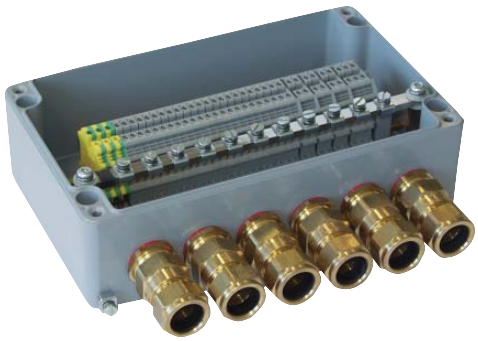


## Description

Aluminium distribution boxes have proven to be an excellent solution for encapsulating and shielding components and modules in electronic and pneumatic engineering. Bottom and lid of the distribution boxes come with earthing screws for the connecting of the protective conductor. Mounting threads in the bottom section, fixing holes outside of the sealed space.

The same high quality explosion-proofed enclosures are used in hazardous areas by inflammable dust (Zone 21 and 22). By means of the heating calculation according to the supplement to the test certificate and a separate IP-protection test, the basic requirements of the "protection through enclosure" type of protection are met.

# *Aluminium distribution boxes*

**Installation instructions**
The installer must make sure that the enclosure used is suitable for the corresponding field of application. This means that the marking must correspond to the classification of the Ex area. Also must the temperature class of the distribution box meet the respective requirements.

| | | |
|---|---|---|
| *IP distribution box* | | *07-5172-..../....* |
| *Ex e distribution box* | ***grey*** | *07-5101-..../....* |
| *Ex i distribution box* | | *07-5102-..../....* |

## Explosion protection

| | |
|---|---|
| **Ex protection type** | Ⓔx II 2G Ex e II T6 resp. T5<br>Ⓔx II 2G Ex ia IIC T6 resp. T5<br>Ⓔx II 2D Ex tD A21 IP6x T 80 °C |
| **Ambient temperature range**<br>(special temperature range on request) | -55 °C to +40 °C at T6<br>-55 °C to +55 °C at T5 |
| **Certification**<br>for Zone 21 and Zone 22<br>(further certifications on request) | PTB 08 ATEX 1065<br>IBExU00ATEX1080 |
| Germanischer LLoyd (Germany)<br>Gost-R (Russia)<br>RTN (Russia)<br>NEPSI (China) | 30 584-83 HH<br>POCC SI.ME 92.BO1671<br>PPC 00-33604<br>GYJ05305 |

## Technical data

| | |
|---|---|
| **Material** | aluminium, die or shell casting,<br>AlSi 12, Mg < 6 thread -% |
| **Colour/coating** | RAL 7001, silver grey<br>special varnish and seawater-resistant varnish on request |
| **Lid screws**<br>(other models on request) | stainless steel, captive,<br>cross-head (+ -) |
| **Standard seals**<br>optional | CR -20 °C to +80 °C<br>silicone -55 °C to +100 °C |
| **Mechanical resistance**<br>(according to EN 60079-0) | impact energy 7 Nm |
| **Protection class** EN 60529/IEC 60529 | IP 66 |
| **Rated voltage** | max. 1 100 V |

## Aluminum distribution boxes

**Rail-mounted terminals/maximum number**

The table on this page applies to the following aluminium distribution boxes:

*IP distribution box* *07-51**72**-..../....*
*Ex e distribution box* *07-51**01**-..../....*
*Ex i distribution box* *07-51**02**-..../....*

| **Article no.** Aluminium enclosure | **Mini-terminal** 07-7902-.... | | **AKZ4** 03-7112-0008 | | **WDU 2.5** 03-7111-0012 | | **WDU 2.5 bl** 03-7111-0012 | | **WDU 4** 03-7112-0015 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | mounting rail | Terminals per rail | mounting rail | Terminals per rail | mounting rail | Terminals per rail | mounting rail | Terminals per rail | mounting rail | Terminals per rail |
| 07- □□□□ -0580/6436 | - | 3 | - | - | - | - | - | - | - | - |
| 07- □□□□ -0980/6436 | - | 7 | - | - | - | - | - | - | - | - |
| 07- □□□□ -1500/6436 | - | 11 | - | - | - | - | - | - | - | - |
| 07- □□□□ -0750/8057 | 1 | 5 | 1 | 7 | - | - | - | - | - | - |
| 07- □□□□ -1250/8057 | 1 | 10 | 1 | 16 | - | - | - | - | - | - |
| 07- □□□□ -1750/8057 | 1 | 14 | 1 | 22 | - | - | - | - | - | - |
| 07- □□□□ -1221/2080 | 2 | 8 | 1 | 14 | - | - | 1 | 16 | - | - |
| 07- □□□□ -1221/2090 | 2 | 8 | 1 | 14 | - | - | 1 | 16 | - | - |
| 07- □□□□ -2201/2080 | 2 | 17 | 1 | 30 | - | - | 1 | 35 | - | - |
| 07- □□□□ -2201/2090 | 2 | 17 | 1 | 30 | - | - | 1 | 35 | - | - |
| 07- □□□□ -3601/2080 | - | - | - | - | 1 | 60 | 1 | 60 | 1 | 49 |
| 07- □□□□ -1601/6090 | - | - | 2 | 18 | 1 | 24 | 1 | 23 | 1 | 20 |
| 07- □□□□ -2601/6090 | - | - | 2 | 34 | 1 | 43 | 1 | 42 | 1 | 34 |
| 07- □□□□ -3601/6090 | - | - | - | - | 1 | 60 | 1 | 62 | 1 | 50 |
| 07- □□□□ -5601/6090 | - | - | - | - | 1 | 98 | 1 | 102 | 1 | 85 |
| 07- □□□□ -2002/3011 | - | - | 3 | 25 | 2 | 30 | 3 | 30 | 2 | 25 |
| 07- □□□□ -2802/3011 | - | - | - | - | 2 | 44 | 3 | 44 | 2 | 38 |
| 07- □□□□ -3302/3011 | - | - | - | - | 2 | 56 | 3 | 53 | 2 | 46 |
| 07- □□□□ -4002/3011 | - | - | - | - | 2 | 70 | 3 | 68 | 2 | 58 |
| 07- □□□□ -6002/3011 | - | - | - | - | 2 | 108 | 2 | 109 | 1 | 90 |
| 07- □□□□ -4003/1011 | - | - | - | - | 3 | 70 | 4 | 68 | 2 | 58 |
| 07- □□□□ -6003/1011 | - | - | - | - | 2 | 110 | 3 | 110 | 2 | 91 |

## Aluminum distribution boxes

**External dimensions, earth bars, mounting plates**

The table on this page applies to the following aluminium distribution boxes:

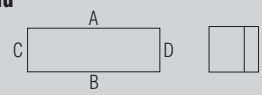
*IP distribution box* *07-5172-..../....*
*Ex e distribution box* *07-5101-..../....*
*Ex i distribution box* *07-5102-..../....*

| **Article no.** Aluminium-Gehäuse | **External dimensions in mm** | | | **Earth bars/Mantle terminal** | | | | **Mounting panel** |
|---|---|---|---|---|---|---|---|---|
| | Length | Width | Height | Type | **Order no.** | Type | **Order no.** | **Order no.** |
| 07- □□□ -0580/6436 | 58 | 64 | 36 | SB 2 | **05-0012-0002** | - | - | **05-2105-0094** |
| 07- □□□ -0980/6436 | 98 | 64 | 36 | SB 2 | **05-0012-0002** | - | - | **05-2105-0095** |
| 07- □□□ -1500/6436 | 150 | 64 | 36 | SB 2 | **05-0012-0002** | - | - | **05-2105-0096** |
| 07- □□□ -0750/8057 | 75 | 80 | 57 | SB 2 | **05-0012-0002** | - | - | **05-2105-0097** |
| 07- □□□ -1250/8057 | 125 | 80 | 57 | SB 2 | **05-0012-0002** | - | - | **05-0105-0098** |
| 07- □□□ -1750/8057 | 175 | 80 | 57 | SB 2 | **05-0012-0002** | LS 4 | - | **05-0105-0099** |
| 07- □□□ -1221/2080 | 122 | 120 | 80 | QS 3 | **05-0012-0002** | LS 4 | **05-0012-0100** | **05-0105-0100** |
| 07- □□□ -1221/2090 | 122 | 120 | 90 | QS 3 | **05-0012-0002** | LS 9 | **05-0012-0100** | **05-0105-0100** |
| 07- □□□ -2201/2080 | 220 | 120 | 80 | QS 3 | **05-0012-0091** | LS 5 | **05-0012-0101** | **05-0105-0101** |
| 07- □□□ -2201/2090 | 220 | 120 | 90 | QS 3 | **05-0012-0091** | LS 5 | **05-0012-0101** | **05-0105-0101** |
| 07- □□□ -3601/2080 | 360 | 120 | 80 | QS 3 | **05-0012-0091** | LS 11 | **05-0012-0103** | **05-0105-0102** |
| 07- □□□ -1601/6090 | 160 | 160 | 90 | QS 5 | **05-0012-0092** | LS 16 | **05-0012-0010** | **05-0105-0103** |
| 07- □□□ -2601/6090 | 260 | 160 | 90 | QS 5 | **05-0012-0092** | LS 11 | **05-0012-0012** | **05-0105-0106** |
| 07- □□□ -3601/6090 | 360 | 160 | 90 | QS 5 | **05-0012-0092** | LS 11 | **05-0012-0014** | **05-0105-0105** |
| 07- □□□ -5601/6090 | 560 | 160 | 90 | QS 5 | **05-0012-0092** | LS 18 | **05-0012-0107** | **05-0105-0107** |
| 07- □□□ -2002/3011<br>07- □□□ -2002/3018 | 200 | 230 | 110 | QS 7 | **05-0012-0098** | LS 18 | **05-0012-0108** | **05-0105-0108** |
| 07- □□□ -2802/3011 | 280 | 230 | 110 | QS 7 | **05-0012-0098** | LS 18 | **05-0012-0109** | **05-0105-0109** |
| 07- □□□ -3302/3011<br>07- □□□ -3302/3018 | 330 | 230 | 110 | QS 7 | **05-0012-0098** | LS 18 | **05-0012-0110** | **05-0105-0110** |
| 07- □□□ -4002/3011 | 400 | 230 | 110 | QS 7 | **05-0012-0098** | LS 28 | **05-0012-0016** | **05-0105-0111** |
| 07- □□□ -6002/3011 | 600 | 230 | 110 | QS 7 | **05-0012-0098** | LS 28 | **05-0012-0111** | **05-0105-0112** |
| 07- □□□ -4003/1011<br>07- □□□ -4002/1018 | 400 | 310 | 110 | QS 13 | **05-0012-0099** | LS 28 | **05-0012-0016** | **05-0105-0115** |
| 07- □□□ -6003/1011<br>07- □□□ -6003/1018 | 600 | 310 | 110 | QS 13 | **05-0012-0099** | LS 28 | **05-0012-0111** | **05-0105-0116** |

**QS** = diagonal strip/horizontal alignment, e.g.: LS 4 = 4 clamping points for 8 connections **LS** = horizontal strip/vertical strip, e.g.: QS 3 = 3 clamping points for 6.

## Aluminum distribution box with lid

**Cable glands/ maximum number**




The table on this page applies to the following aluminium distribution boxes with lid:

| | |
|---|---|
| *IP distribution box* | *07-51**72**-..../....* |
| *Ex e distribution box* | *07-51**01**-..../....* |
| *Ex i distribution box* | *07-51**02**-..../....* |

| **Article no.** Aluminium enclosure | **Side** | **M12 x 1.5** | **M16x 1.5** | **M16 x 1.5 extended** | **M20 x 1.5** | **M20 x 1.5 extended** | **M25 x 1.5** | **M32 x 1.5** | **M40 x 1.5** | **M50 x 1.5** | **M63 x 1.5** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 07- □□□□ -0580/6436 | A/B | 1 | 1 | 1 | - | - | - | - | - | - | - |
| | C/D | - | - | - | - | - | - | - | - | - | - |
| 07- □□□□ -0980/6436 | A/B | 3 | 3 | 3 | - | - | - | - | - | - | - |
| | C/D | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 07- □□□□ -1500/6436 | A/B | 6 | 5 | 4 | - | - | - | - | - | - | - |
| | C/D | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 07- □□□□ -0750/8057 | A/B | 5 | 3 | 2 | 2 | 1 | 1 | - | - | - | - |
| | C/D | 2 | 2 | 2 | 1 | - | - | - | - | - | - |
| 07- □□□□ -1250/8057 | A/B | 9 | 6 | 4 | 3 | 3 | 2 | - | - | - | - |
| | C/D | 2 | 2 | 2 | 1 | 1 | - | - | - | - | - |
| 07- □□□□ -1750/8057 | A/B | 14 | 9 | 6 | 5 | 4 | 3 | - | - | - | - |
| | C/D | 2 | 2 | 2 | 1 | 1 | - | - | - | - | - |
| 07- □□□□ -1221/2080 | A/B | 12 | 10 | 6 | 6 | 5 | 3 | 2 | 1 | 1 | 1 |
| | C/D | 4 | 4 | 3 | 2 | 2 | 1 | 1 | - | - | - |
| 07- □□□□ -1221/2090 | A/B | 12 | 9 | 6 | 5 | 4 | 2 | 1 | 1 | 1 | 1 |
| | C/D | 4 | 4 | 2 | 2 | 2 | - | - | - | - | - |
| 07- □□□□ -2201/2080 | A/B | 27 | 17 | 12 | 11 | 10 | 5 | 3 | 3 | 2 | 2 |
| | C/D | 4 | 4 | 3 | 2 | 2 | 1 | 1 | - | - | - |
| 07- □□□□ -2201/2090 | A/B | 27 | 17 | 12 | 11 | 10 | 5 | 3 | 3 | 2 | 1 |
| | C/D | 4 | 4 | 2 | 2 | 2 | - | - | - | - | - |
| 07- □□□□ -3601/2080 | A/B | 48 | 30 | 22 | 21 | 18 | 9 | 6 | 5 | - | - |
| | C/D | 4 | 4 | 4 | 2 | 2 | 1 | 1 | - | - | - |
| 07- □□□□ -1601/6090 | A/B | 18 | 14 | 8 | 8 | 6 | 4 | 2 | 1 | 1 | 1 |
| | C/D | 8 | 8 | 5 | 4 | 4 | 2 | - | - | - | - |
| 07- □□□□ -2601/6090 | A/B | 33 | 26 | 17 | 14 | 12 | 7 | 4 | 3 | 3 | 2 |
| | C/D | 8 | 8 | 5 | 4 | 4 | 2 | - | - | - | - |
| 07- □□□□ -3601/6090 | A/B | 48 | 38 | 24 | 20 | 18 | 10 | 6 | 5 | 4 | 3 |
| | C/D | 8 | 8 | 5 | 4 | 4 | 2 | - | - | - | - |
| 07- □□□□ -5601/6090 | A/B | 84 | 60 | 42 | 34 | 28 | 20 | 10 | 8 | 6 | 4 |
| | C/D | 8 | 8 | 5 | 4 | 4 | 2 | - | - | - | - |
| 07- □□□□ -2002/3011 | A/B | 38 | 24 | 16 | 15 | 12 | 8 | 5 | 3 | 2 | 2 |
| | C/D | 20 | 15 | 10 | 10 | 6 | 4 | 3 | 2 | 2 | 1 |
| 07- □□□□ -2002/3018 | A/B | 64 | 36 | 25 | 25 | 16 | 16 | 9 | 4 | 4 | 4 |
| | C/D | 56 | 42 | 25 | 25 | 16 | 16 | 9 | 4 | 4 | 4 |
| 07- □□□□ -2802/3011 | A/B | 58 | 30 | 25 | 23 | 20 | 11 | 8 | 4 | 3 | 2 |
| | C/D | 20 | 15 | 10 | 10 | 6 | 4 | 3 | 2 | 2 | - |
| 07- □□□□ -3302/3011 | A/B | 70 | 46 | 30 | 28 | 24 | 14 | 10 | 5 | 4 | 2 |
| | C/D | 20 | 15 | 10 | 10 | 6 | 4 | 3 | 2 | 2 | 1 |
| 07- □□□□ -3302/3018 | A/B | 120 | 72 | 50 | 45 | 32 | 28 | 18 | 8 | 8 | 6 |
| | C/D | 56 | 36 | 25 | 25 | 16 | 12 | 9 | 4 | 4 | 4 |
| 07- □□□□ -4002/3011 | A/B | 58 | 56 | 38 | 35 | 30 | 17 | 12 | 6 | 4 | 3 |
| | C/D | 20 | 15 | 10 | 10 | 6 | 4 | 3 | 2 | 2 | 1 |
| 07- □□□□ -6002/3011 | A/B | 126 | 84 | 56 | 52 | 46 | 24 | 18 | 8 | 6 | 4 |
| | C/D | 25 | 15 | 10 | 10 | 6 | 4 | 3 | 2 | 2 | 1 |
| 07- □□□□ -4003/1011 | A/B | 85 | 56 | 38 | 35 | 30 | 17 | 12 | 6 | 4 | 3 |
| | C/D | 30 | 25 | 20 | 18 | 10 | 5 | 4 | 2 | 2 | 1 |
| 07- □□□□ -4003/1018 | A/B | 144 | 90 | 65 | 60 | 44 | 36 | 21 | 12 | 10 | 8 |
| | C/D | 84 | 60 | 45 | 40 | 28 | 24 | 15 | 8 | 6 | 6 |
| 07- □□□□ -6003/1011 | A/B | 126 | 84 | 56 | 52 | 46 | 24 | 18 | 8 | 6 | 4 |
| | C/D | 30 | 25 | 20 | 18 | 10 | 5 | 4 | 2 | 2 | 1 |
| 07- □□□□ -6003/1018 | A/B | 208 | 132 | 90 | 90 | 80 | 56 | 30 | 16 | 16 | 12 |
| | C/D | 84 | 60 | 45 | 40 | 28 | 18 | 15 | 8 | 6 | 6 |

Each enclosure side wall has only a limited number of gland entries to ensure the mechanical stability of the enclosure.