



Aluminium Light-Duty Control Enclosure CC-3000

Individual modular-design enclosures

Aluminium Light-Duty Control Enclosure CC-3000 – Individual modular-design enclosures

The **BERNSTEIN CC-3000 light-duty control enclosure** is particularly suitable for encapsulating operator control panels, IPCs and display components and, thanks to its modular concept, can be simply adapted to versions tailored to specific customer requirements. The aluminium sections can be simply cut to the required lengths and assembled with aluminium corner modules. Different depths of the enclosure are achieved by variably combining aluminium sections. In addition to various widths, heights and depths, we offer a wide variety of customer-specific solutions:

- Door hinge mounted on left or right
- Choice of colours
- Ready-to-use front panels according to customer specifications with screen print or engraving
- Front frame customisation
- System solutions including specific preparation and wiring

In most applications it is necessary to mount the enclosure on a machine or wall. The following **BERNSTEIN suspension systems** are ideally suited for this purpose:

- Light-duty suspension system Type CS-2000 SL
- Medium-duty suspension system Type CS-3000
- Heavy-duty suspension system Type CS-2000 System 80

Selection of the suitable system depends on the total weight of the enclosure. The **enclosure sections are prepared (machined)** corresponding to the specific suspension system. We would be pleased to assist you in selecting the right system for your application.

Product characteristics

- 5 possible enclosure designs (with or without integrated handles)
- Individual powder coating of the enclosure corners (standard: RAL 7016) and, on request, also of the sections (standard: naturally anodized)
- Single-walled sections provide outstanding **heat dissipation** (the air trapped in double-walled sections acts as thermal insulation, thus inhibiting heat dissipation)
- Rectangular front panels (this allows direct installation of commercially available controllers)
- Standard protection class IP 65 (max. widths and heights 23.6" x 23.6" mm)
- Extensive range of accessories
- Configuration corresponding to customer specifications (check list see 6, 7)
- Approbations: c UL us (Label on demand)



Single section configuration

	Front panel	Rear panel	Total depth	Installation depth
A	Internally mounted	Fixed or hinged	4.7"	4.1"
			7.9"	7.2"
B	Externally mounted	Fixed or hinged	4.7"	4.4"
			7.9"	7.5"



Aluminium section depth comparison:
 200 mm (left) and 120 mm (right)

Configuration with combination of two sections (as door)

	Front panel	Rear panel	Total depth	Installation depth
C	Internally mounted	Internally mounted	4.7"+2.2"	5.8"
			7.9"+2.2"	9.0"
D	Externally mounted	Internally mounted	4.7"+2.2"	6.2"
			7.9"+2.2"	9.3"
E	Internally mounted	Externally mounted	4.7"+2.2"	6.2"
			7.9"+2.2"	9.3"
F	Externally mounted	Externally mounted	4.7"+2.2"	6.5"
			7.9"+2.2"	9.7"



120 mm section with additional
 door extension (55 mm)

Enclosure dimensions

The height and width of the BERNSTEIN CC-3000 light-duty control enclosure can be varied up to a maximum recommended size of approx. 23.6" x 23.6".

Larger control enclosures are available on request.

BERNSTEIN offers two standard 4.7" and 7.9" wide sections for creating different enclosure depths. By combining with the 2.2" door extension for a total depth of 6.9" and 10.4" respectively.

The corresponding installation depths are listed above.

Individual modular-design enclosures – Discover the range



Application example with left-hand and right-hand handles



Internally mounted front panel



Fixed rear panel



Application example with handles all round



Externally mounted front panel



Hinged rear panel with lock

The BERNSTEIN CC-3000 light-duty control enclosure makes a total of **5 different enclosure designs** possible by combining different sections. BERNSTEIN offers standard version sections and sections with handles:

- Without handles
- Handle only at bottom
- Handles on left and right
- Handles on left, right and bottom
- Handles all round

A practical quick assembly system with plastic fold-up retaining elements is used to secure the **internally-mounted front panel**. No changes need to be made to the front panel. The retaining elements can be

shifted to freely selectable and reversible positions within the sections in the enclosure.

Mounting screws are screwed through the **externally-mounted front panel** into captive nuts that are inserted in the moveable retaining elements that can be positioned as required. As a further mounting option, threaded studs welded on the back of the front panel (concealed from the outside) are locked with nuts behind the retaining elements thus holding the front panel. Even when the door extension is used, the rear panel can still be secured in the described manner.

The **rear panel** can be screwed down or configured as a door without restricting the installation space by using hinges or articulated hinges.



The extruded aluminium section features **all-round grooves** (see image), allowing components to be simply secured with spring nuts without the need for mechanical modification to the enclosure. Furthermore, a cable routing is simply possible within the area of suspension system attachment.

BERNSTEIN System Solutions

Expertise from under one roof

However, this is not all

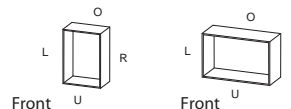
- Suspension system components for mounting from above and below
- Different keyboard solutions
- Attachment elements for console versions
- Different interface solutions
- Internal, external fans or air conditioners
- Cable routing components



Customer	*Product group	*Code	*Article number
Address			Customer No.
Telephone	Telefax	Industry	
Contact person			Department
<input type="checkbox"/> Pricing enquiry			
		Target price	Quantity
<input type="checkbox"/> Enquiry			
		*Enquiry No.	Annual requirement
<input type="checkbox"/> Order			
Delivery date			

1 Enclosure

- Standard
- Console enclosure, upper section
- Console enclosure, lower section



Anticipated installation weight _____ kg

2 Dimensions (mm) (always referred to the standard section)

External enclosure dimensions

Width x height (W x H) _____ x _____

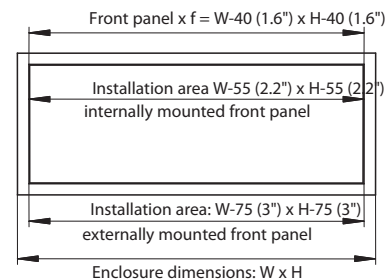
Front panel dimensions (e x f)

e x f = W - 40 (1.6") x H - 40 (1.6") _____ x _____

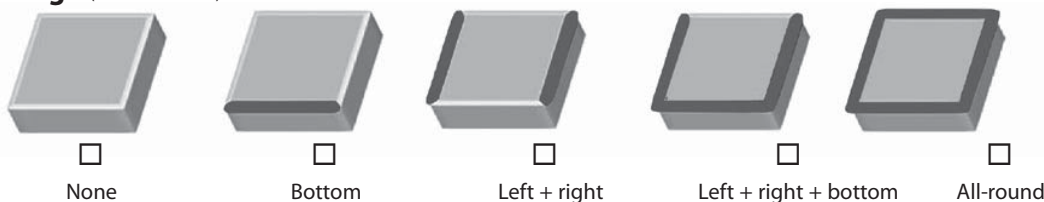
Rear panel dimensions W x H

_____ x _____

Screw-fixed rear panel: W x H = W - 7 (.3") x H - 7 (.3") Hinged rear panel: W x H = W - 9 (.4") x H - 9 (.4")



3 Front design (handle selection)



(Important! The external enclosure dimensions increase by 16.5 (.6") mm on the side where a handle strip is selected)

4 Enclosure without door section

Enclosure depth

- External depth 120 mm (4.7")
- 200 mm

Front panel position

- Installation depth
- Internal 103 mm (4")
 - External 111 mm (4.4")
 - Internal 183 mm (7.2")
 - External 191 mm (7.5")

Rear panel position

- Screw-fixed or hinged*
- Screw-fixed With standard hinge
 - With screw-mounted rear panel hinge

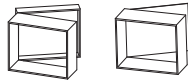
5 Enclosure with door section 55 (2.2") (FP = Front panel, RP = Rear panel)

Front door	or	Rear door	FP and RP internal	FP internal and RP external	FP external and RP internal	FP and RP external
<input type="checkbox"/> 55 + 120	External articulated hinges	<input type="checkbox"/> 120 + 55	<input type="checkbox"/> Installation depth 149 mm	<input type="checkbox"/> Installation depth 157 mm	<input type="checkbox"/> Installation depth 157 mm	<input type="checkbox"/> Installation depth 166 mm
<input type="checkbox"/> 55 + 200		<input type="checkbox"/> 200 + 55	<input type="checkbox"/> Installation depth 229 mm	<input type="checkbox"/> Installation depth 237 mm	<input type="checkbox"/> Installation depth 237 mm	<input type="checkbox"/> Installation depth 246 mm

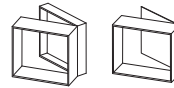
* Completed by BERNSTEIN AG

6 Door mounting

Left



or



or

Right

7 Lock

Square (mm): 6

7

8 (Standard)

T-handle without lock

Triangle (mm): 7

8

6,5 (CNOMO)

T-handle with lock

Two-way bit (mm): 3

5

E1 (without key)

Daimler Benz:

Special lock/customer specification

T-handle E1 (without key)

8 Front panel

None

With

Without keyboard, 0°, without lock, 2HM

19" Installation kit _____ Qty.

9 Rear panel

None

With

Without keyboard, 20°, without lock, 3HM

Clamping element for Simatic

With keyboard, 0°, without lock, German, PS2, 2HM

With keyboard, 20°, without lock, German, PS2, 3HM

To customer specification (description under Point 14)

10 Partition (partition height 13 mm)

Vertical

_____ Qty.

Not mounted (standard)

Mounted on right

Mounted on left

Horizontal

_____ Qty.

unmounted (standard)

Bottom mounted

Top mounted

11 Partial front panels

none

1st operator panel: _____ Width x _____ Height

Not mounted

INTERNALLY mounted

EXTERNALLY mounted _____ (Art. No. BP)

2nd operator panel: _____ Width x _____ Height

Not mounted

INTERNALLY mounted

EXTERNALLY mounted _____ (Art. No. BP)

12 Preparation for suspension system None

Standard preparation (flange SL/CS-3000)

Automotive adapter

Top

Turn/tilt coupling

WS coupling

Side

Tilt adapter (only section 200)

CS-3000/48

Bottom

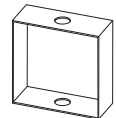
Flange coupling 80 (only section 200)

Special preparation to

customer specification (see below)

SS cover, top SS cover, bottom

Console connector



13 Surface finish

Basic sections:

Anodised, natural

Door sections:

Anodised, natural

Corner modules/end caps:

RAL 7016, powder-coated

Partition:

Anodised, natural

Front panels:

Anodised, natural

Article number FP: _____

Rear panels:

Anodised, natural

Article number RW: _____

14 Accessories, Remarks (included in delivery specification: key (except E1 lock) and earthing kit)

KDL 16/4

KDL 24/5

Grommet 3-4 mm

Grommet 6-7 mm

Dummy grommet

Only with automotive dapter or without SS preparation (KDL = cable gland strip)

_____ Qty.

_____ Qty.

_____ Qty.

Additionally: _____

Annexes

Slsmn. _____ TAV _____ TAV _____

No Annexes



**Switch systems –
Economy meets safety**



**Sensor systems –
Compact intelligence**



**Enclosure systems –
Function and design**

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