

# ECS-B-122X169-S-UV1-V - Electronics housing



2230002

<https://www.phoenixcontact.com/us/products/2230002>

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Vented housing of the ECS range, screw locking mechanism, degree of protection: IP66/IP67/IP68/IP69 when combined with matching front panel, color: black (9005), width: 164 mm, height: 176 mm, depth: 64 mm



## Your advantages

- Housing design supports the installation of a range of PCB thicknesses for high application diversity
- Integrated pressure compensation membrane for fluctuating ambient pressures
- Optional accessories for wall and mast mounting
- Proven PCB connection technology
- Integrated tamper protection
- Effective protection of electronics against thermal and mechanical influences
- Suitable for outdoor/indoor applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2230002       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | AC04          |
| Product key                          | ACFDAA        |
| GTIN                                 | 4055626381350 |
| Weight per piece (including packing) | 261 g         |
| Weight per piece (excluding packing) | 348 g         |
| Customs tariff number                | 84879090      |
| Country of origin                    | US            |

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## Technical data

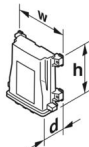
### Notes

|                      |   |
|----------------------|---|
| Assembly note        | Please observe the application note in the download area.   |
| Degree of protection | The specification for IP protection applies to the item combination ECS-B-... in conjunction with an unaltered ECS-P...-B front panel.                            |
| Degree of protection | When using front panels with connection technology, the IP protection class of the connection technology determines the protection class of the overall solution. |
| Recommendation       | Further information and detailed dimensions are available in the download area.   |

### Product properties

|                     |   |
|---------------------|---|
| Product type        | Housing                                   |
| Housing type        | Outdoor housing                           |
| Housing type        | Outdoor housings                          |
| Housing series      | ECS                                       |
| Product family      | ECS..122X..S..                            |
| Battery compartment | no  |
| Ventilation         | integrated pressure compensation membrane |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 164 mm   |
| Height              | 176 mm   |
| Depth               | 64 mm  |

### PCB design

|               |                     |
|---------------|---------------------|
| PCB thickness | 1.57 mm ... 2.36 mm |
|---------------|---------------------|

### Material specifications

|  |                  |
|--|------------------|
| Color (Housing)                        | black (RAL 9005) |
| Material Housing                       | PC               |
| Flammability rating according to UL 94 | V0               |

### Environmental and real-life conditions

#### Vibration test

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency     | 10 - 2000 - 10 Hz     |
| Sweep speed   | 1 octave/min          |

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|                        |                           |
|------------------------|---------------------------|
| Acceleration           | 15g (61.6 Hz ... 2000 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                   |

## 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                   | 50g                               |
| Shock duration                 | 11 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

## Salt spray test

|               |                           |
|---------------|---------------------------|
| Specification | DIN EN 60068-2-11:2000-02 |
| Test duration | 96 h                      |

## 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 | IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K |

## Ambient conditions

|   |                   |
|---|-------------------|
| Max. IP code to attain                  | IP69              |
| Max. NEMA code to attain                | 6                 |
| Impact strength                         | IK08              |
| Ambient temperature (operation)         | -40 °C ... 100 °C |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |

## PCB data

|                       |                     |
|-----------------------|---------------------|
| Number of PCB holders | 1                   |
| Type of PCB mount     | Bolt mounting       |
| Thickness of the PCB  | 1.57 mm ... 2.36 mm |

## Mounting

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|               |   |
|---------------|---|
| Mounting type | Wall or panel mount. Pole mount with accessory. |
|---------------|---|

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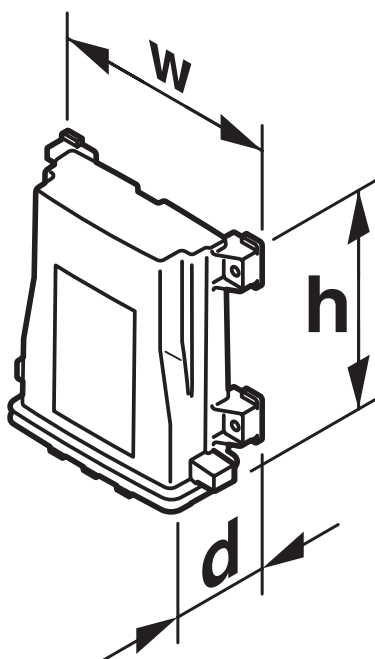
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## Drawings

Dimensional drawing



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## Classifications

### ECLASS

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

### ETIM

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