



**BOPLA**

A Phoenix Mecano Company

# Bocube





# Bocube

Unique, innovative, versatile enclosure made of ABS or polycarbonate UL 94 V0

- 11 sizes, 66 standard combinations possible
- 2 material types: ABS or PC UL 94 V0, flame-resistant and self-extinguishing
- Captive lid with membrane keypad area, available in 2 variants: gray or crystal-clear
- Patented, innovative, hinged quick-release catch technology: open with a screwdriver, close by hand
- Elegant design, hinged quick-release catches available in different colors
- Mounting space for rectangular front panels and rectangular, grooved PCBs
- Excellent recyclability because of mono-material plastics without injection-molded metal parts
- Selection of the hinged side by means of blanking plugs (available as accessory)
- Comprehensive range of accessories
- Terminals and mounting on request



|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Color</b>              | Graphite gray, similar to RAL 7024; light gray, similar to RAL 7035; special colors on request                       |
| <b>Protection class</b>   | IP 66/IP 67 DIN EN 60529                                                                                             |
| <b>Enclosure material</b> | ABS or PC UL 94 V0, foamed seal; for details, please see Technical Information in our main catalogue, "the red book" |





In the lid the enclosures have an area recessed by 2 mm for the mounting of membrane keypads (exception: B 080805, 0.5 mm).



By using the hinged quick-release catch, the enclosures can easily be closed by hand – use a standard screwdriver to open (size 3).



Instead of the hinged quick-release catch, the enclosures can be screwed – suitable screws are available as accessories and are concealed by the hinged catch.



The hinged quick-release catch ensures that the lid cannot be lost.



With the hinged quick-release catch, the lid can be opened to the left or right, as required. This simplifies mounting, and allows access to the electronics even during later use.



The blanking plugs allow the hinged side to be selected as required.



The Bocube with a PC UL 94 V0 crystal-clear lid is ideal for use as a display enclosure because it provides a permanent view of the front panel.



Rectangular front panels can be mounted in the base by using distance bolts.



Bocube is a mono-material plastic enclosure, so it is especially suitable for recycling.



There are very few parts, so this series of enclosures is very easy to assemble.



Bocube has a rectangular mounting space for grooved PCBs and rectangular mounting panels. These can be mounted in the lid and the base.



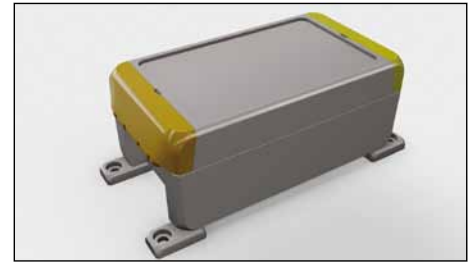
Large areas guarantee enough space for the mounting of cable glands, D-sub-connectors, etc.



A lead seal can be fitted and protects against unauthorized access. We can supply lead seals on request.



Colored catches can be matched to the customer's designs.



The wall brackets can be used for all Bocube sizes. They are screwed to the drill holes in the base of enclosure and are available in both enclosure colors.

## Application example

of our comprehensive range of services for Bocube.



### Mechanical processing:

Milling, drilling, countersinking, thread cutting, punching, ultrasonic welding of individual mounting points

### Mounting work:

Mounting of cable glands, battery compartments  
Mounting of threaded bushings, bolts and conductive seals

### Gluing work:

Insertion using supplied components, wiring

### Soldering and assembly work

**This is only a small selection of our comprehensive range of services, with which we manufacture individual products of excellent quality.**

You will find more information in the introduction to our „the red book“ catalog.



# Bocube

## Bocube enclosures, polycarbonate UL 94 V0

| Model                 | Order no. | A   | B   | C  | a1  | a2    | b1  | b2    | c1   | Color                            |
|-----------------------|-----------|-----|-----|----|-----|-------|-----|-------|------|----------------------------------|
| B 080805 PC-V0 7024   | 96011114  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Graphite gray                    |
| B 080805 PC-V0 7035   | 96011115  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Light gray                       |
| B 080805 PC-V0-G 7024 | 96021114  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Graphite gray, crystal-clear lid |
| B 080805 PC-V0-G 7035 | 96021115  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Light gray, crystal-clear lid    |
| B 100806 PC-V0 7024   | 96012124  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Graphite gray                    |
| B 100806 PC-V0 7035   | 96012125  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Light gray                       |
| B 100806 PC-V0-G 7024 | 96022124  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Graphite gray, crystal-clear lid |
| B 100806 PC-V0-G 7035 | 96022125  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Light gray, crystal-clear lid    |
| B 100809 PC-V0 7024   | 96012134  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Graphite gray                    |
| B 100809 PC-V0 7035   | 96012135  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Light grey                       |
| B 100809 PC-V0-G 7024 | 96022134  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Graphite gray, crystal-clear lid |
| B 100809 PC-V0-G 7035 | 96022135  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Light gray, crystal-clear lid    |
| B 140806 PC-V0 7024   | 96013124  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Graphite gray                    |
| B 140806 PC-V0 7035   | 96013125  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Light gray                       |
| B 140806 PC-V0-G 7024 | 96023124  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Graphite gray, crystal-clear lid |
| B 140806 PC-V0-G 7035 | 96023125  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Light gray, crystal-clear lid    |
| B 140809 PC-V0 7024   | 96013134  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Graphite gray                    |
| B 140809 PC-V0 7035   | 96013135  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Light gray                       |
| B 140809 PC-V0-G 7024 | 96023134  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Graphite gray, crystal-clear lid |
| B 140809 PC-V0-G 7035 | 96023135  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Light gray, crystal-clear lid    |
| B 141306 PC-V0 7024   | 96013224  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Graphite gray                    |
| B 141306 PC-V0 7035   | 96013225  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Light grey                       |
| B 141306 PC-V0-G 7024 | 96023224  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Graphite gray, crystal-clear lid |
| B 141306 PC-V0-G 7035 | 96023225  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Light grey, crystal-clear lid    |
| B 141309 PC-V0 7024   | 96013234  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Graphite gray                    |
| B 141309 PC-V0 7035   | 96013235  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Light gray                       |
| B 141309 PC-V0-G 7024 | 96023234  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Graphite gray, crystal-clear lid |
| B 141309 PC-V0-G 7035 | 96023235  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Light gray, crystal-clear lid    |
| B 221306 PC-V0 7024   | 96015224  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Graphite gray                    |
| B 221306 PC-V0 7035   | 96015225  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Light gray                       |

# Bocube



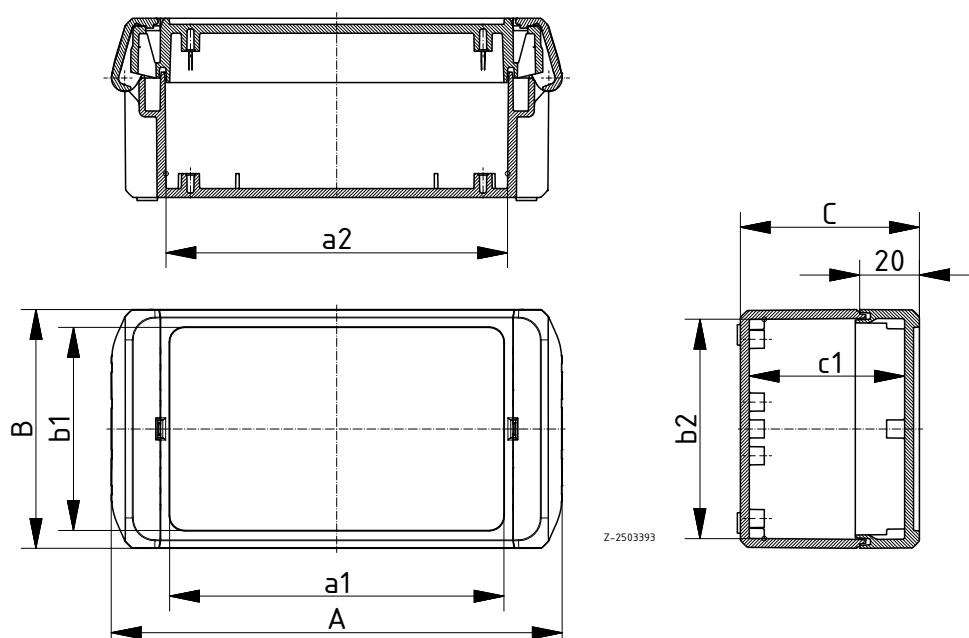
## Bocube enclosures, polycarbonate UL 94 V0

| Model                 | Order no. | A   | B   | C  | a1  | a2    | b1  | b2    | c1   | Color                            |
|-----------------------|-----------|-----|-----|----|-----|-------|-----|-------|------|----------------------------------|
| B 221306 PC-V0-G 7024 | 96025224  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Graphite gray, crystal-clear lid |
| B 221306 PC-V0-G 7035 | 96025225  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Light gray, crystal-clear lid    |
| B 221309 PC-V0 7024   | 96015234  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Graphite gray                    |
| B 221309 PC-V0 7035   | 96015235  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Light gray                       |
| B 221309 PC-V0-G 7024 | 96025234  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Graphite gray, crystal-clear lid |
| B 221309 PC-V0-G 7035 | 96025235  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Light gray, crystal-clear lid    |
| B 261706 PC-V0 7024   | 96016324  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Graphite gray                    |
| B 261706 PC-V0 7035   | 96016325  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Light gray                       |
| B 261706 PC-V0-G 7024 | 96026324  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Graphite gray, crystal-clear lid |
| B 261706 PC-V0-G 7035 | 96026325  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Light gray, crystal-clear lid    |
| B 261709 PC-V0 7024   | 96016334  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Graphite gray                    |
| B 261709 PC-V0 7035   | 96016335  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Light gray                       |
| B 261709 PC-V0-G 7024 | 96026334  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Graphite gray, crystal-clear lid |
| B 261709 PC-V0-G 7035 | 96026335  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Light gray, crystal-clear lid    |

Scope of delivery: Lid and base, hinged quick-release catches

Note: G = Model with crystal clear lid.

For accessories, see following pages.





## Bocube

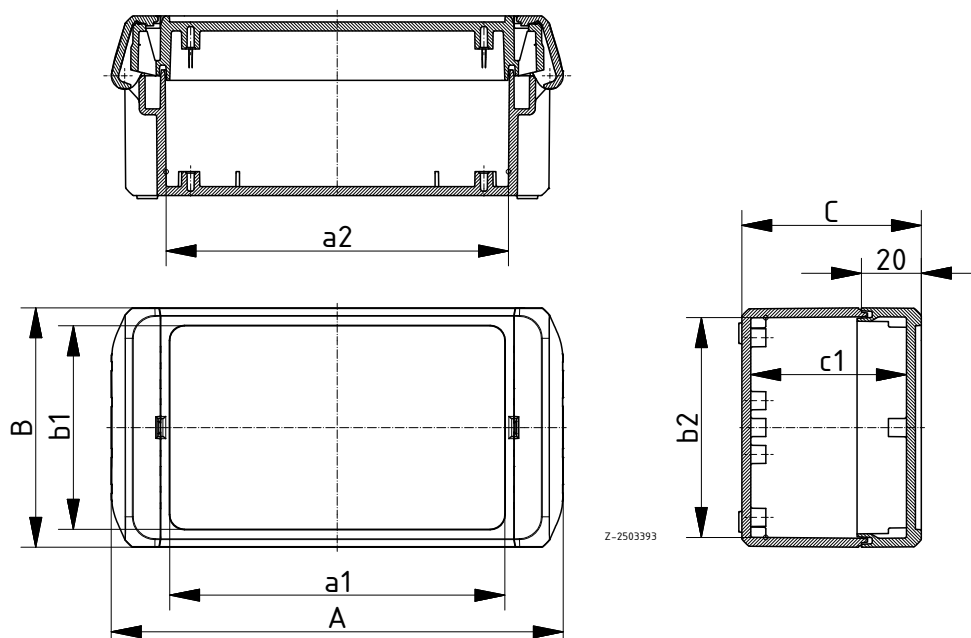
### Bocube enclosures, ABS

| Model             | Order no. | A   | B   | C  | a1  | a2    | b1  | b2    | c1   | Color         |
|-------------------|-----------|-----|-----|----|-----|-------|-----|-------|------|---------------|
| B 080805 ABS 7024 | 96031114  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Graphite gray |
| B 080805 ABS 7035 | 96031115  | 89  | 80  | 47 | 50  | 52,6  | 68  | 73,6  | 40,5 | Light gray    |
| B 100806 ABS 7024 | 96032124  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Graphite gray |
| B 100806 ABS 7035 | 96032125  | 113 | 80  | 60 | 74  | 76,4  | 68  | 73,4  | 52   | Light gray    |
| B 100809 ABS 7024 | 96032134  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Graphite gray |
| B 100809 ABS 7035 | 96032135  | 113 | 80  | 90 | 74  | 75,9  | 68  | 72,9  | 82   | Light gray    |
| B 140806 ABS 7024 | 96033124  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Graphite gray |
| B 140806 ABS 7035 | 96033125  | 151 | 80  | 60 | 112 | 114,4 | 68  | 73,4  | 52   | Light gray    |
| B 140809 ABS 7024 | 96033134  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Graphite gray |
| B 140809 ABS 7035 | 96033135  | 151 | 80  | 90 | 112 | 113,9 | 68  | 72,9  | 82   | Light gray    |
| B 141306 ABS 7024 | 96033224  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Graphite gray |
| B 141306 ABS 7035 | 96033225  | 151 | 125 | 60 | 112 | 114,4 | 113 | 118,4 | 52   | Light gray    |
| B 141309 ABS 7024 | 96033234  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Graphite gray |
| B 141309 ABS 7035 | 96033235  | 151 | 125 | 90 | 112 | 113,9 | 113 | 117,9 | 82   | Light gray    |
| B 221306 ABS 7024 | 96035224  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Graphite gray |
| B 221306 ABS 7035 | 96035225  | 231 | 125 | 60 | 192 | 194,4 | 113 | 118,4 | 52   | Light gray    |
| B 221309 ABS 7024 | 96035234  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Graphite gray |
| B 221309 ABS 7035 | 96035235  | 231 | 125 | 90 | 192 | 194,1 | 113 | 117,9 | 82   | Light gray    |
| B 261706 ABS 7024 | 96036324  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Graphite gray |
| B 261706 ABS 7035 | 96036325  | 271 | 170 | 60 | 232 | 234,4 | 158 | 163,4 | 51,5 | Light gray    |
| B 261709 ABS 7024 | 96036334  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Graphite gray |
| B 261709 ABS 7035 | 96036335  | 271 | 170 | 90 | 232 | 234,1 | 158 | 163,1 | 81,5 | Light gray    |

Scope of delivery: Lid and base, hinged quick-release catches

Note: Material shrinkage may result in ABS enclosures being approx. 0.1 – 0.25 % larger.

For accessories, see following pages.



# Bocube accessories

## Hinged quick-release catches, polycarbonate UL 94 V0 or ABS

| Model              | Order no. | Color            | Note                         |
|--------------------|-----------|------------------|------------------------------|
| B SC 08 PC-V0 1023 | 96310103  | Traffic yellow   | For B 080805, 10080., 14080. |
| B SC 08 ABS 1023   | 96330103  | Traffic yellow   | For B 080805, 10080., 14080. |
| B SC 08 PC-V0 7035 | 96310105  | Light gray       | For B 080805, 10080., 14080. |
| B SC 08 ABS 7035   | 96330105  | Light gray       | For B 080805, 10080., 14080. |
| B SC 08 PC-V0 7024 | 96310104  | Graphite gray    | For B 080805, 10080., 14080. |
| B SC 08 ABS 7024   | 96330104  | Graphite gray    | For B 080805, 10080., 14080. |
| B SC 08 PC-V0 6029 | 96310109  | Mint green       | For B 080805, 10080., 14080. |
| B SC 08 ABS 6029   | 96330109  | Mint green       | For B 080805, 10080., 14080. |
| B SC 08 PC-V0 5002 | 96310102  | Ultramarine blue | For B 080805, 10080., 14080. |
| B SC 08 ABS 5002   | 96330102  | Ultramarine blue | For B 080805, 10080., 14080. |
| B SC 08 PC-V0 3000 | 96310100  | Flame red        | For B 080805, 10080., 14080. |
| B SC 08 ABS 3000   | 96330100  | Flame red        | For B 080805, 10080., 14080. |
| B SC 13 PC-V0 1023 | 96310203  | Traffic yellow   | For B 14130., 2213.          |
| B SC 13 ABS 1023   | 96330203  | Traffic yellow   | For B 14130., 2213.          |
| B SC 13 PC-V0 7035 | 96310205  | Light gray       | For B 14130., 2213.          |
| B SC 13 ABS 7035   | 96330205  | Light gray       | For B 14130., 2213.          |
| B SC 13 PC-V0 7024 | 96310204  | Graphite gray    | For B 14130., 2213.          |
| B SC 13 ABS 7024   | 96330204  | Graphite gray    | For B 14130., 2213.          |
| B SC 13 PC-V0 6029 | 96310209  | Mint green       | For B 14130., 2213.          |
| B SC 13 ABS 6029   | 96330209  | Mint green       | For B 14130., 2213.          |
| B SC 13 PC-V0 5002 | 96310202  | Ultramarine blue | For B 14130., 2213.          |
| B SC 13 ABS 5002   | 96330202  | Ultramarine blue | For B 14130., 2213.          |
| B SC 13 PC-V0 3000 | 96310200  | Flame red        | For B 14130., 2213.          |
| B SC 13 ABS 3000   | 96330200  | Flame red        | For B 14130., 2213.          |
| B SC 17 PC-V0 1023 | 96310303  | Traffic yellow   | For B 26170.                 |
| B SC 17 ABS 1023   | 96330303  | Traffic yellow   | For B 26170.                 |
| B SC 17 PC-V0 7035 | 96310305  | Light gray       | For B 26170.                 |
| B SC 17 ABS 7035   | 96330305  | Light gray       | For B 26170.                 |
| B SC 17 PC-V0 7024 | 96310304  | Graphite gray    | For B 26170.                 |
| B SC 17 ABS 7024   | 96330304  | Graphite gray    | For B 26170.                 |
| B SC 17 PC-V0 6029 | 96310309  | Mint green       | For B 26170.                 |
| B SC 17 ABS 6029   | 96330309  | Mint green       | For B 26170.                 |
| B SC 17 PC-V0 5002 | 96310302  | Ultramarine blue | For B 26170.                 |
| B SC 17 ABS 5002   | 96330302  | Ultramarine blue | For B 26170.                 |
| B SC 17 PC-V0 3000 | 96310300  | Flame red        | For B 26170.                 |
| B SC 17 ABS 3000   | 96330300  | Flame red        | For B 26170.                 |

Scope of delivery: 1 set = 2 pieces

## Wall brackets

| Model     | Order no. | Color         |
|-----------|-----------|---------------|
| B WL 7024 | 96510004  | Graphite gray |
| B WL 7035 | 96510005  | Light gray    |

Scope of delivery: 4 wall brackets (polycarbonate UL 94 V0), 4 screws



## Bocube accessories



### Mounting panels, laminated paper, 2 mm

| Model    | Order no. | Note         |
|----------|-----------|--------------|
| B M 0808 | 96601100  | For B 080805 |
| B M 1008 | 96602100  | For B 10080. |
| B M 1408 | 96603100  | For B 14080. |
| B M 1413 | 96603200  | For B 14130. |
| B M 2213 | 96605200  | For B 22130. |
| B M 2617 | 96606300  | For B 26170. |

Scope of delivery: 1 mounting panel

Note: Please order fixing screws order no. 96600000 (for B 08...) and order no. 96600010 (for B 10..., B 14..., B 22... and B 26...) separately.

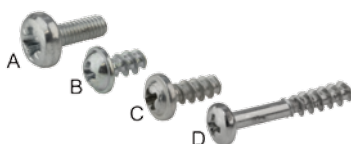


### Front panels, natural-colored anodized aluminum

| Model     | Order no. | Note                                       |
|-----------|-----------|--------------------------------------------|
| B FP 1008 | 96702100  | For B 10080., front panel thickness 1.5 mm |
| B FP 1408 | 96703100  | For B 14080., front panel thickness 1.5 mm |
| B FP 1413 | 96703200  | For B 14130., front panel thickness 1.5 mm |
| B FP 2213 | 96705200  | For B 22130., front panel thickness 2.0 mm |
| B FP 2617 | 96706300  | For B 26170., front panel thickness 2.5 mm |

Scope of delivery: 1 front panel

Note: Please order fixing screws order no. 96700000 and distance bolts separately.



### Sets of screws

| Model        | Order no. | Note                                         |
|--------------|-----------|----------------------------------------------|
| B FP-SHR     | 96700000  | A (for fixing front panels)                  |
| B M-SHR 0808 | 96600000  | B (for fixing mounting panels B M 0808)      |
| B M-SHR      | 96600010  | C (for fixing mounting panels B M 1008-2617) |
| B SHR        | 96300000  | D (for optional screwing of enclosures)      |

Scope of delivery: PU = 4 pcs. (exception: B M-SHR 0808, PU = 2 pcs)



### Distance bolts

| Model                | Order no. | Note                                                   |
|----------------------|-----------|--------------------------------------------------------|
| DIBLZ AK 30x5/IM3/28 | 96728000  | ND = 2.4-2.6, for B .....6                             |
| DIBLZ AK 30x7/IM3/26 | 96726000  | ND = 2.4-2.6, for B .....6 if a mounting plate is used |
| DIBLZ AK 30x5/IM3/58 | 96758000  | ND = 2.4-2.6, for B .....9                             |
| DIBLZ AK 30x7/IM3/56 | 96756000  | ND = 2.4-2.6, for B .....9 if a mounting plate is used |

Scope of delivery: PU = 4 pieces

Note: ND = boss internal diameter

# Bocube accessories

## Blanking plugs to determine the hinge side

| Model     | Order no. | Color         |
|-----------|-----------|---------------|
| B VS 7024 | 96410004  | Graphite gray |

Scope of delivery: Blanking plugs (PC UL 94 V0), PU = 10 pieces

Note: When fitted, the blanking plug is almost invisible.



## DIN rails DIN EN 60715 TH 15

| Model | Order no. | Note                      |
|-------|-----------|---------------------------|
| TS 15 | 22150701  | For B 10080.              |
| TS 15 | 22151101  | For B 14080. and B 14130. |
| TS 15 | 22151901  | For B 22130.              |
| TS 15 | 22152301  | For B 26170.              |

Scope of delivery: 1 DIN rail



## DIN rails DIN EN 60715 G 32

| Model | Order no. | Note                      |
|-------|-----------|---------------------------|
| TS 32 | 22320701  | For B 10080.              |
| TS 32 | 22321101  | For B 14080. and B 14130. |
| TS 32 | 22321901  | For B 22130.              |
| TS 32 | 22322301  | For B 26170.              |

Scope of delivery: 1 DIN rail



## DIN rails DIN EN 60715 TH 35

| Model | Order no. | Note                      |
|-------|-----------|---------------------------|
| TS 35 | 22350701  | For B 10080.              |
| TS 35 | 22351101  | For B 14080. and B 14130. |
| TS 35 | 22351901  | For B 22130.              |
| TS 35 | 22352301  | For B 26170.              |

Scope of delivery: 1 DIN rail



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