Bolt mounting        |
| Total PCB surface     | 6700 mm <sup>2</sup> |
| Thickness of the PCB  | 0 mm ... 1.8 mm      |

## Mounting

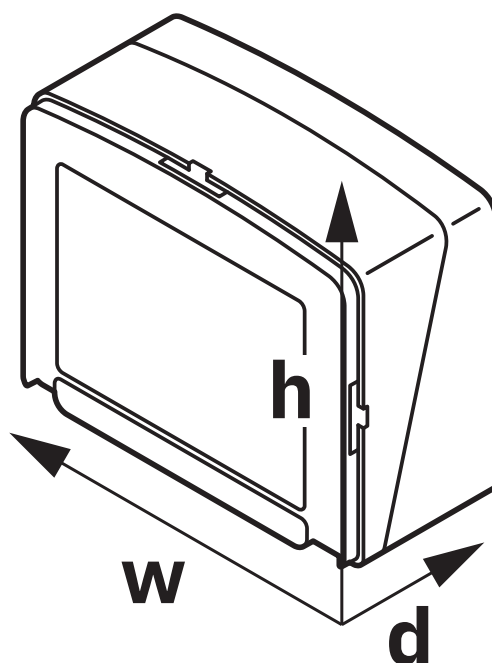
|                                                    |                                              |
|----------------------------------------------------|----------------------------------------------|
| Mounting type                                      | Panel mounting                               |
| Mounting position                                  | any                                          |
| Mounting (Screw connection between housing halves) | 2.2 Nm ... 2.5 Nm (Torx® (TX 20))            |
| Mounting (Mounting the PCB)                        | 0.5 Nm (Torx® with longitudinal slot (TX 7)) |

## Packaging specifications

|                   |               |
|-------------------|---------------|
| Type of packaging | Box packaging |
|-------------------|---------------|

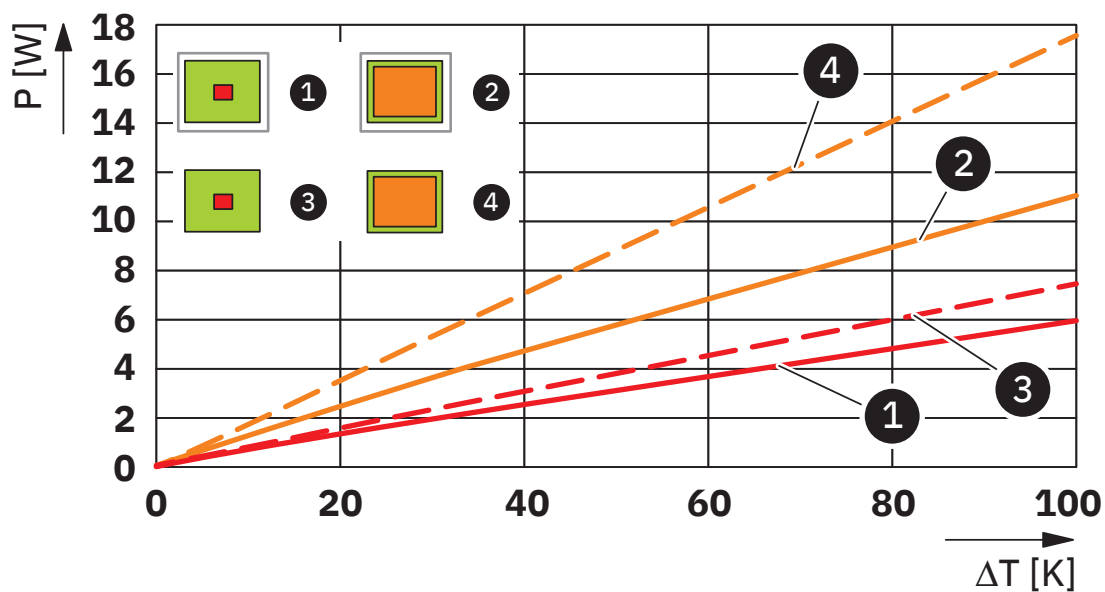
## Drawings

Dimensional drawing



Schematic representation – for additional information, see product range drawing in the Download Center

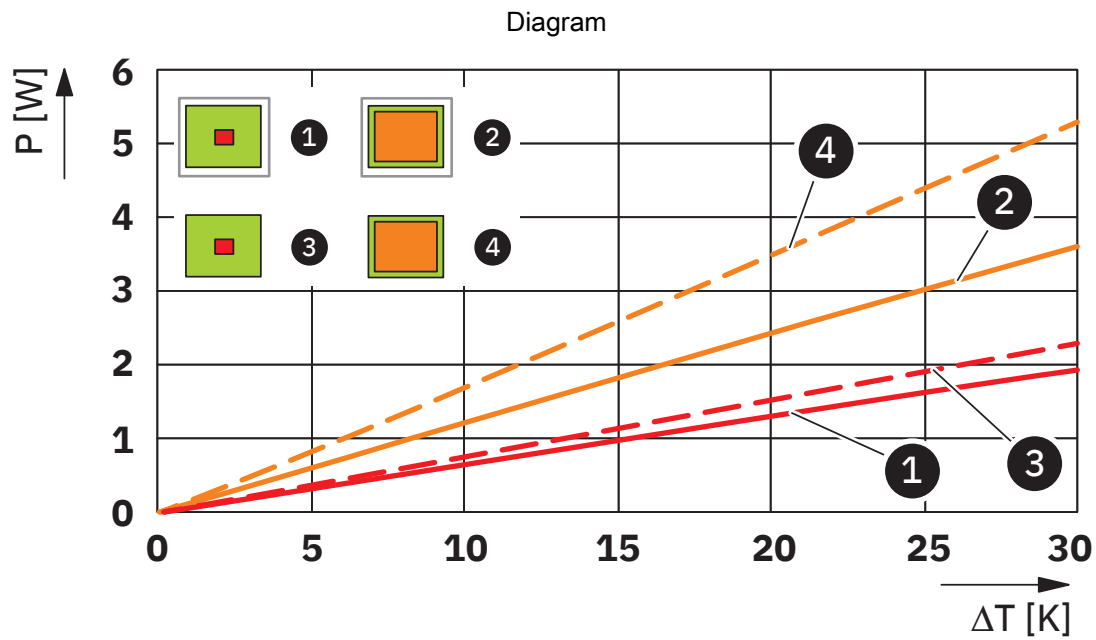
Diagram



Power dissipation diagram for 0 K ... 100 K

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Power dissipation diagram for 0 K ... 30 K

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190103 |
| ECLASS-15.0 | 27190103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001031 |
|-----------|----------|

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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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