Mounting accessories for imc devices
Technical Data Sheet

imc has been certified according to [DIN EN ISO 9001](#) since 1995. As a device manufacturer, imc does not have an accredited laboratory, but fully complies with IATF16949 requirement 7.1.5.3.2 "Requirements for external laboratories". The protocol set with factory calibration certificate and measurement value protocols as well as the list of test equipment used complies with the requirements of DIN EN ISO 17025.

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imc CRONOSflex (CRFX)

A CRONOS*flex* system is composed of a base unit and one or more imc CRONOS*flex* modules. These modules are designed to be directly connected to one another.

The following overview illustrates three different sizes of the imc CRONOS*flex* measurement modules. All imc CRONOS*flex* measurement modules interlock with each other once clicked together. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual modules (43.3 + 43.3 + …).
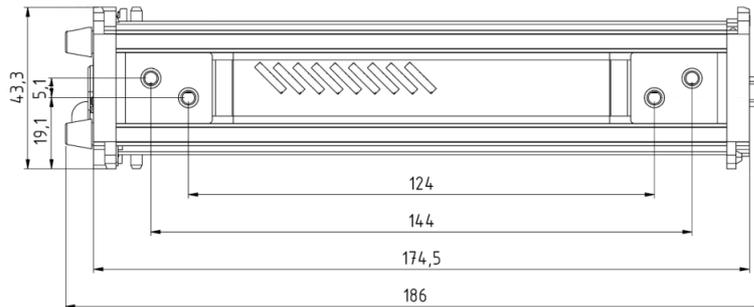
imc CRONOS*flex* measurement modules e.g. CRFX/LV3-8, CRFX/ISO2-8, CRFX/DCBC2-8
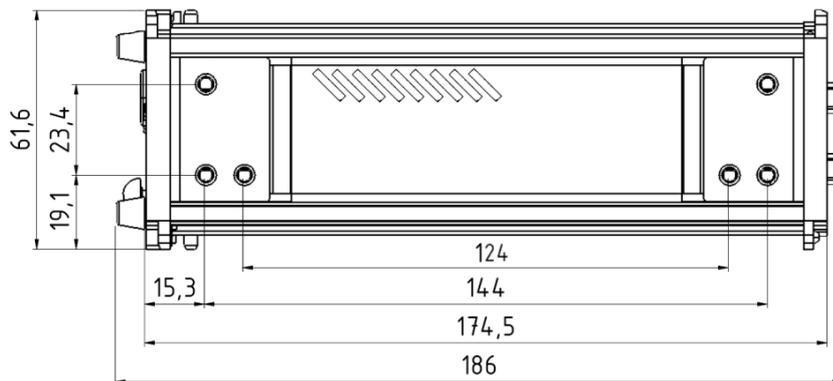
imc CRONOS*flex* measurement modules e.g. CRFX/UNI2-8, CRFX/DCB2-8, CRFX/B-8
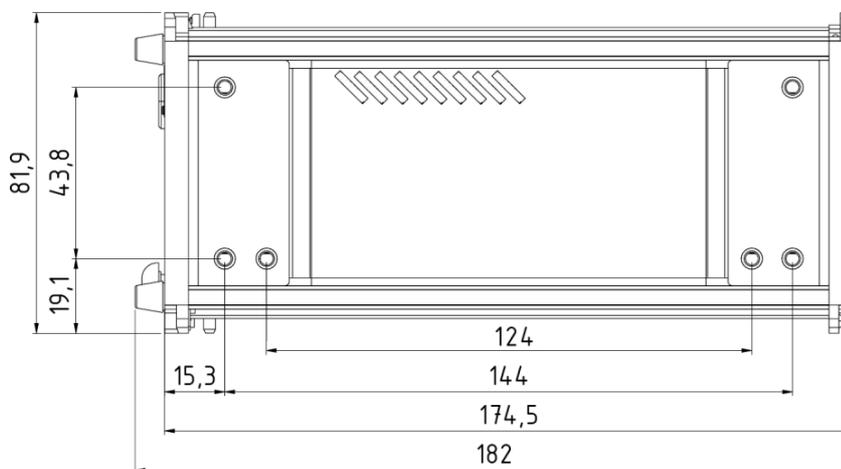
imc CRONOS*flex* measurement modules e.g. CRFX/HV2-4U, CRFX/HV2-2U2I, CRFX/HISO-8

Base units dimensions and configuration options			
Dimensions (W x H x D in mm)	90 x 118 x 180 (standard, without any additional configuration options)		
Ex factory configuration options of base unit	• Multi-IO	adds 40 mm to the width	
		• DI16-DO8-ENC4 or • DI8-DO8-ENC4-DAC4	
	• special interface, fieldbus interface	adds 20 mm to the width	

Possible combinations				
fieldbus interface 1	fieldbus interface 2	fieldbus interface 3	Multi-IO	width in mm
-	-	-	-	90
✓	-	-	-	110
✓	✓	-	-	130
✓	✓	✓	-	150
-	-	-	✓	130
✓	-	-	✓	150
✓	✓	-	✓	170

The following drawings show the imc CRONOS*flex* Base Unit:

A	
	width in mm
	90
	110
	130
	150
	170

Rear side

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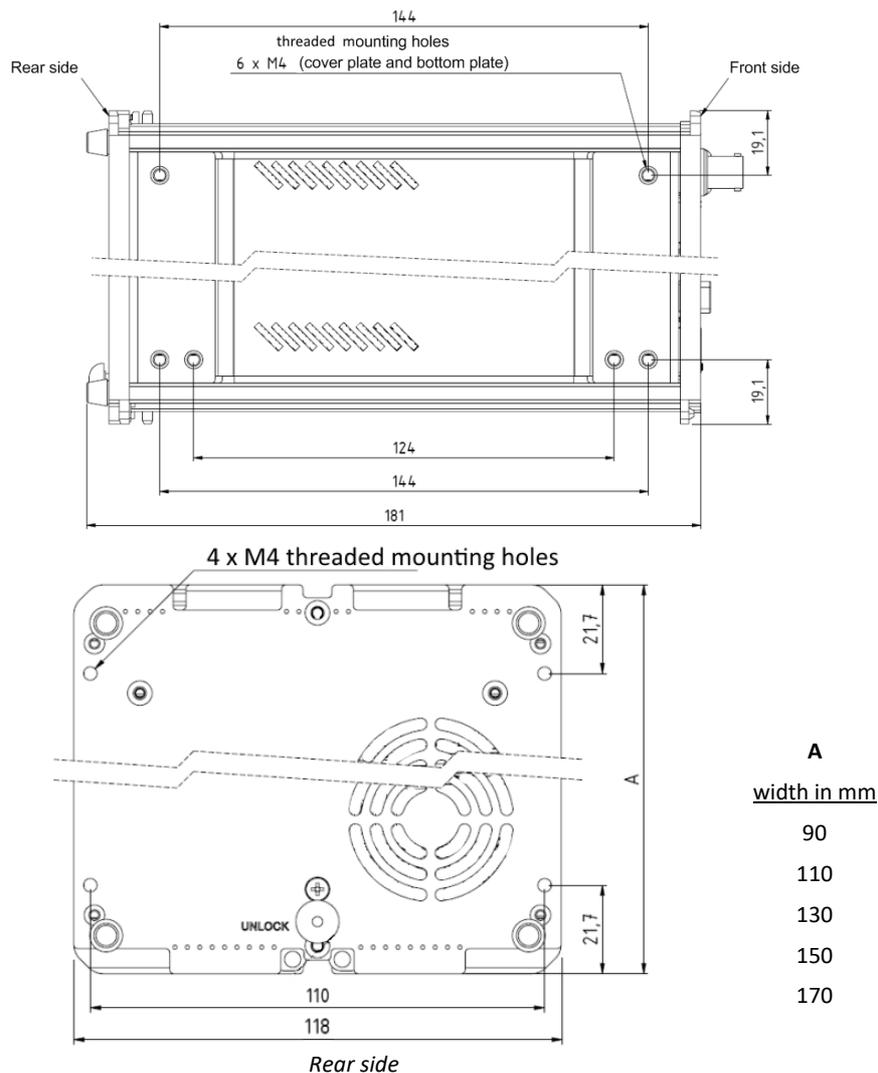
Power Handle

The Power Handle is equipped with M4 bolting 144 mm apart from each other.
Only the interconnect bracket CRFX/BRACKET-CON-GR2-O (11900076) can be used to reinforce the Click Mechanism of the Power Handle.

The following drawings show the Power Handle:

CRFX/HANDLE-POWER
11900058

Abstand für optionalen Stecker notwendig

80

34,8

4x M4 Bohrungen auf beiden Seiten

182,5

124

144

90

Abstand für optionalen Stecker notwendig

CRFX/HANDLE-UPS-L
11900043

Headroom needed for optional plugs

80

64.8

4x M4 bolting both sides

182,5

124

144

90

Headroom needed for optional plugs

CRFX/HANDLE-LI-IO-L
11900010
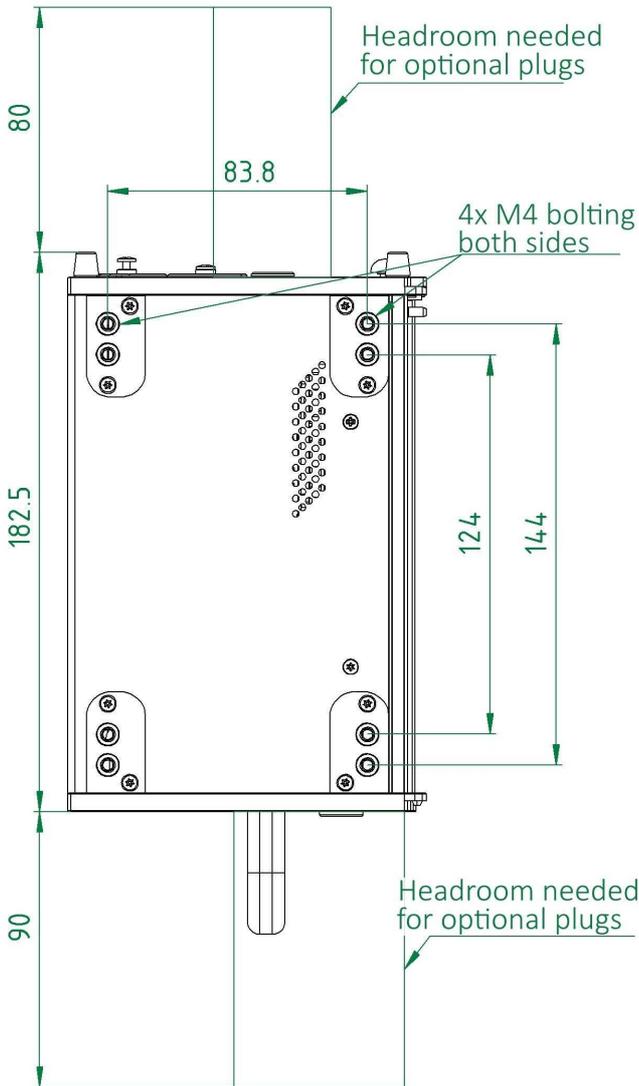
Headroom needed for optional plugs

80

83.8

4x M4 bolting both sides

182.5

124

144

90

Headroom needed for optional plugs

Rear side:

66.95

109.5

CRFX/HANDLE-POWER

96.95

109.5

CRFX/HANDLE-NIMH-L

115.95

BATTERY 1   BATTERY 2

109.5

CRFX/HANDLE-LI-IO-L

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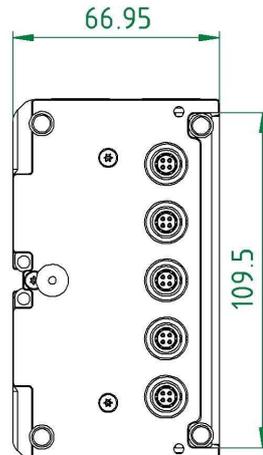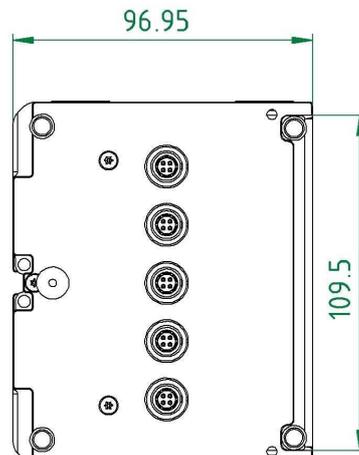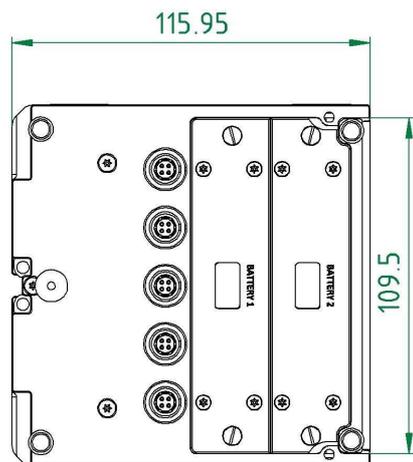
The following drawings show the Handle for imc CRONOS*flex* modules:

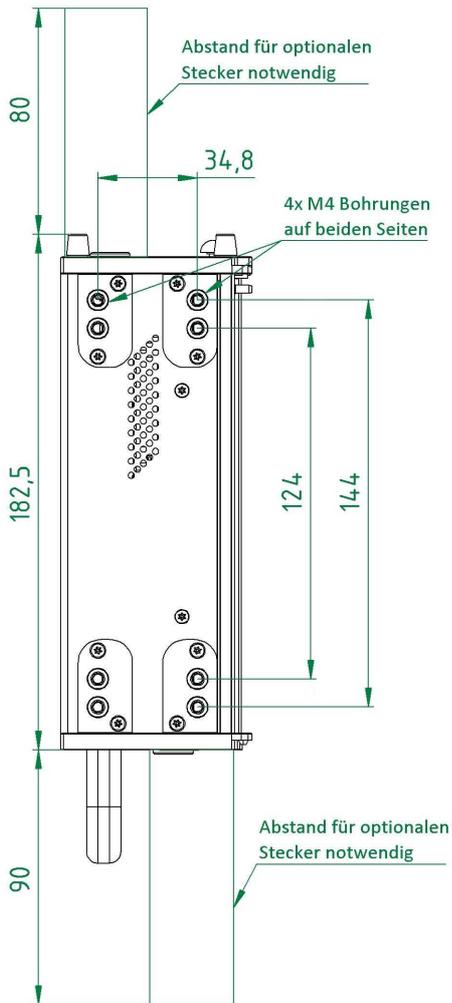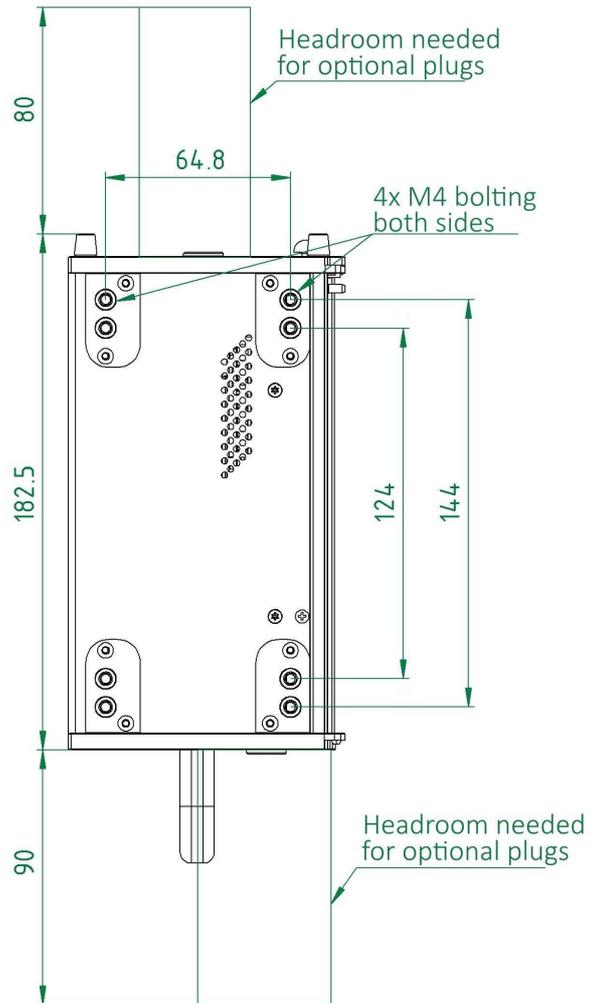The left and the right handle is equipped with M4 bolting 144 mm apart from each other.

Only the Interconnect Bracket CRFX/BRACKET-CON-GR2-O can be used to reinforce the Click Mechanism. To reinforce the imc click mechanism, the handle can only be attached with the CRFX/BRACKET-CON-GR2-O module connecting element.

front side   rear side
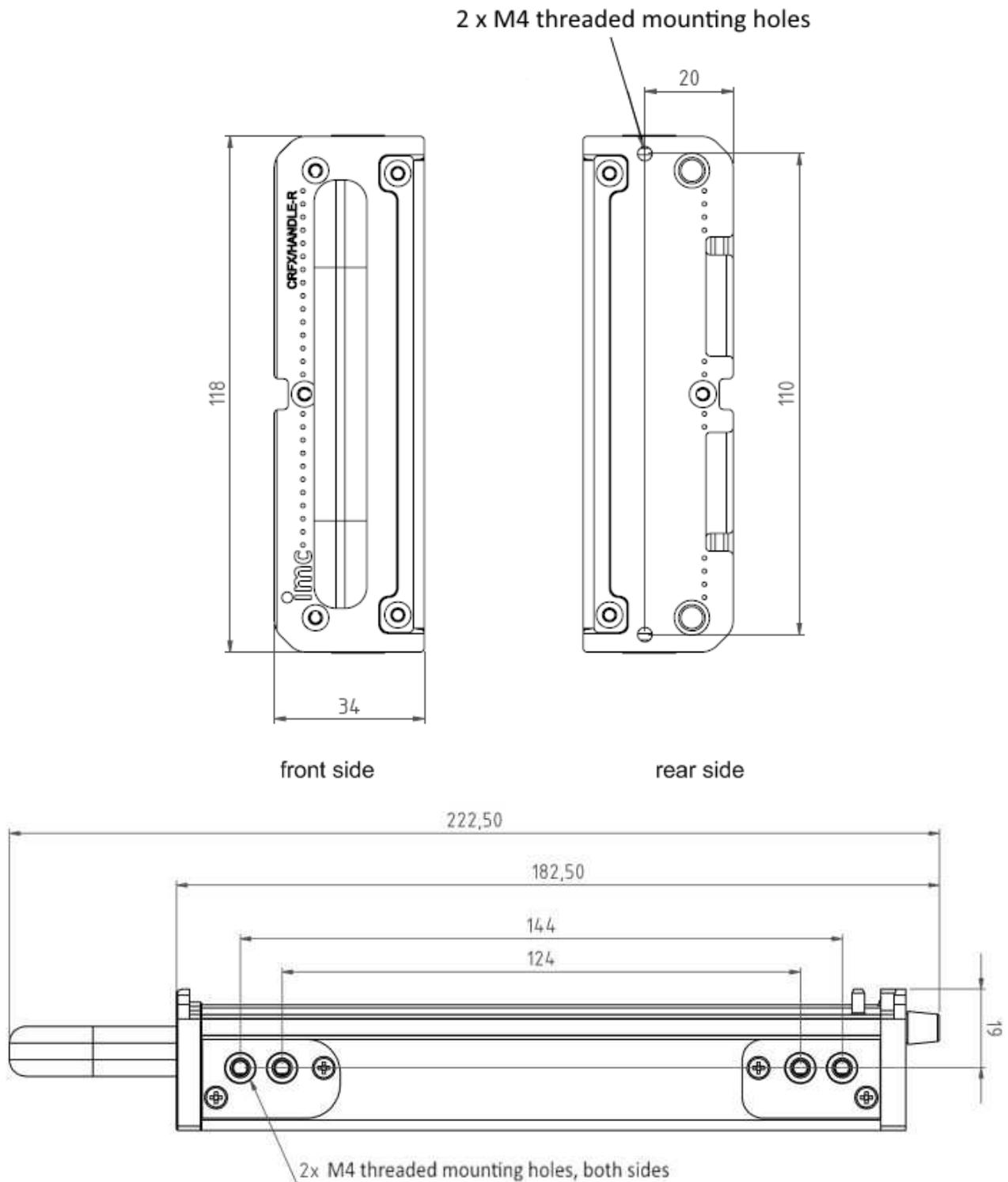
Rubber Buffer

Function: Air circulation

Properties:

The Rubber Buffer can be mounted in the M4 threaded holes of the imc CRONOS*flex* modules 3. This increases the air circulation and stability of the system.

Included accessories:

4x (2x)[1] rubber buffer (height 6.4 mm)

4x (2x)[1] cylinder screws DIN 7984 M4x6, A2

Order Code: **CRFX/RUBBER-BUFFER**   article number: 11900289

---

1   Two rubber feet are sufficient for size 1 CRFX modules.

Back Panel Mounting Bracket (CRFX/BRACKET-BACK)

Function: Module mounting via back panel

Angle: 90° angular

Attachment: 2 M4 screws

Properties:

This angular mounting bracket: CRFX/BRACKET-BACK is designed for installing imc CRONOS*flex* modules [3] on a flat surface. This bracket must be installed on the module's back panel. Due to the tight spacing between the block of modules and the flat surface, the modules require the **special accessory:** 90° angular LEMO and RJ45 plug. The distance from the back panel of the module to the flat surface is: 35 mm.

back panel: imc CRONOSflex module (GR2 [3])
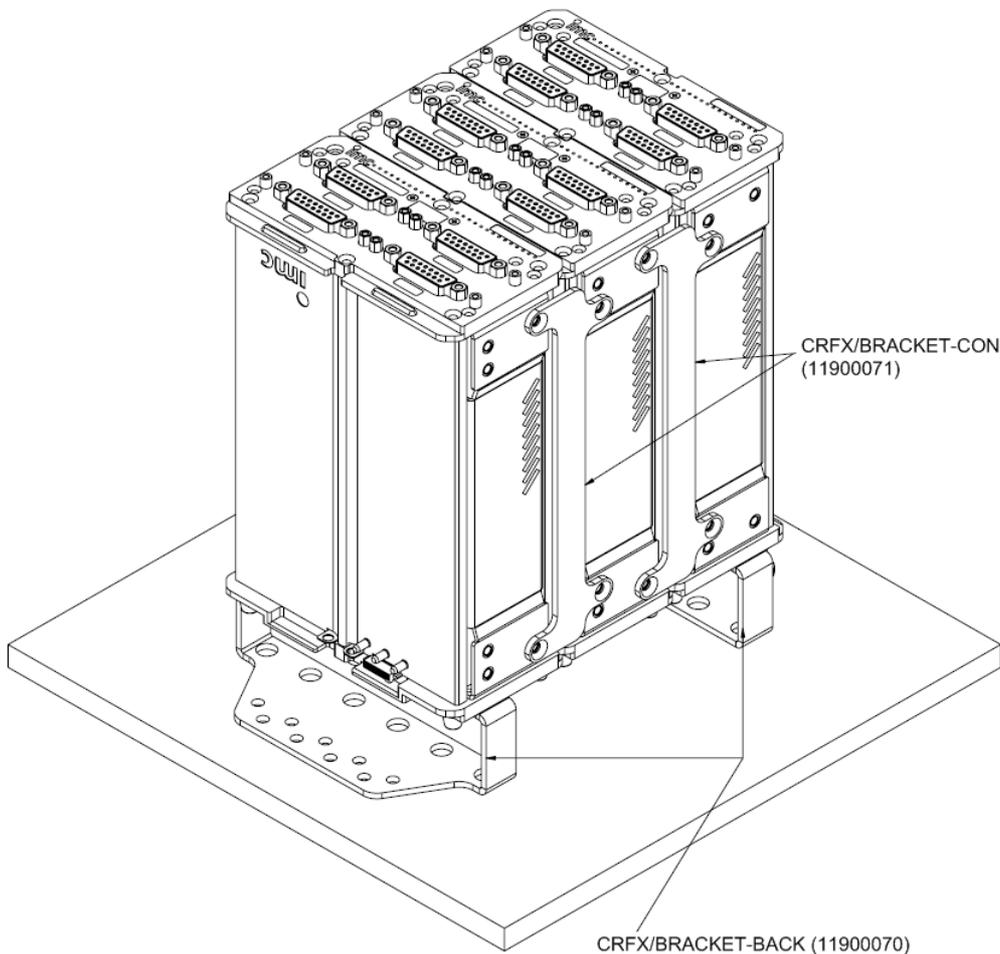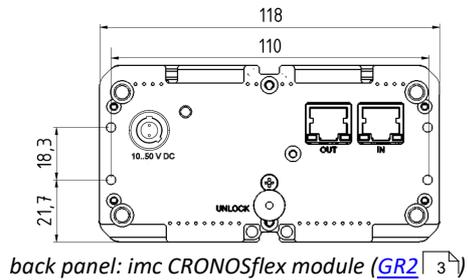
Two Back Panel Mounting Brackets are necessary to install the modules in the way shown.

Included accessories:
    1x back panel mounting bracket
    2x cylinder screws DIN 7984 M4x8

Order Code: **CRFX/BRACKET-BACK**   article number: 11900070
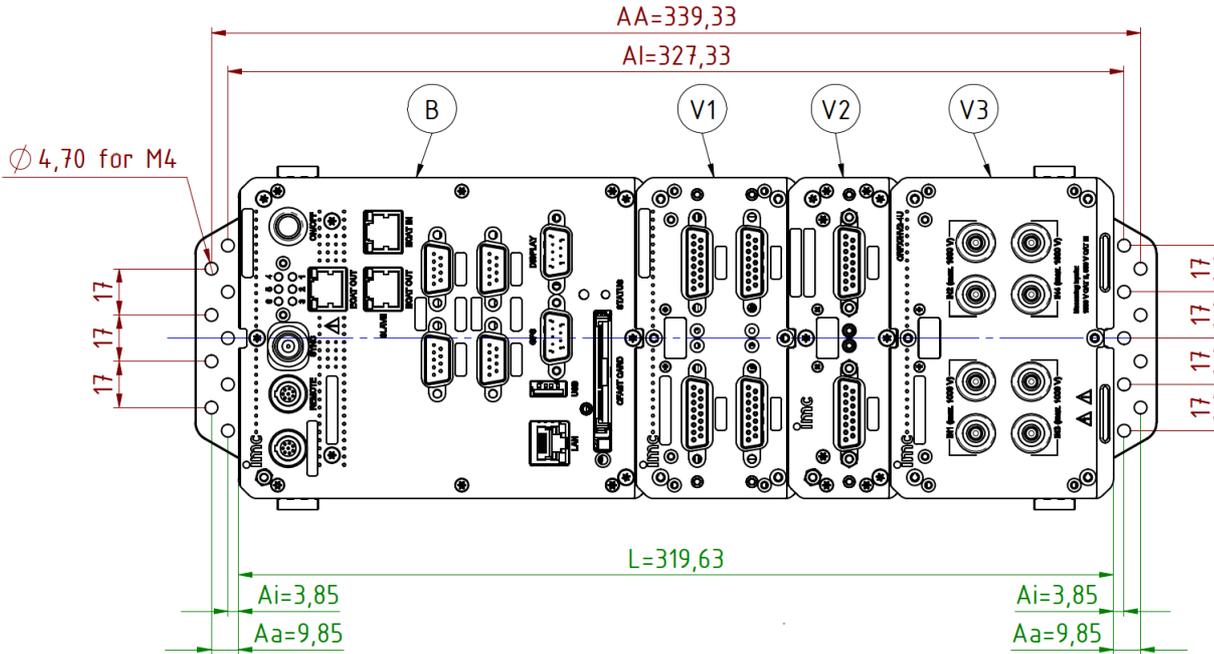
Legend:

n	number of modules (including base unit)
O	overlap (=6.05 mm) of clicked modules
B	width of the base unit
Vx	width of a single measurement module used
Aa	distance between the outer mounting hole to the module edge (=9.85 mm)
Ai	distance between the inner mounting hole to the module edge (=3.85 mm)
AA	distance between outer mounting holes
AI	distance between inner mounting holes
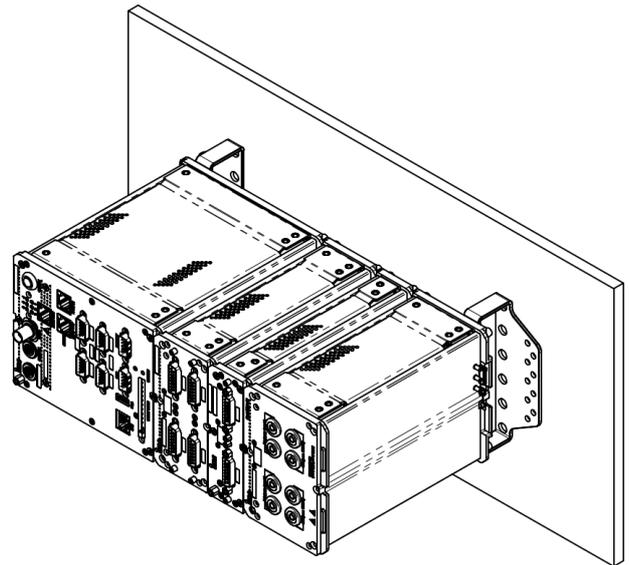
Formulas to determine the distance between the mounting holes

$$AI = 2 * Ai + (L - (n-1) * O) = 2 * Ai + ((B + V1 + V2 + V3... + Vn) - (n-1) * O)$$

$$AA = 2 * Aa + (L - (n-1) * O) = 2 * Aa + ((B + V1 + V2 + V3.. + Vn) - (n-1) * O)$$

💡 Example

B: CRFX base unit with three additional fieldbus interfaces; width of single base unit without option [3]: 90 mm, additional space required for each fieldbus interface: 20.32 mm → $B = 90 + 3 * 20.32 = 150.96 mm$

V1: CRFX module GR2 (e.g. CRFX/UNI2-8) with a width of V1 = 61.62 mm
V2: CRFX module GR1 (e.g. CRFX/ISO2-8) with a width of V2 = 43.3 mm
V3: CRFX module GR3 (e.g. CRFX/HV2-2U2I) with a width of V3 = 81.9 mm

$AA = 2 * 9.85 + ((150.96 + 61,62 + 43.3 + 81.9) - (4-1) * 6.05) mm = 339.33 mm$
$AI = 2 * 3.85 + ((150.96 + 61.62 + 43.3 + 81.9) - (4-1) * 6.05) mm = 327.33 mm$

Mounting Bracket 180° (CRFX/BRACKET-180)

Function:	Mounting imc CRONOS*flex* modules on a flat surface
Angle:	180° flat
Attachment:	2 to 4 M4 screws

CRFX/BRACKET-180

Properties:

An imc CRONOS*flex* system is composed of a imc CRONOS*flex* Base Unit and one or more imc CRONOS*flex* measurement modules. These modules are designed to be directly connected to one another.

The imc Click Mechanism and aluminum housing provide a firm mechanical and electrical connection (electrical connection via the 20-pin module connector on the side panels of each module).

Such a module block can be installed on a flat surface by means of two mounting brackets (CRFX/BRACKET-180). Wall mounting is also possible using these flat brackets. The mounting brackets must be installed on the bottom and/or cover plates of the leftmost and rightmost module (see the following picture).

CRFX/BRACKET-180 (11900069)
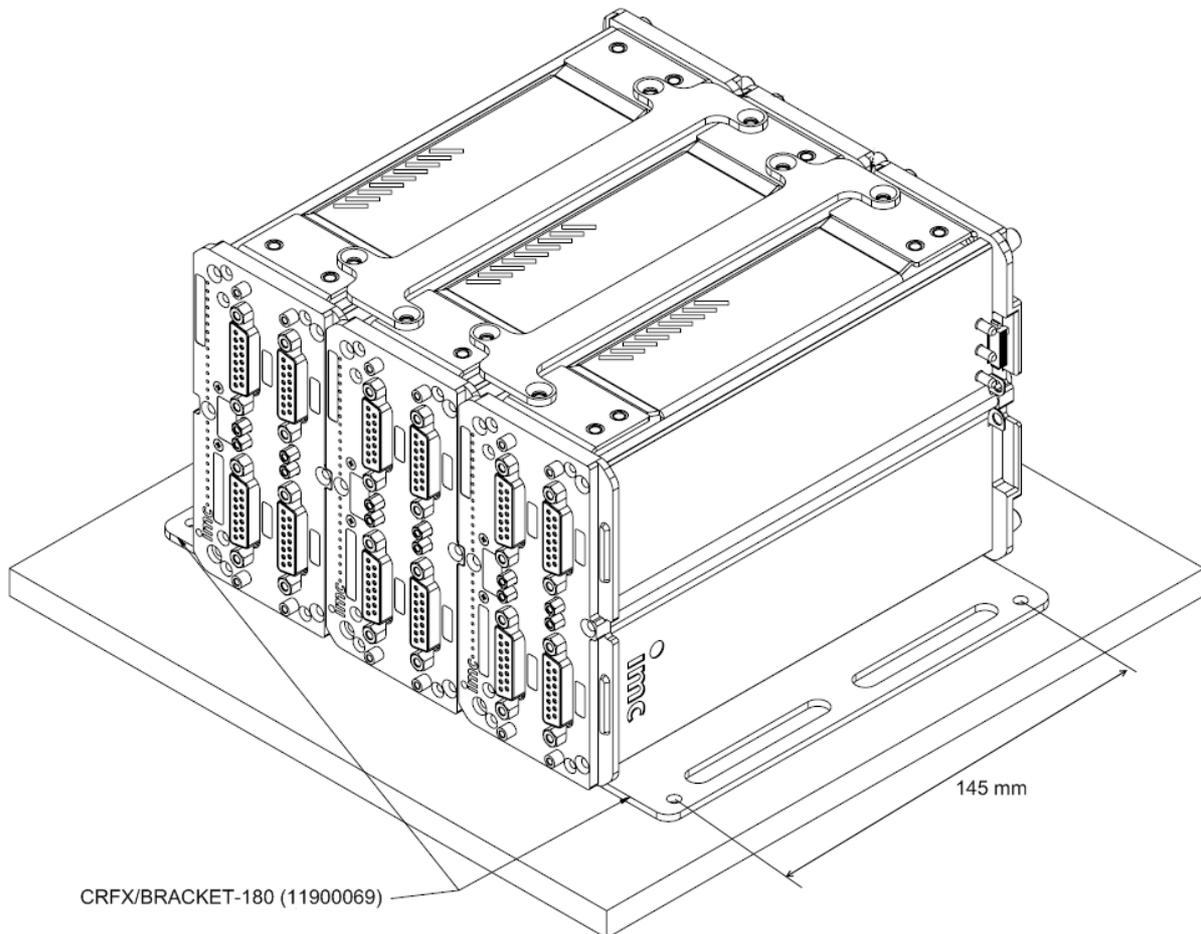
145 mm

Included accessories:
    1x mounting bracket 180°
    4x recessed countersunk flat head screws (M4x6)

Order Code: **CRFX/BRACKET-180** article number: 11900069

Mounting Bracket 90° (CRFX/BRACKET-90)

Function:	Mounting of imc CRONOS*flex* modules on a flat surface
Angle:	90° angular
Attachment:	2 to 4 M4 screws

Properties:

These angular brackets are designed for installation on a flat surface. Attachment is achieved with two or four M4 screws into the module's cover and/or bottom plate.

For wall mounting, be careful regarding the number of modules clicked together. It is recommended to reinforce the click mechanism with the Interconnect Bracket.
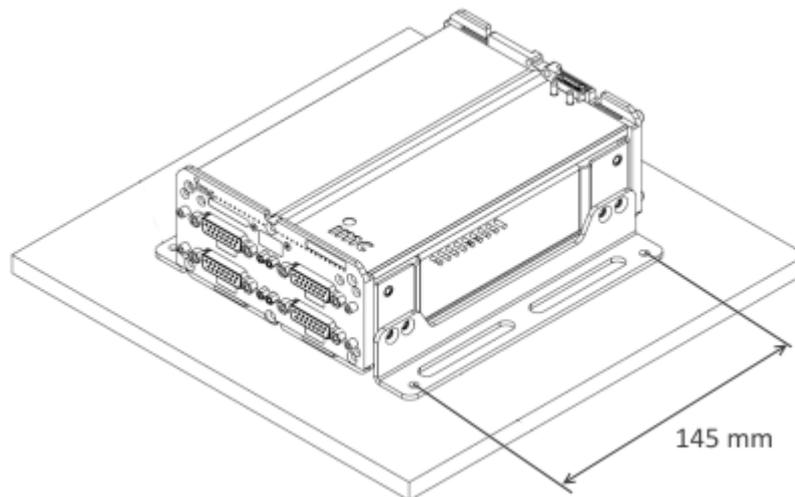
145 mm

Included accessories:
1x mounting bracket 90°
2x recessed countersunk flat head screws M4x6

Order Code: **CRFX/BRACKET-90**   article number: 11900068

imc

Interconnect Bracket

The Interconnect Bracket reinforces the imc Click Mechanism. The imc Click Mechanism provide a firm mechanical and electrical connection. The Interconnect Bracket must be installed on the cover plate and/or the bottom plate of the imc CRONOS*flex* module.
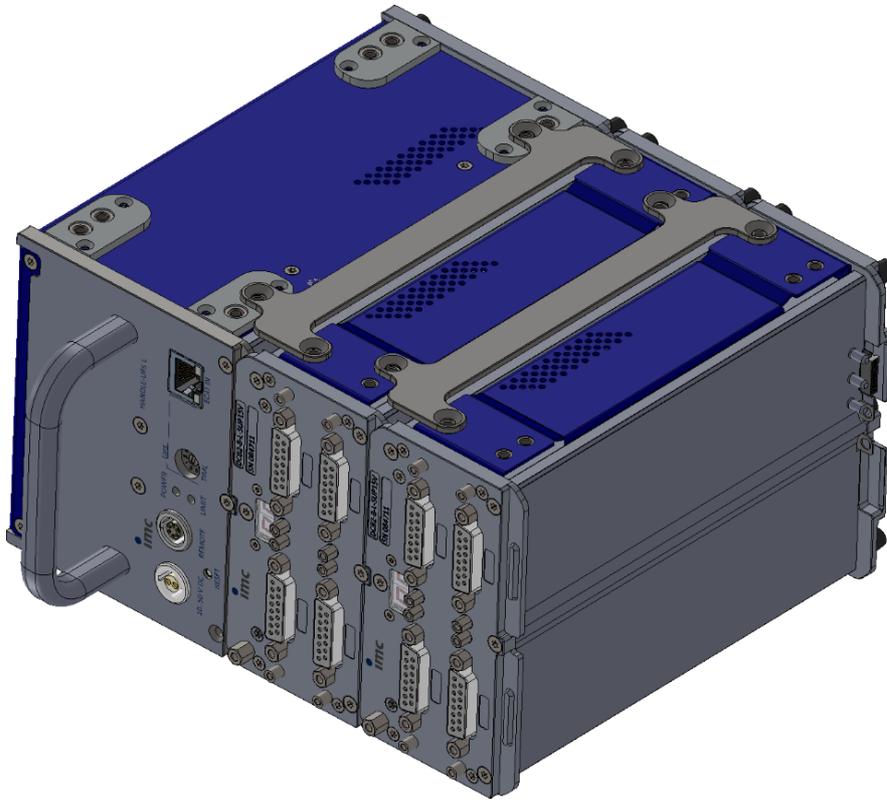
Interconnect bracket (CRFX/BRACKET-CON)

Interconnect Bracket CRFX/BRACKET-CON(-GR2-O)

Function: coupling of modules, reinforcement of click mechanism

Angle: 180° flat

Attachment: 4 M4 screws

Properties:

    Compatibility issues may require two different Interconnect Brackets. If the 124 mm thread is not provided on your module, then please use CRFX/BRACKET-CON-GR2-O.

Included accessories (CRFX/BRACKET-CON, CRFX/BRACKET-CON-GR2-O):

    1x interconnect bracket

    4x recessed countersunk flat head screws M4x6

Orer Code: CRFX/BRACKET-CON   article number: 11900071

               CRFX/BRACKET-CON-GR2-O   article number: 11900076

19" RACK (CRFX/RACK)

When clicked together in a stack imc CRONOS*flex* Modules can be mounted in a special 19" rack (CRFX/RACK19"). Any stack of modules must be installed on the left end of the CRFX/RACK. The remaining space on the right side is then covered with special plates ("front cover panel"). The width of each module is stated in its respective data sheet. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual elements (43.3 + 43.3 + ...).

The imc 19" rack is designed for an imc CRONOS*flex* system respectively module stacks having a maximum width of 405 mm.
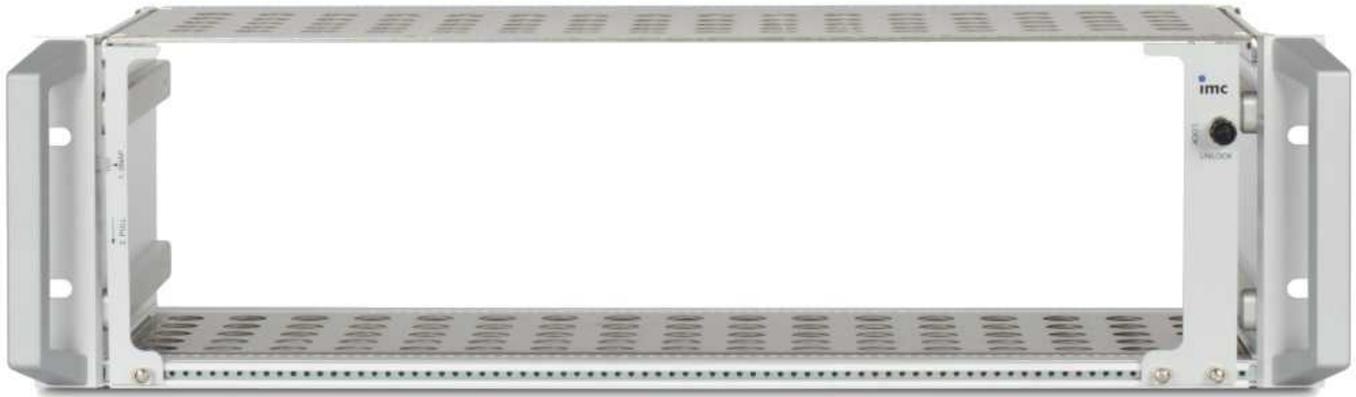
CRFX/RACK 19" rack for imc CRONOSflex Modules (article number: 11900066)

Assembly

⚠ Warning	Assembly

Do not try to click modules together while they are already in the RACK.

Both mounting elements must be installed after inserting the stack.

Each of the two elements is equipped with a peg on its upper edge. These pegs must be set in a hole in the CRFX 19" RACK's upper rail. Use the respective hole which directly corresponds to the imc CRONOS*flex* module's position.

Tighten the screws on the bottom end in order to position and secure the plates correctly.

Left mounting element

Right mounting element

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Optional accessories

CRFX/RACK-BP-12,4mm	front panel 12.4 mm (extra small) for empty slot	119000243
CRFX/RACK-BP-20mm	front panel 20 mm (small) for empty slot in the RACK	119000077
CRFX/RACK-BP-40,3mm	front panel 40.3 mm (middle) for empty slot	119000078
CRFX/RACK-BP-81mm	front panel 81 mm (big) for empty slot in the RACK	119000079

Disassembly

⚠ **Warning**	**Disassembly**

First unscrew the fasteners. Then carefully pull the entire module stack out of the rack.

The left mounting element can be used to aid in removing the module stack
(observe the following drawings):
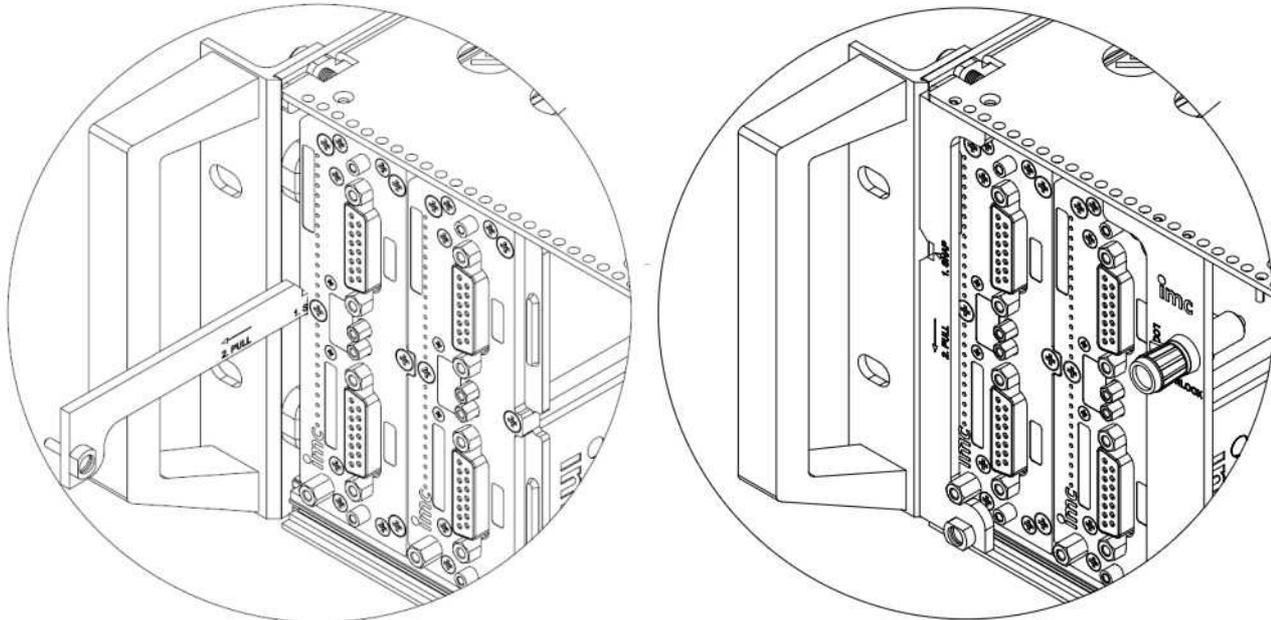
The left mounting element is inserted into the gap
as illustrated above.

Once the right mounting element has been removed, it is possible to hold the module stack on the right side in your hand. Then carefully pull the stack out of the rack, holding it on both sides.

Included accessories:

1x CRFX/RACK, 1x left mounting element, 1x right mounting element

Order Code: **CRFX/RACK**   article number: 11900066

Dimensions

Order Code: **CRFX/RACK**   article number: 11900066

2x 14 Langlöcher für M4 Befestigungs-
bohrungen der CRFX-Module
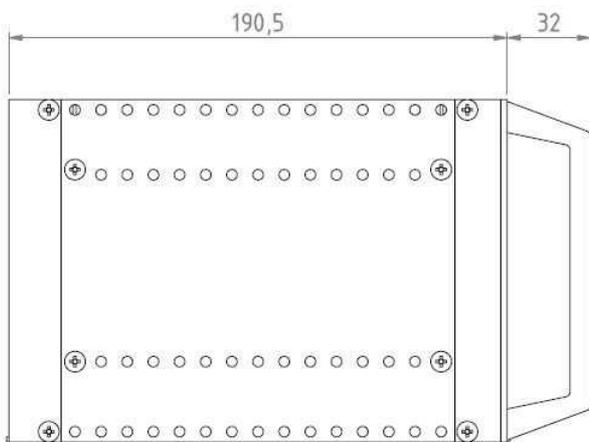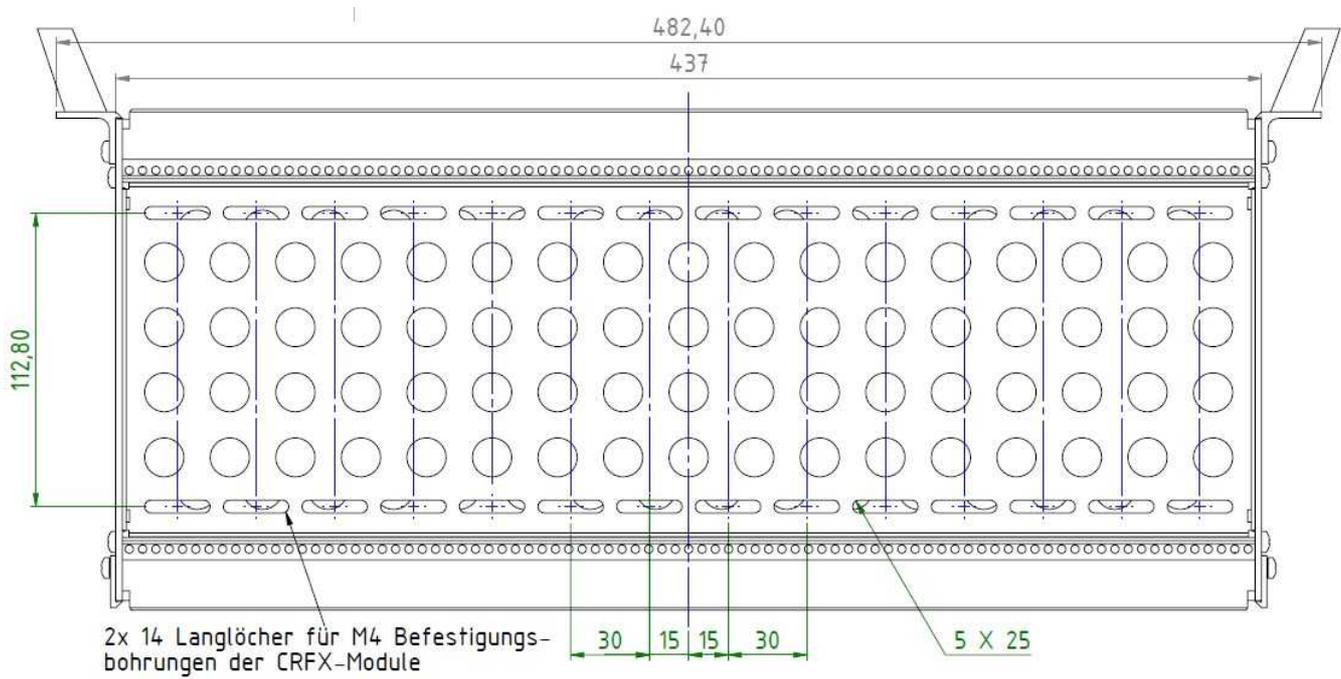
Parameter	Value	Remarks
Dimensions w/o handles	437 x 133 x 190.5 mm	W x H x D

1/2-19" RACK (CRFX-1/2-19"-RACK)

When clicked together in a stack imc CRONOS*flex* Modules can be mounted in a special 19" rack (CRFX/ 1/2 RACK 19"). Any stack of modules must be installed on the left end of the CRFX/RACK. The remaining space on the right side is then covered with special plates ("front cover panel"). The width of each module is stated in its respective data sheet. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual elements.

The half imc 19" rack is designed for an imc CRONOS*flex* system respectively module stacks having a maximum width of 200 mm.

CRFX/1/2-19"-RACK 19" rack for imc CRONOSflex Modules(article number: 11900106)

Assembly

⚠ Warning

Do not try to click modules together while they are already in the RACK.

Both mounting elements must be installed after inserting the stack.

Each of the two elements is equipped with a peg on its upper edge. These pegs must be set in a hole in the CRFX 19" RACK's upper rail. Use the respective hole which directly corresponds to the imc CRONOSflex module's position.

Tighten the screws on the bottom end in order to position and secure the plates correctly.

Left mounting element

Right mounting element

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Disassembly

⚠ **Warning**

First unscrew the fasteners. Then carefully pull the entire module stack out of the rack.

The left mounting element can be used to aid in removing the module stack
(observe the following drawings):
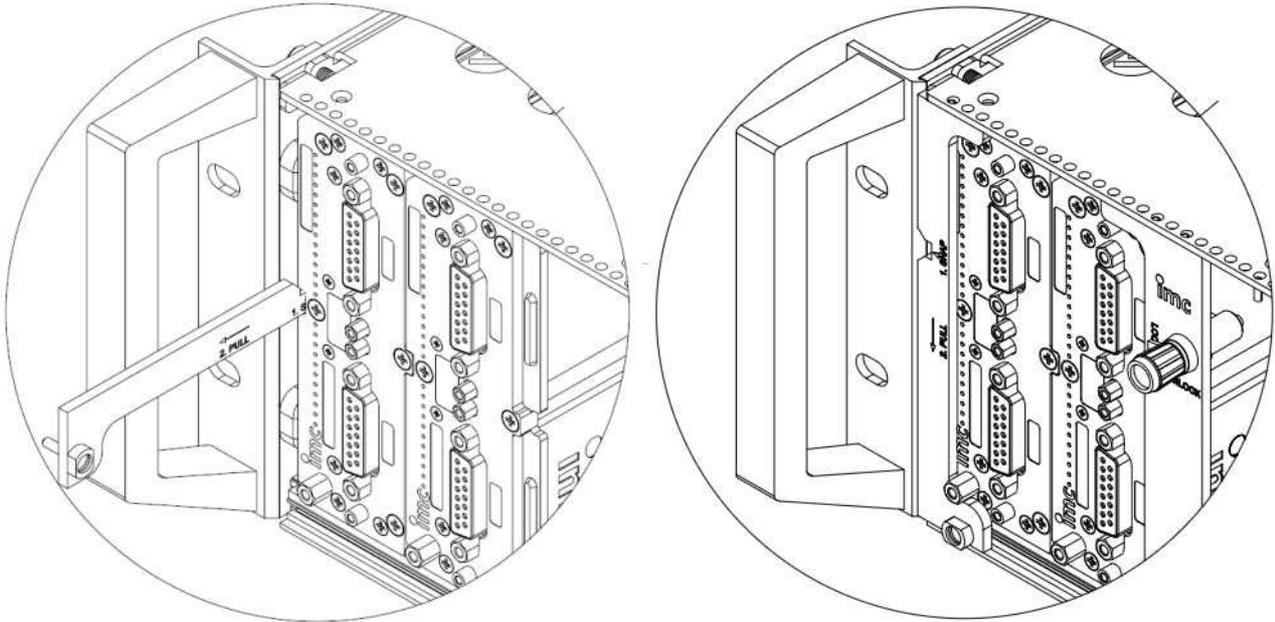
The left mounting element is inserted into the gap
as illustrated above.

Once the right mounting element has been removed, it is possible to hold the module stack on the right side in your hand. Then carefully pull the stack out of the rack, holding it on both sides.

Included accessories:

    1x CRFX/1/2-19"-RACK
    1x left mounting element
    1x right mounting element

Order Code: **CRFX/1/2-19"-RACK**   article number: 11900106

Mounting Bracket RACK (CRFX/BRACKET-RACK)

Function: angular bracket for 19" RACK

Attachment: 2 to 4 M4 screws

Properties:

This angular bracket is designed for the purpose of direct installation of a module block in a 19" RACK. The attachment is accomplished by means of either two or four M4 screws into the module's cover plate. For the reinforcement of the Click Mechanism, the interconnect bracket 13 is recommended (shown in the drawing below).

> **! Note**
>
> A total weight of a module block should not be more than 3 kg is not allowed!
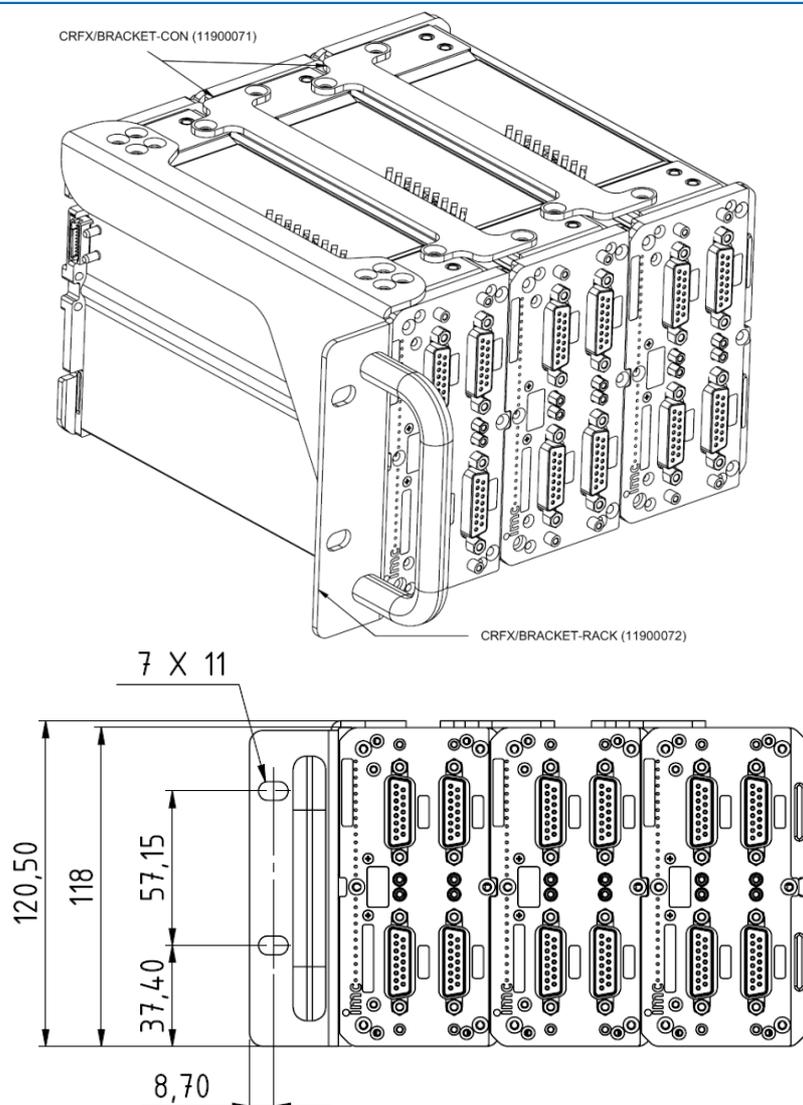
Included accessories:

    1x mounting bracket-rack

    4x recessed countersunk flat head screws M4x6

Order Code: **CRFX/BRACKET-RACK**   article number: 11900072

imc CRONOS-XT

An imc CRONOS-XT (CRXT) system is composed of a base unit plus a power supply module and one or more CRXT modules as well as the system locking handles (left and right) [23].

CRXT Base Unit shown in standard operating orientation: housing type XT3

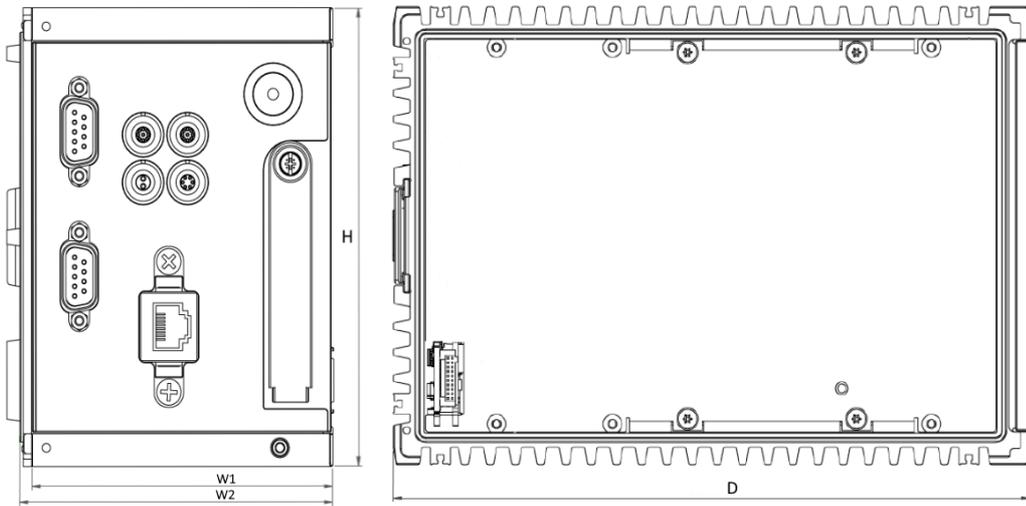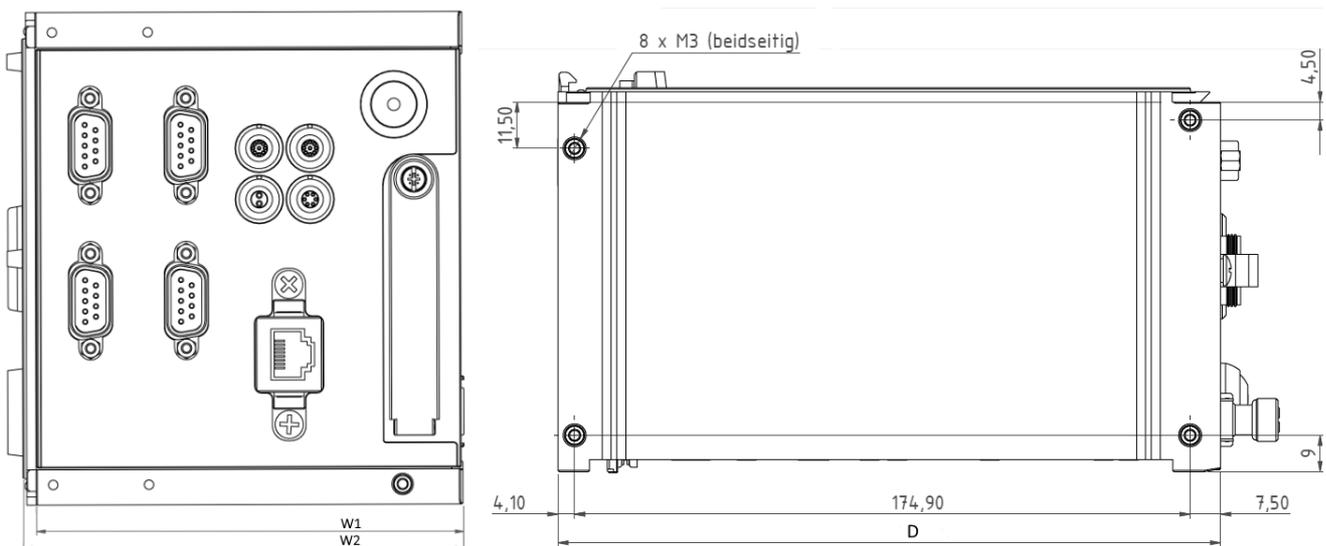| Housing type:	XT1	XT2	XT3	XT4	Remarks
W: Width in mm	30.5	61	91.5	116.9	W1: modular spacing (effective stacking width)
	34	64.5	95	120.4	W2: complete width
H: Height in mm	130				
D: Depth in mm	186.5				

The following figure (right) shows the CRXT base unit from above or below.

CRXT Base Unit: housing type XT4

The CRXT base units can be equipped with extra options: such expansions can be implemented in a maximum of three modules, which can only be ordered as factory options and are installed permanently. The base unit housings start with the type XT3, which can be equipped with a maximum of one extension. Starting with the second extension (XT4), each additional option widens the base unit by 25.4 mm. The available options are: Automotive buses: CAN FD, LIN

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Interconnect Bracket (CRXT-BRACKET-CON-xx)
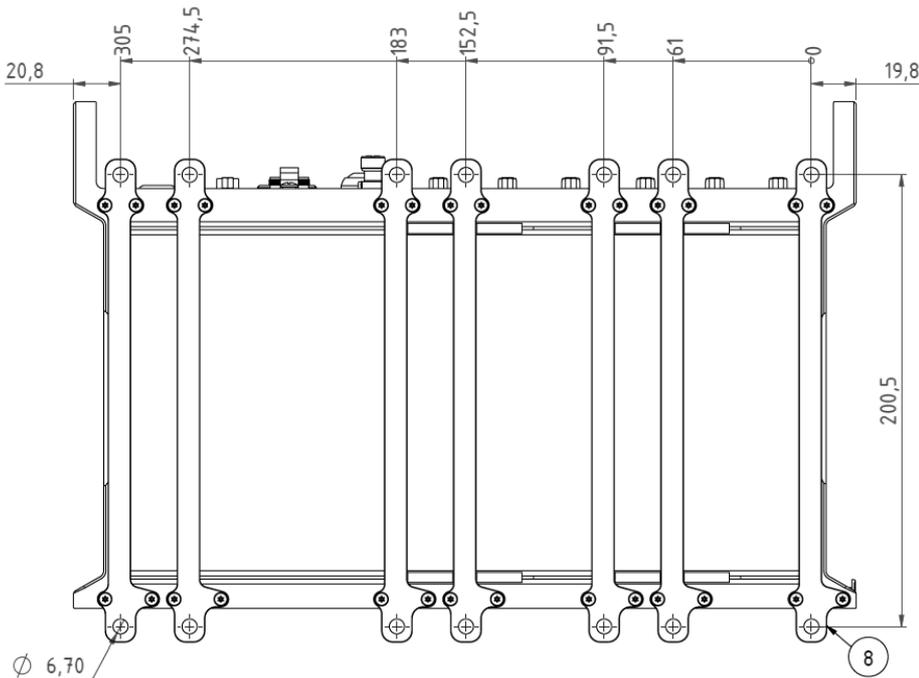
The connecting or stabilizing brackets (plates) for CRXT serve to **increase the stability and robustness** of the click mechanism between the slices.

They are attached at the top (item 7) and bottom (item 8) between the modules, whereby the lower plate (item 8) opens up additional fastening options on a base plate.

The stabilizing bracket (CRXT/BRACKET-CON, pos. 7) is included in the standard delivery.
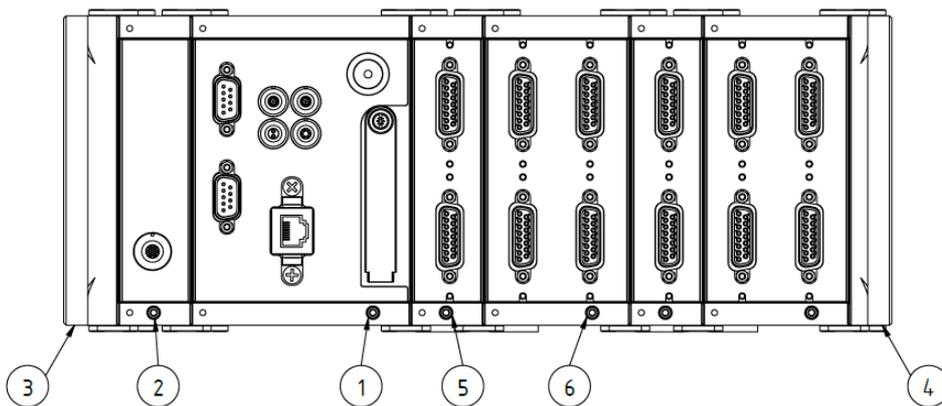
Four screws are always included with each stabilizing bracket pos. 9 (M3 screws). These screws must be tightened to a torque of approx. 1 Nm.
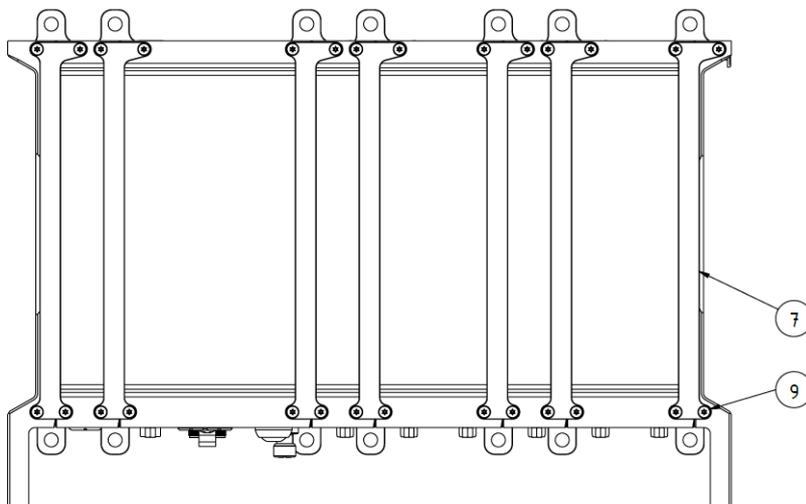
Item no.		article no.
1	CRXT-2000 Base Unit	11100001
2	CRXT/POWER, power supply	11100025

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Item no.		article no.
3	CRXT/HANDLE-L (left)	11100022
4	CRXT/HANDLE-R (right)	11100021
5	CRXT/LV3-8	11100018
6	CRXT/UNI2-8	11100015
7	CRXT/BRACKET-CON	11100040
8	CRXT/BRACKET-CON-BOT with additional fastening options on a base plate	11100084
9	self-locking screws M3x6	

Rubber bumper

On all of the imc CRONOS-XT modules the blue rubber bumper can be <u>removed and reinstalled</u> 26 just like the modules of the imc CANSAS*flex* series.

❗	Note	Before fastening stabilizing brackets

In order to fix the connecting brackets, the rubber bumper **must** be removed.

Handle-Set
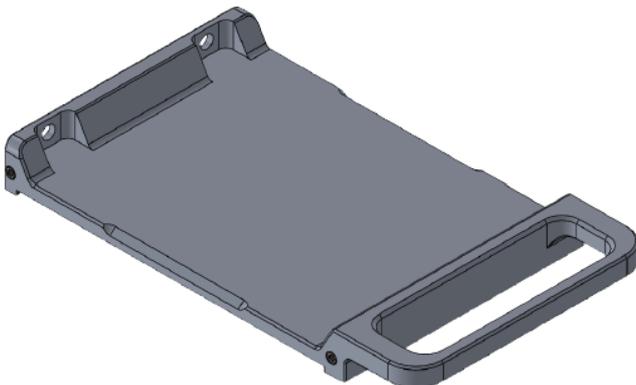
CRXT/HANDLE-L

CRXT/HANDLE-R

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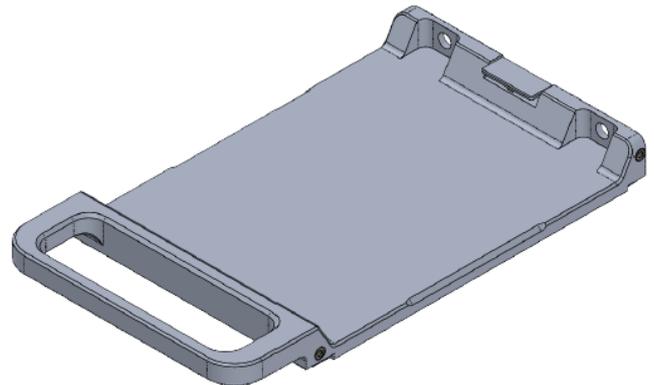
Handle-Set (L + R)

Function: handle and sealing cover left and right
Dimensions:
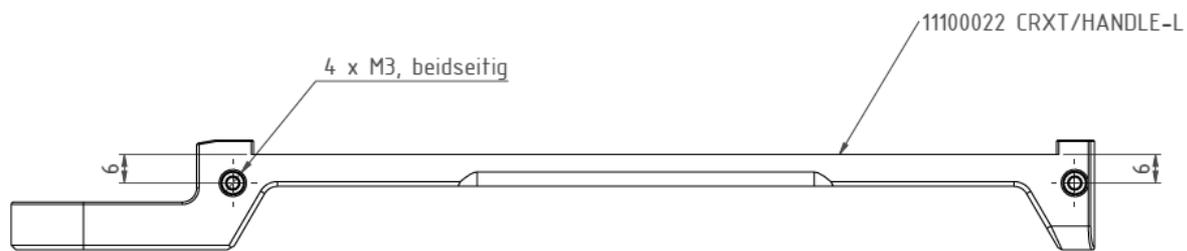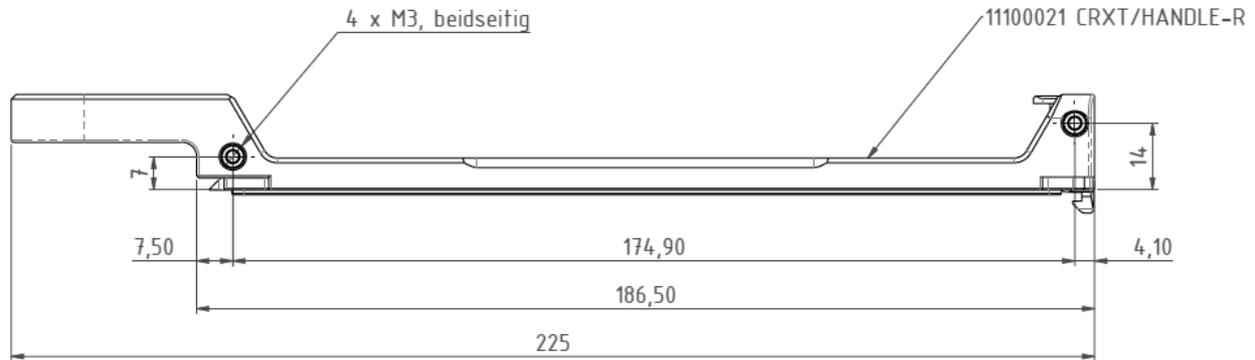
Handles (left and right): view from above
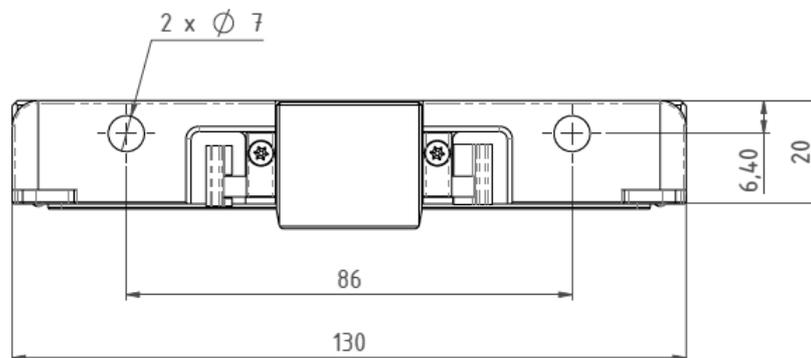
locking rocker (rear side of the handle)

Included accessories:

accessories are not necessary, the handles can be attached without the use of tools

Order Code		article no.
CRXT/HANDLE-R	handle and sealing cover right	11100021
CRXT/HANDLE-L	handle and sealing cover left	11100022

imc CANSASflex, imc BUSDAQflex

As a CAN-Bus-based measurement engineering tool, the imc CANSAS*flex* series offers a wide selection of measurement modules which process and digitize sensor signals and output these as CAN-messages.

The modules of the imc CANSAS*flex* series (CANFX) can be joined together mechanically and electrically by means of a latching ("click") mechanism, without the use of any tools nor the need for any extra cables, and also allows the CAN-logger imc BUSDAQ*flex* (BUSFX) to dock on directly. Depending on the module type, they are available in either long (L-), short, or both housing versions.

Click-mechanism:

- Modules joinable to module-blocks: mechanically and electrically connected (CAN and Power)
- No tools or additional cabling required
- With guide grooves, magnetic catches and locking slider
- Both short and long housing versions joinable:
  with electrical connection: align on rear side; mechanically only: align on front side

Mounting:

- Mountable by means of recessed threaded holes (M3), either individually or jointly as a block
- Rubber bumper rails providing secure placement in laboratory settings
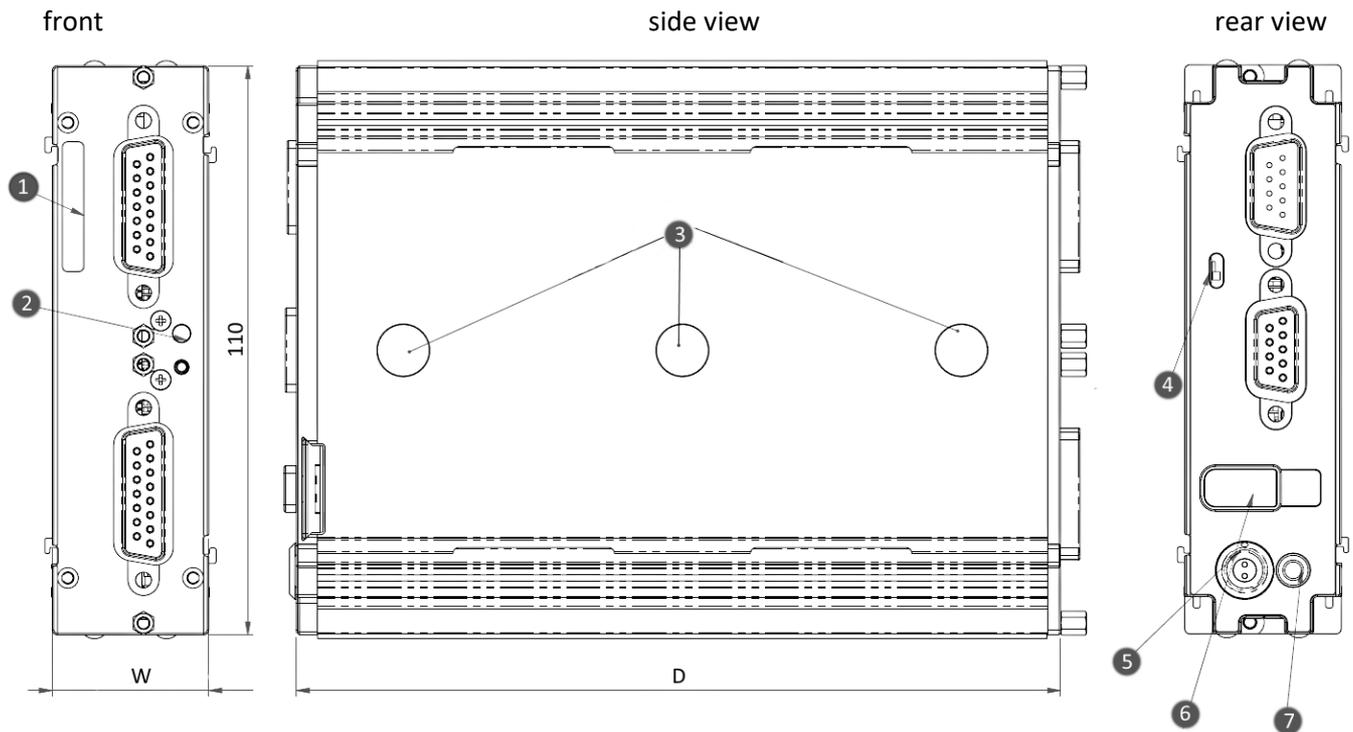
Shown in standard operating orientation: housing type L0; width (W) = 30 mm.

Housing type	S0	S1	S2	L0	L1	L2
W: Width	30 mm	50.3 mm	70.6 mm	30 mm	50.3 mm	70.6 mm
D: Depth	93 mm, with two magnets			146.5 mm, with three magnets		

Legend:

1: Serial number label

2: Status LED (blue / red)

3: magnet
   (depending on model)
4: adjustable CAN terminator

5: supply socket (LEMO)
6: locking slider CAN/supply
7: ground connection

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Detailed technical specs of each module is provided in separate technical data sheets.

Mechanical drawings with dimensions of the available imc BUSDAQ*flex* variants

Side view

Front

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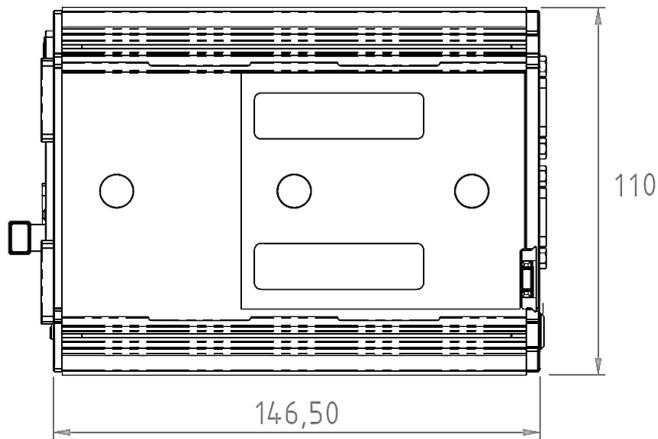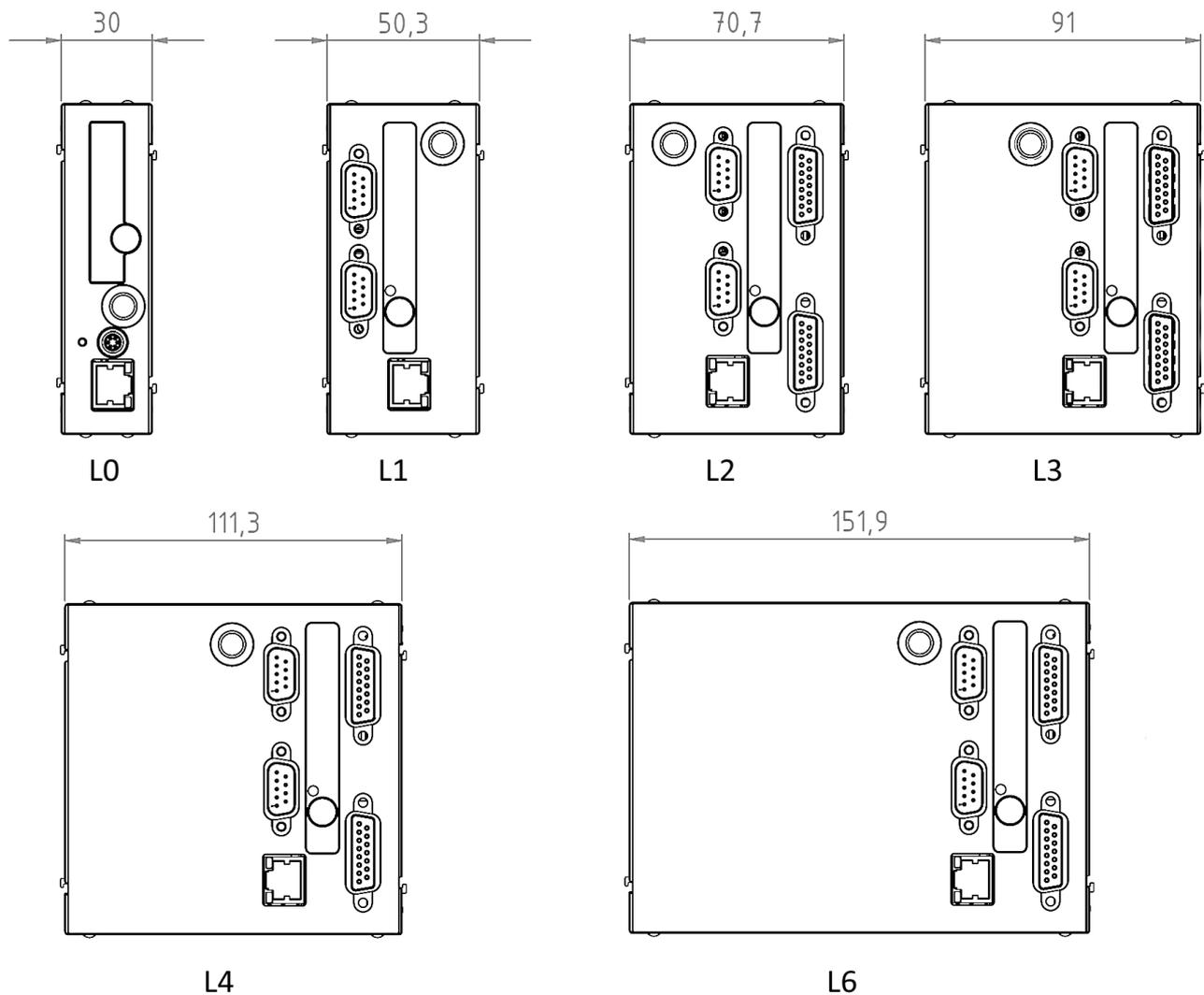
On all of the imc CANSAS*flex* series modules (CANFX) and on all imc BUSDAQ*flex* devices (BUSFX) the rubber bumpers can be removed. In order to access the mounting holes the rubber bumpers must first be removed.

Order Code: article number:

    CANFX/RUBBER-1M   12500029   rubber bumper, 1 m (blue silicone strip)

Mounting Bracket 180° (CANFX/BRACKET-180-XX)

Function: mounting on a flat surface

Angle: 180° flat

Properties:

These mounting elements are ideal for mounting a module on a flat surface.

For wall mounting, be careful regarding the number of modules clicked together.
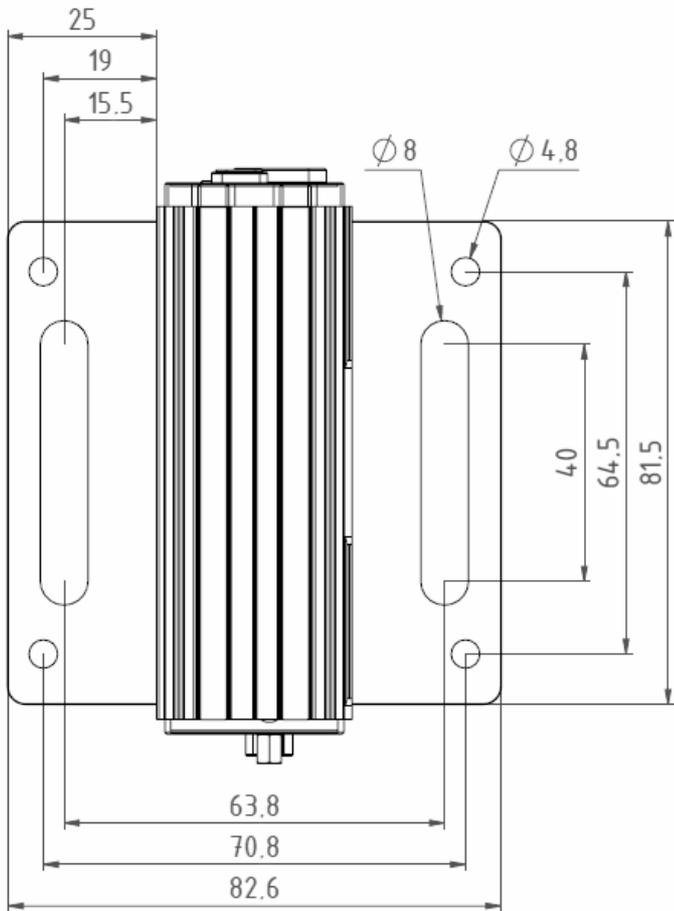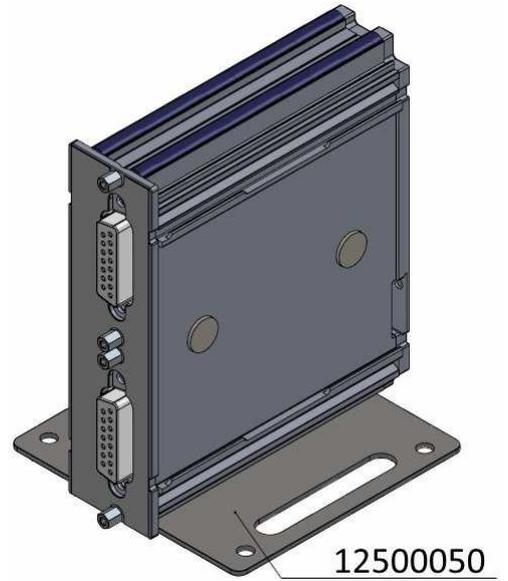
12500050

S0 and L0
S1 and L1 + 20.32
S2 and L2 + 40.64
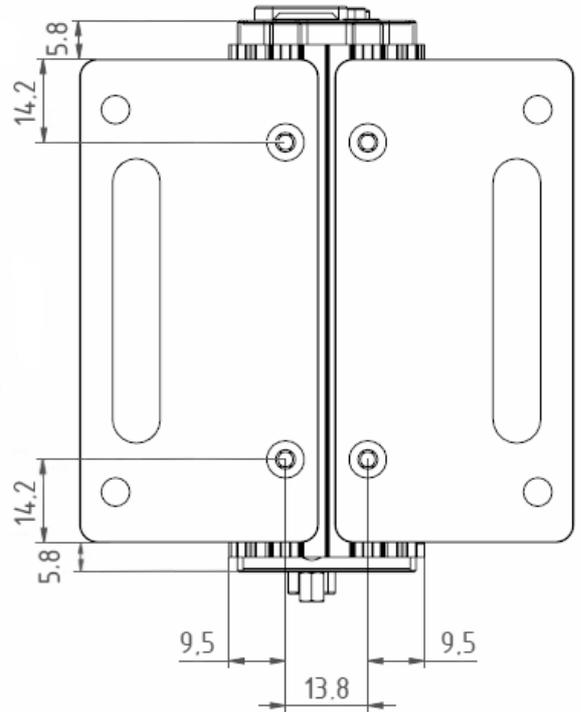
housing S0 and L0
housing S1 and L1 + 20.32
housing S2 and L2 + 40.64

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Function: mounting on a flat surface
Angle: 180° flat
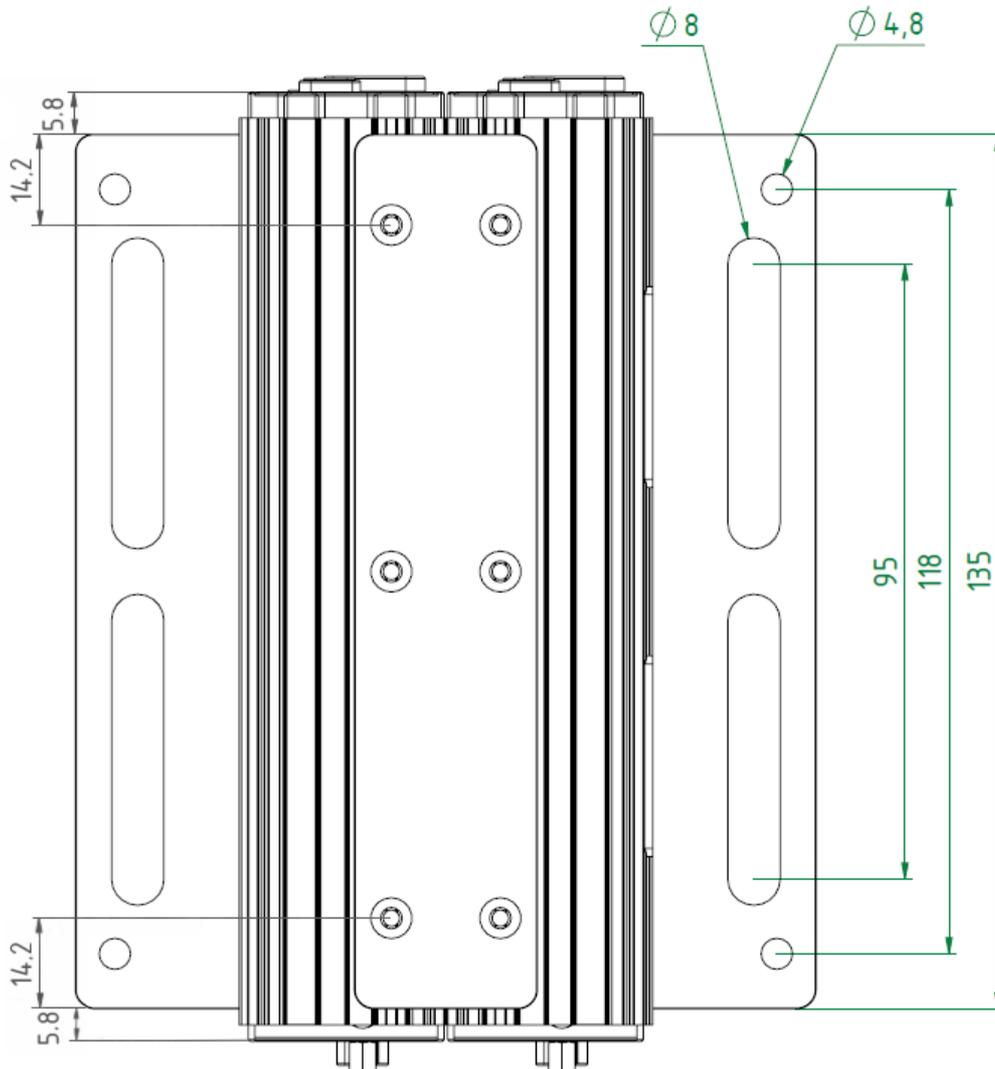
Included accessories (with 12500050, 12500052):

1x mounting bracket 180°

2x recessed countersunk flat head screws M3x5

Order Code: article number:
  CANFX/BRACKET-180-S   12500050   for short ⧉ imc CANSAS*flex* modules (housing "S")
  CANFX/BRACKET-180-L   12500052   for long ⧉ imc CANSAS*flex* modules (housing "L")

Mounting Bracket 90° (CANFX/BRACKET-90-XX)

Function: mounting on a flat surface

Angle: 90° angular

Properties:

These mounting elements are ideal for mounting a module on a flat surface. The mounting of the modules can be realized with two M3 screws at the module and two on the surface.

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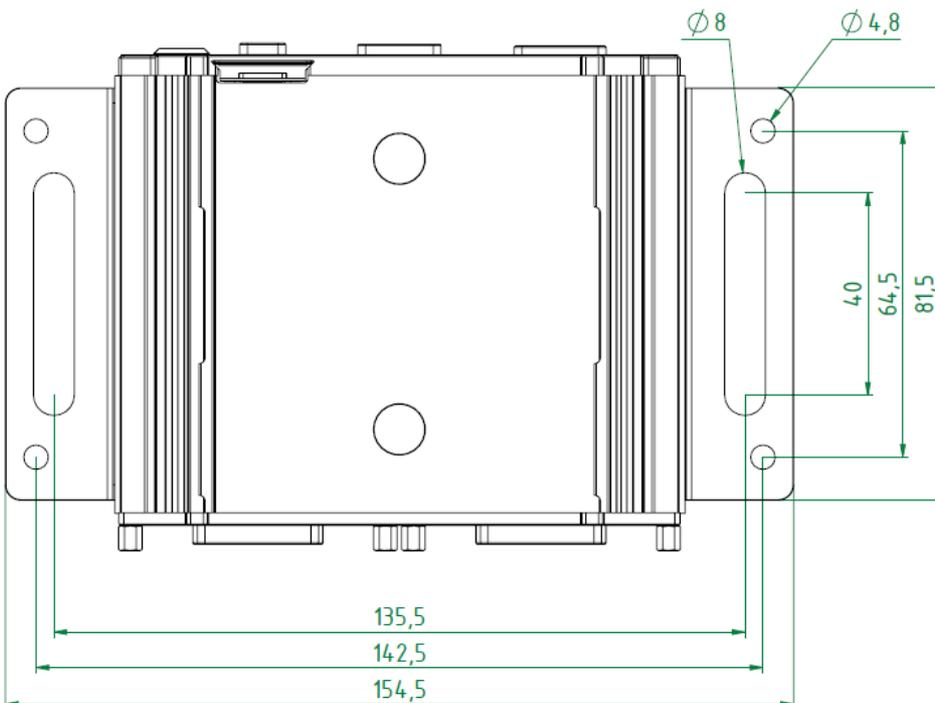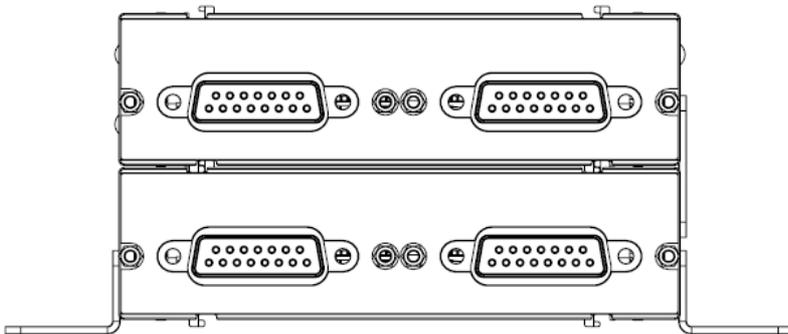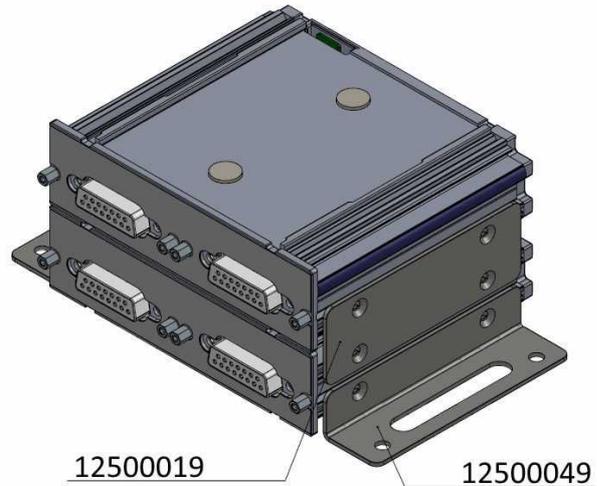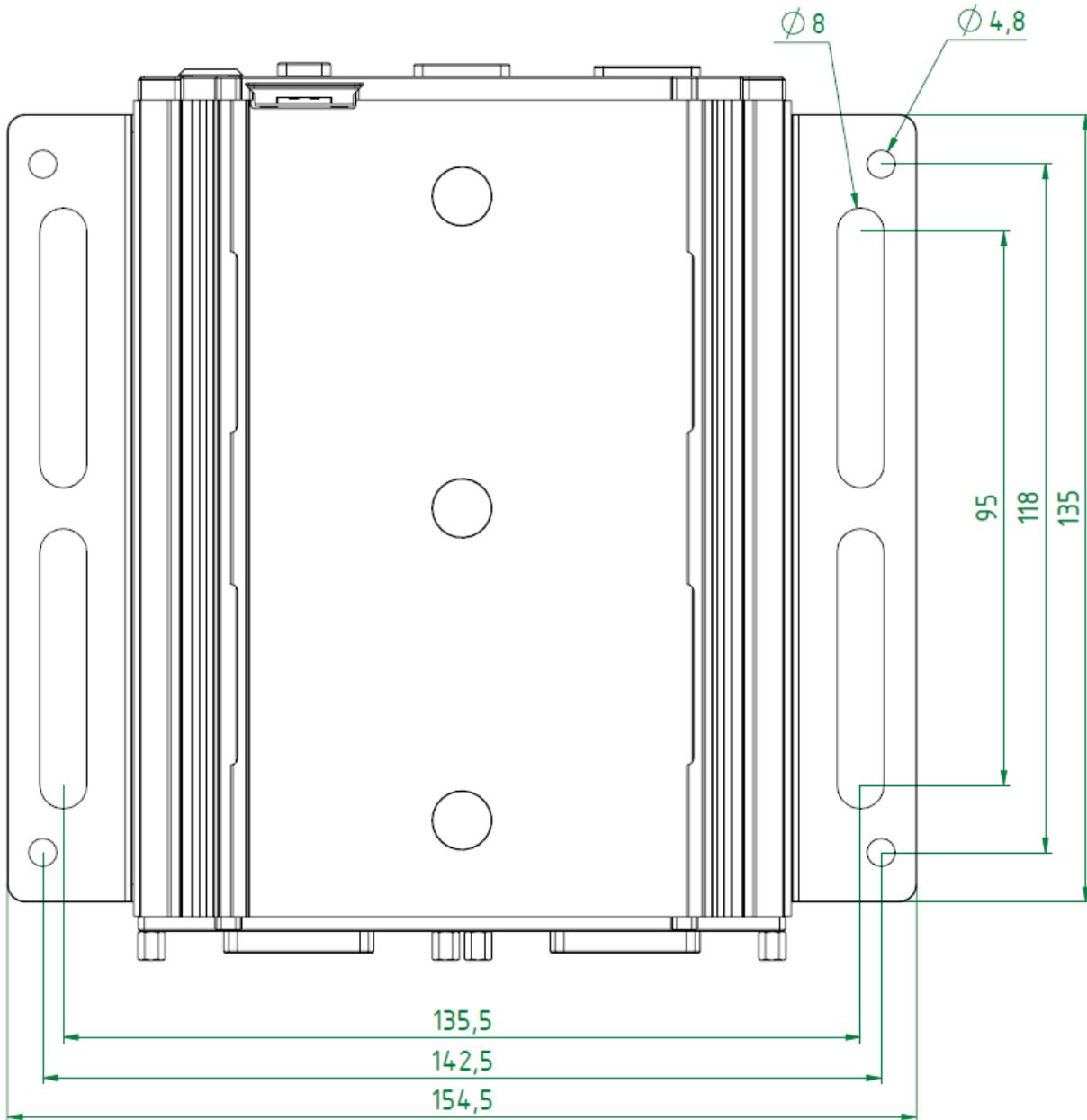
Included accessories (with 12500049, 12500051):

  1x mounting bracket 90°

  2x recessed countersunk flat head screws M3x5

Order Code: article number:
  CANFX/BRACKET-90-S   12500049   for short [24] imc CANSAS*flex* modules (housing "S")
  CANFX/BRACKET-90-L   12500051   for long [24] imc CANSAS*flex* modules (housing "L")

Interconnect Bracket (CANFX/BRACKET-CON)

Function:	connection with the module, for reinforcing the Click Mechanism
Angle:	180° flat
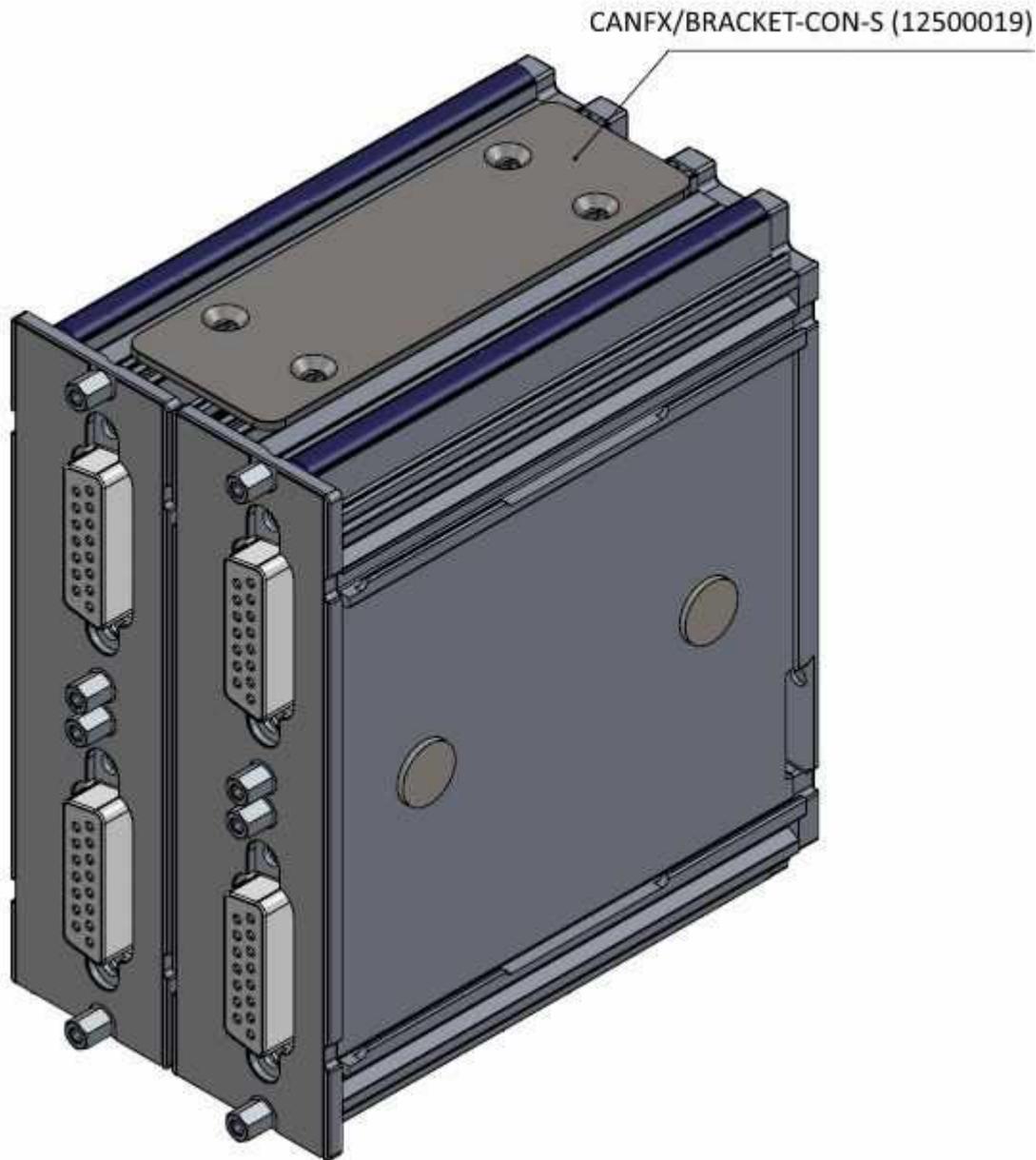
CANFX/BRACKET-CON-S (12500019)

Included accessories:

1x interconnect bracket

4x recessed countersunk flat head screws M3x5

Order Code: article nubmer:

CANFX/BRACKET-CON-S	12500019	for short 24 imc CANSAS*flex* modules (housing "S")
CANFX/BRACKET-CON-L	12500020	for long 24 imc CANSAS*flex* modules (housing "L"), as well as for imc BUSDAQ*flex* (BUSFX, housing "L")

Handle-Set (L + R)

Function: handle left and right

Properties:

The handles are attached to the modules without the use of tools.
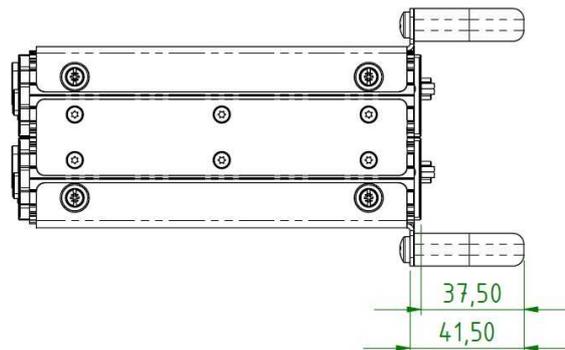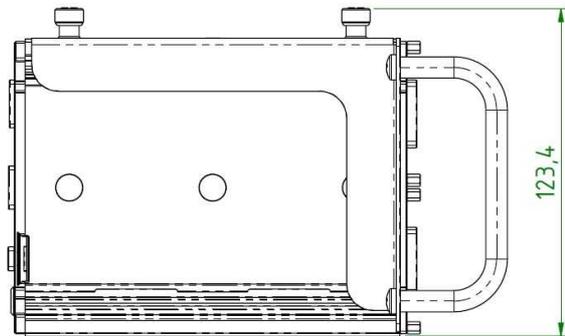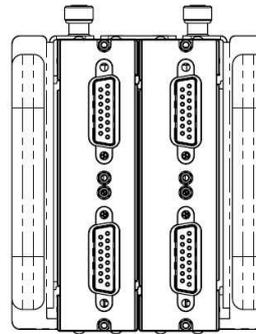
Included accessories:

accessories are not necessary, the handles can be attached without the use of tools

Order Code:	article number:	
CANFX/HANDLE-S	12500027	for short [24] imc CANSAS*flex* modules (housing "S")
CANFX/HANDLE-L	12500028	for long [24] imc CANSAS*flex* modules (housing "L"), as well as for imc BUSDAQ*flex* (BUSFX, housing "L")

Mounting to DIN-Rail (CANFX/BRACKET-DIN)

Function: mounting to DIN-Rail

Properties:

The mounting plate for the DIN Rail Clamp is secured to the imc CANSAS*flex* module (CANFX) or imc BUSDAQ*flex* (BUSFX) using four screws. The DIN Rail clamp is secured to the mounting plate with two screws
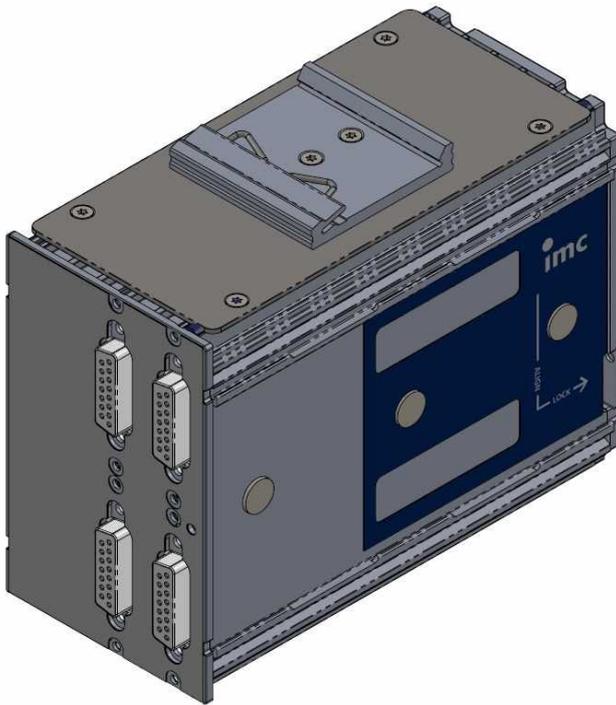
Included accessories

for CANFX/BRACKET-DIN-L6	for all the others:
1x mounting plate	1x mounting plate
1x DIN-Rail clamp	2x DIN-Rail clamp
4x recessed countersunk screw M3x5	4x recessed countersunk screw M3x5
2x recessed countersunk screw M3x6	4x recessed countersunk screw M3x6

Order Code: article number:

Order Code	article number	
CANFX/BRACKET-DIN-S0	12500021	CANFX DIN-Rail Set for housing S0
CANFX/BRACKET-DIN-S1	12500022	CANFX DIN-Rail Set for housing S1
CANFX/BRACKET-DIN-S2	12500023	CANFX DIN-Rail Set for housing S2
CANFX/BRACKET-DIN-L0	12500024	CANFX as well as BUSFX DIN-Rail Set for housing L0
CANFX/BRACKET-DIN-L1	12500025	CANFX as well as BUSFX DIN-Rail Set for housing L1
CANFX/BRACKET-DIN-L2	12500026	CANFX as well as BUSFX DIN-Rail Set for housing L2
CANFX/BRACKET-DIN-L3	12500090	CANFX as well as BUSFX DIN-Rail Set for housing L3
CANFX/BRACKET-DIN-L4	12500079	CANFX as well as BUSFX DIN-Rail Set for housing L4
CANFX/BRACKET-DIN-L6	12500080	CANFX as well as BUSFX DIN-Rail Set for housing L6

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19" RACK (CANFX/RACK)

The imc CANSAS*flex* 19" subrack (CANFX/RACK) is suitable for the imc CANSAS*flex* and CANSAS*fdx* modules of housing type L, with a depth of 146.5 mm. A maximum of 10 CANFX/L or CANFDX/L modules of housing type L0 [24] can be inserted into this CANFX/RACK.
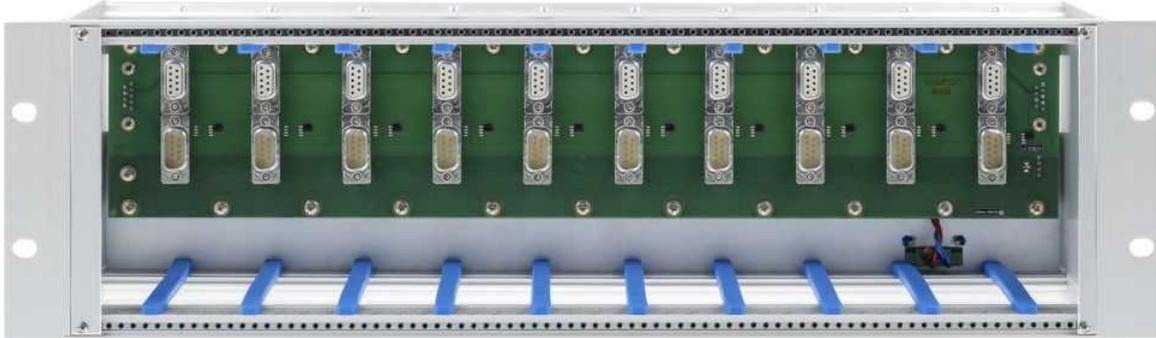
!	Note	Mounting: CANFX/RACK

Before inserting the modules into the RACK via the guide rails and connecting them to the backplane, attach the cover frames (1) to the front of the module. This locking of the frame to the front of the module is done with four small drop swords or hooks on the back of the frame. The bolting (3) of the frame to the RACK is also tool-free.

The modules which are inserted into the subrack must not be connected to each other via click mechanism.

Legend:

1	cover frames, CANFX/RACK-FRAME-L4
2	bracket for pulling out the modules
3	screw connection of the frame to the CANFX/RACK

CANFX/RACK article no: 12500094, Plug in **individual** modules, CAN & Power via **backplane** [35], **Slot** recognition/detection [37]

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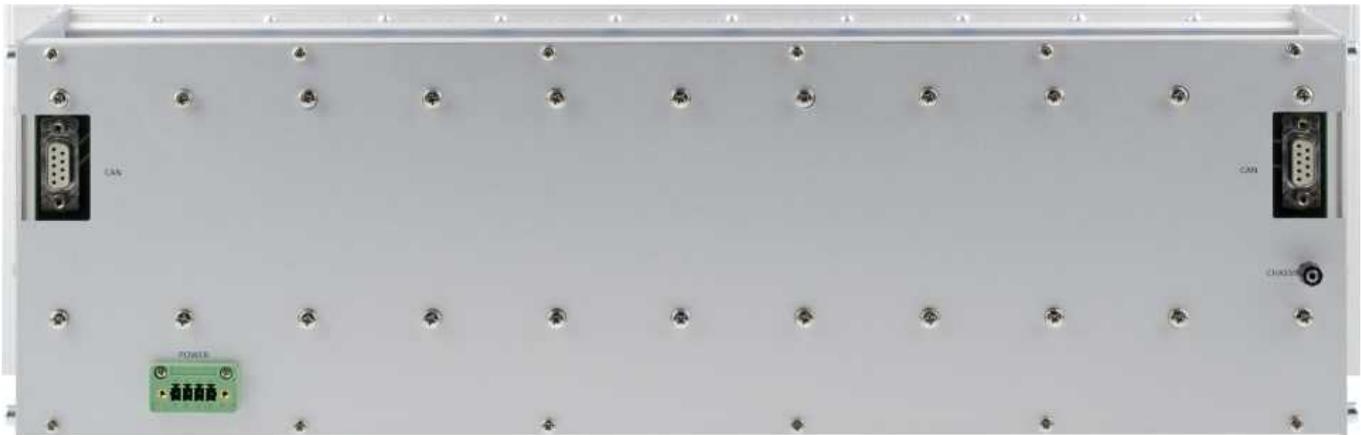
Rear side: CANFX/RACK (12500094)

> ⓘ **Note**
>
> The direct connection of a CAN interface with an additional power supply to a module slot on the PCB ⌐34⌐ is not permitted!

Power

The modules are powered via the Phoenix socket on the rear of the CANFX/RACK.

Pin (Front view)	Signal	Remarks
1 (left)	-SUPPLY	0 V
2	-SUPPLY	0 V
3	+SUPPLY	10 V to 50 V DC
4 (right)	+SUPPLY	10 V to 50 V DC

POWER

Phoenix COMBICON MC1.5/4-GF-3.81
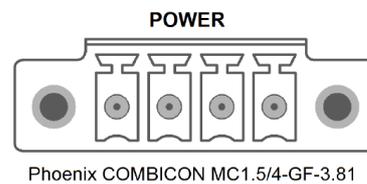
Accessories

Included accessories:

1x CAN/POWER-PLUG (10500024), Phoenix 4-pin

1x CAN/TERMI, CAN-Bus terminator (10500028)

1x Modem cable for the extended operating temperature range

Optional accessories:

CAN/POWER-SUPPLY	10500022	AC/DC power adaptor 110-230V AC (with Phoenix plug), 24 V DC, 60 W
CANFX/RACK-FRAME-L0	12500096	CANFX frame set for housing type L0
CANFX/RACK-FRAME-L1	12500097	CANFX frame set for housing type L1
CANFX/RACK-FRAME-L2	12500093	CANFX frame set for housing type L2
CANFX/RACK-FRAME-L4	12500098	CANFX frame set for housing type L4 (z.B. CANFX/L-P8-GX)
CANFX/RACK-DUMMY-L0	12500102	blind frame (front) L0: 40.3 mm for covering open slots

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Mounting accessories for imc devices
Technical Data Sheet

Dimensions

Front CANFX/RACK (12500094)

from above

Side

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Slot detection - Slot identification

The CANFX/RACK is equipped with an integrated slot detection. There is a data storage component for each slot on the "backplane" PCB of the rack. The imc CANSAS software can query the contents of the data storage component. When using several racks (carriers), each rack can be assigned a level number ("X", see slot: Floor / Position).

This ensures the position of a module in the subrack on a specific level (tier).

CAN OUT

	1
CAN_GND	6
CAN_L	2
CAN_H	7
CAN_GND	3
	8
	4
	9
	5

D-SUB-9 female / front view

Chassis

CAN IN

-SUPPLY	5
1W-EEPROM	9
CAN_RST	4
CAN_SYNC	8
	3
	7
	2
	6
+SUPPLY	1

D-SUB-9 male / front view

Chassis

Pin configuration - 19" Rack CAN IN and CAN OUT

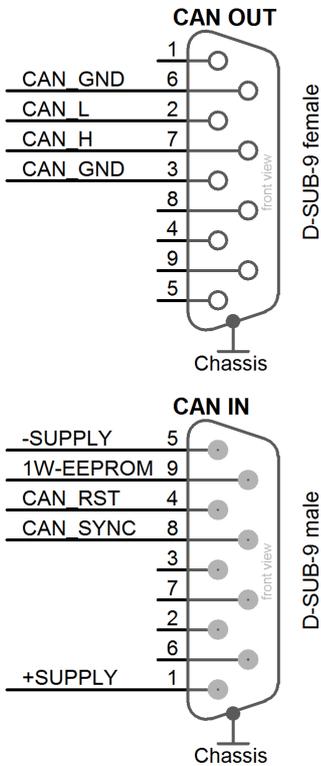| PIN	CAN IN	CAN OUT	Remarks
1	+SUPPLY	n.c.	
2	n.c.	CAN_L	dominant low bus line
3	n.c.	CAN_GND	CAN Ground, reference for CAN-Bus
4	CAN_RST	n.c.	
5	-SUPPLY	n.c.	
6	n.c.	CAN_GND	connected with pin 3
7	n.c.	CAN_H	dominant high bus line
8	CAN_SYNC	n.c.	imc specific: additional cable for the synchronization signal (1 Hz).
9	1Wire EEPROM	n.c.	

Technical Specs

Parameter	CANFX/RACK	Remarks
for imc CANSAS housing	CANFX-L housing	each in connection with CANFX/RACK-FRAME-Lx
Operating temperature	-40°C to 85°C	
Slots	10	for example module with housing type L0 24 or 5 modules of type L2 per rack
Socket Power supply	Phoenix (4-pin) MC 1.5/4STF-3.81 10 .. 50 V DC	
Socket CAN	DSUB-9 m/w	
Side panel	angular bracket	
Contact pin for grounding	yes	
imc article no.	12500094	
Dimension	436 x 133 x 182 mm	W x H x D
Weight	2 kg	

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19" RACK BLOCK (CANFX/RACK-BLOCK)

The CANFX/RACK-BLOCK is designed for inserting connected module blocks imc CANSAS*flex* (CANFX) and imc BUSDAQ*flex* (BUSFX). This 19" subrack is designed without backplane and without slots. This distinguishes this subrack from the [CANFX/RACK](#) 34.
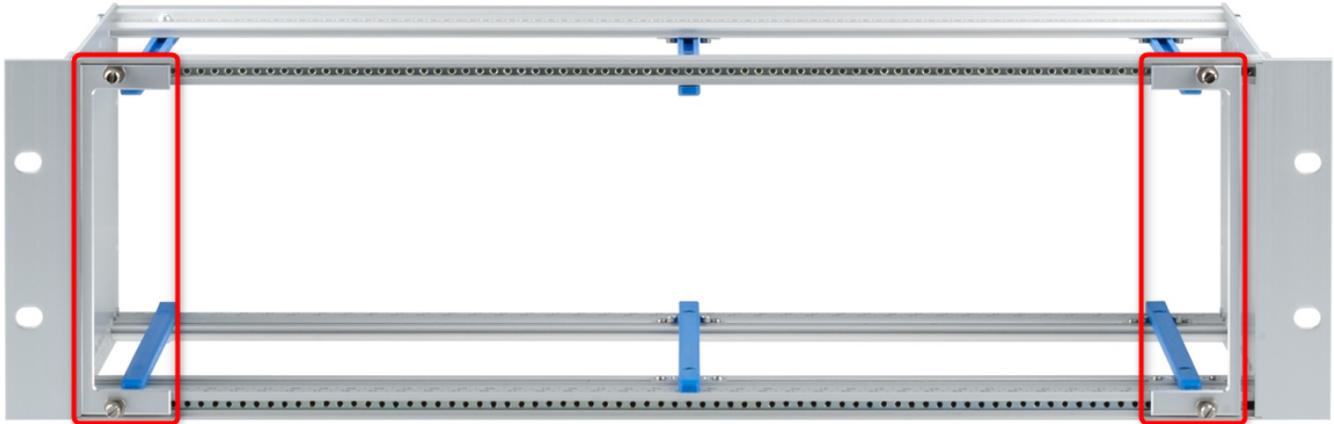
The two fastening elements (framed red on the photo above) are used to hold the module block in addition to the sliding guide rails (blue).

Assembly instruction

It is recommended to position one pair of guide rails on the left, one pair of guide rails in the middle and one pair of guide rails on the right of the connected module block. For alignment, also use the scale on the connecting rails of the subrack.

After inserting the modules into the subrack, both fastening elements are to be mounted without any tools on the sides of the connected module block.
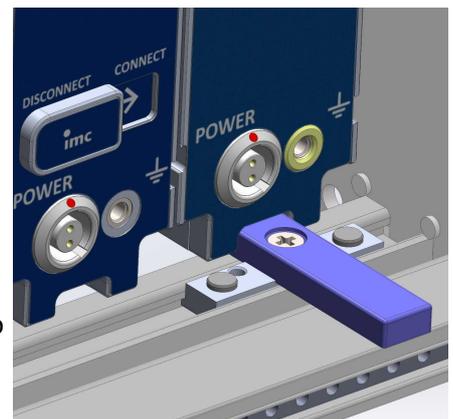
The CAN connection and power supply of the module block is done via the [click connection](#) 24.

CANFX/RACK-BLOCK   article no. 12500103

Included accessories:

   1x ACC/POWER-PLUG3, article no. 13500033, LEMO.0B plug for the power supply

Optional accessories:

CANFX/RACK-DUMMY-L0 article no. 12500102,

Dummy frame set (front) L0: 40.3 mm to cover

Dimensions
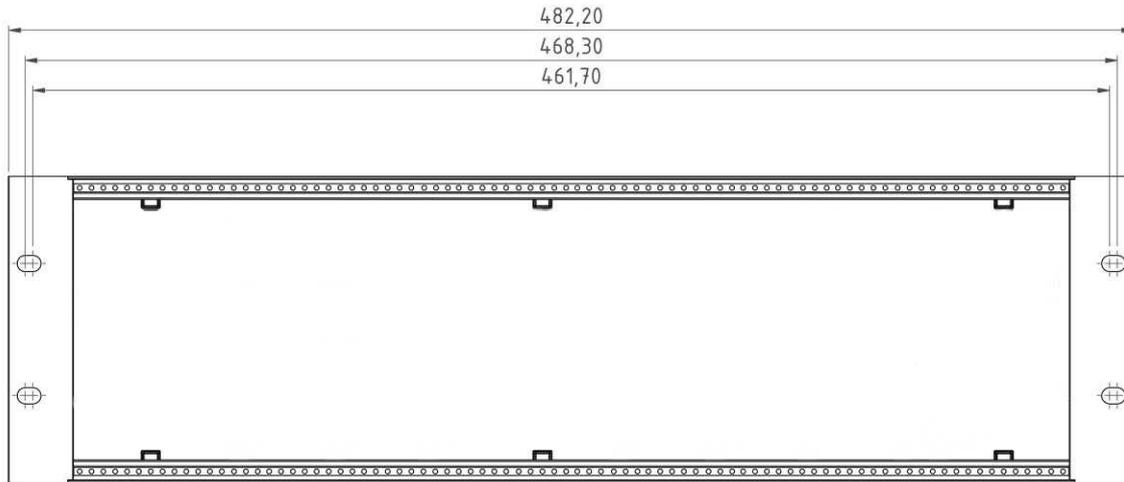
Front CANFX/RACK-BLOCK

From the top; with three pairs of adjustable guide rails

Side view

Weight: 1 kg

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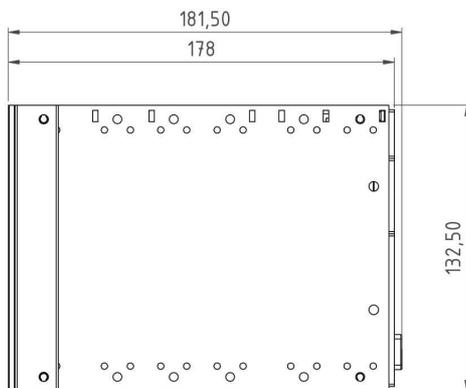
CANFX/PORTABLE-RACK

The CANFX/PORTABLE-RACK is a carrying case or tabletop unit for imc CANSAS*flex* modules of housing type L (module depth of 146.5 mm). The modules inserted are supplied and connected to the CAN bus via the rear panel. Slot detection is supported by the imc CANSAS software. A maximum of 10 modules of housing type L1 (module width of 50.3 mm) can be used.
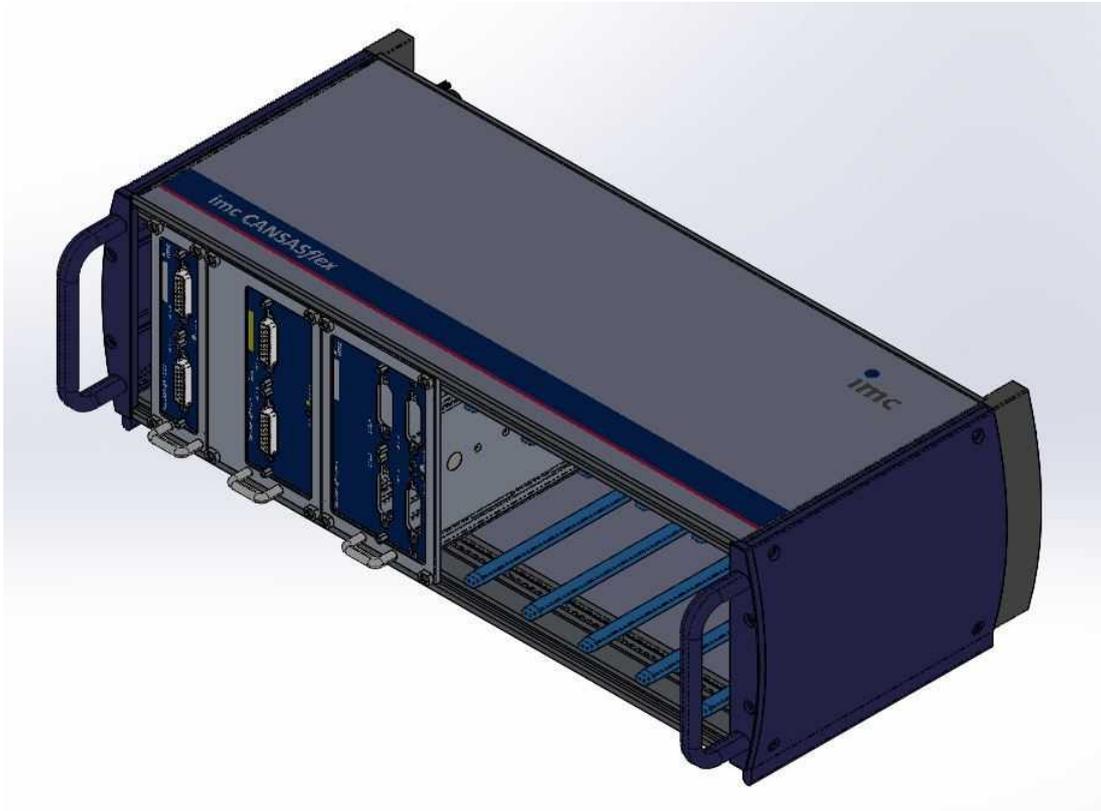
CANFX/PORTABLE-RACK - imc Artikel Nr. 12500144

⚠ Note	Mounting: CANFX/PORTABLE-RACK

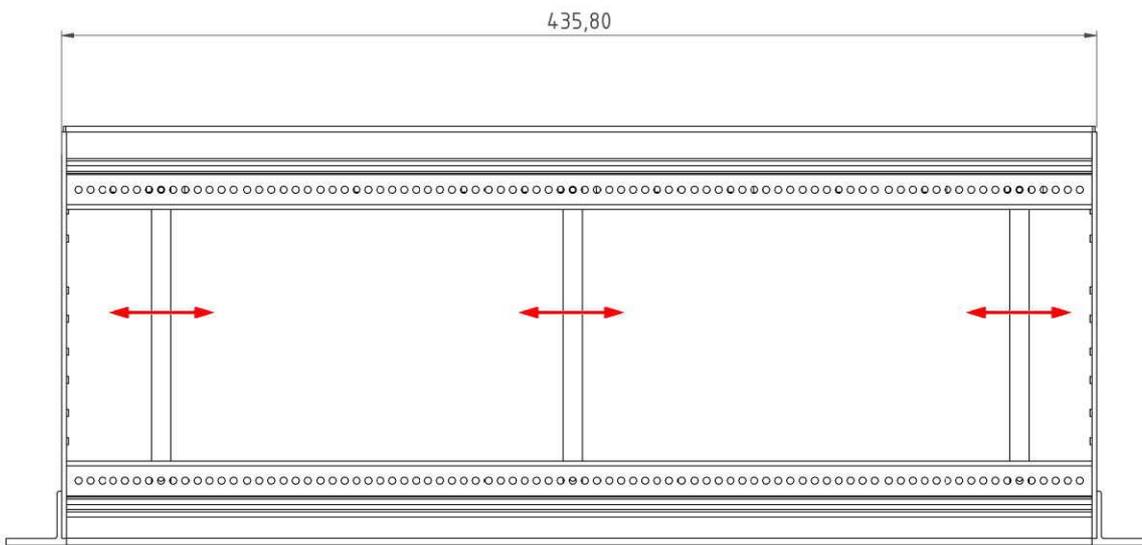Before inserting the modules into the RACK via the guide rails and connecting them to the backplane, attach the cover frames to the front of the module. This locking of the frame to the front of the module is done with four small drop swords or hooks on the back of the frame. The bolting of the frame to the RACK is also tool-free.

The modules which are inserted into the subrack must not be connected to each other via click mechanism.

Power

The modules are powered via the Phoenix socket on the rear of the CANFX/PORTABLE-RACK.

| Pin
(Front view)	Signal	Remarks
1 (left)	-SUPPLY	0 V
2	-SUPPLY	0 V
3	+SUPPLY	10 V to 50 V DC
4 (right)	+SUPPLY	10 V to 50 V DC
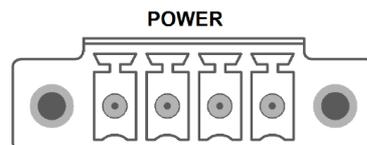
POWER

Phoenix COMBICON MC1.5/4-GF-3.81

Accessories

Included accessories:

Optional accessories:

CAN/POWER-SUPPLY	10500022	AC/DC power adaptor 110-230V AC (with Phoenix plug), 24 V DC, 60 W
CANFX/RACK-FRAME-L0	12500096	CANFX frame set for housing type L0
CANFX/RACK-FRAME-L1	12500097	CANFX frame set for housing type L1
CANFX/RACK-FRAME-L2	12500093	CANFX frame set for housing type L2
CANFX/RACK-FRAME-L4	12500098	CANFX frame set for housing type L4 (z.B. CANFX/L-P8-GX)
CANFX/RACK-DUMMY-L0	12500102	blind frame (front) L0: 40.3 mm for covering open slots

Dimensions

Front

Side

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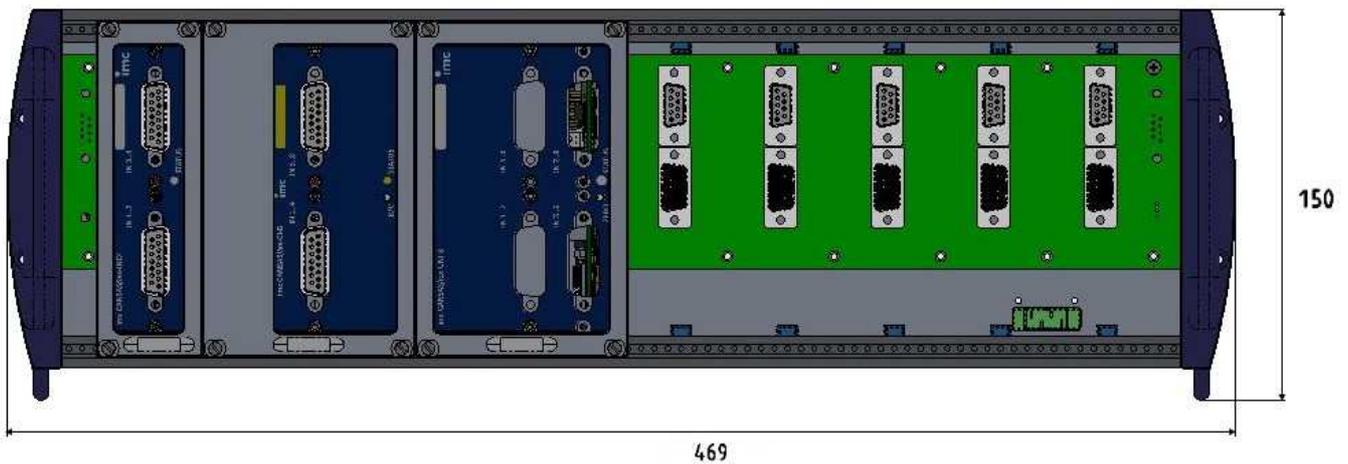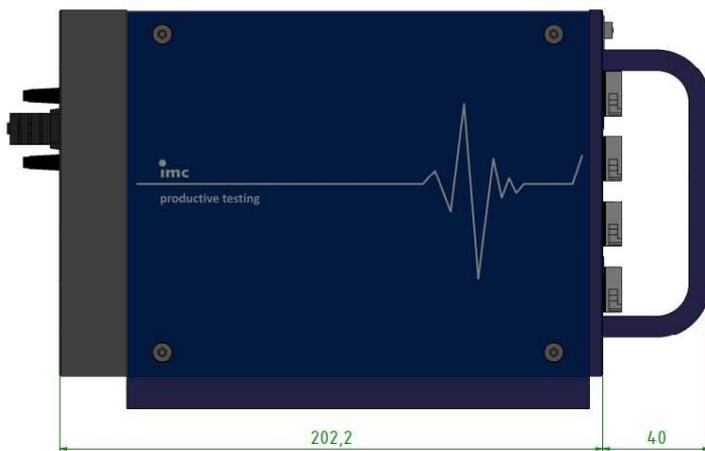
Slot detection - Slot identification

The CANFX/PORTABLE-RACK is equipped with an integrated slot detection.

CAN OUT

CAN_GND	6
CAN_L	2
CAN_H	7
CAN_GND	3

D-SUB-9 female

1 / 8 / 4 / 9 / 5

Chassis

CAN IN

-SUPPLY	5
1W-EEPROM	9
CAN_RST	4
CAN_SYNC	8
+SUPPLY	1

D-SUB-9 male

3 / 7 / 2 / 6

Chassis

Pin configuration - 19" Rack CAN IN and CAN OUT

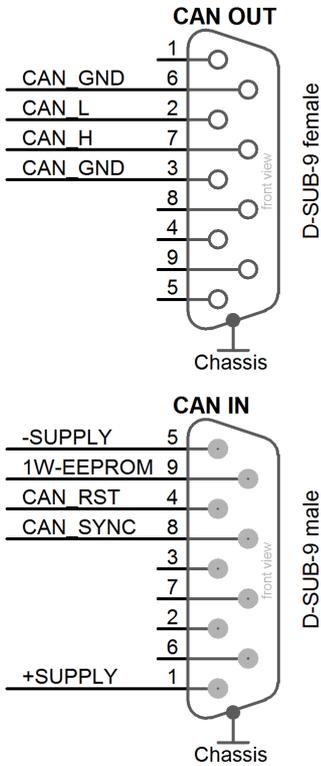| PIN	CAN IN	CAN OUT	Remarks
1	+SUPPLY	n.c.	
2	n.c.	CAN_L	dominant low bus line
3	n.c.	CAN_GND	CAN Ground, reference for CAN-Bus
4	CAN_RST	n.c.	
5	-SUPPLY	n.c.	
6	n.c.	CAN_GND	connected with pin 3
7	n.c.	CAN_H	dominant high bus line
8	CAN_SYNC	n.c.	imc specific: additional cable for the synchronization signal (1 Hz).
9	1Wire EEPROM	n.c.	

Technical Specs

Parameter	CANFX/PORTABLE-RACK	Remarks
for imc CANSAS housing	CANFX-L housing	each in connection with CANFX/RACK-FRAME-Lx
Operating temperature	-40°C to 85°C	
Slots	10	for example module with housing type L0 [24] or 5 modules of type L2 per rack
Socket Power supply	Phoenix (4-pin) MC 1.5/4STF-3.81 10 .. 50 V DC	
Socket CAN	DSUB-9 m/w	
Side panel	round panel	
Contact pin for grounding	yes	
imc article no.	12500144	
Dimension	469 x 150 x 202.2 mm	W x H x D

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imc CANSASfit, imc ARGUSfit

Based on an imc ARGUS*fit* base unit, imc ARGUS*fit* measurement amplifier and interface modules can be combined to form complete systems by means of a robust click mechanism, which can even integrate imc CANSAS*fit* modules. The click connectors provide the electrical connection to the power supply and system bus.

For expansion to decentralized distributed topologies, the fast internal ARGFT system bus can be converted to fiber optic cables by means of a clickable fiber converter module.

The entire system can be controlled via a common Ethernet connection (LAN/WLAN) with a PC (imc STUDIO software) and can be networked and operated synchronously and uniformly with all other imc data acquisition instrument series. Furthermore, it can also be operated autonomously and stand-alone without PC with data storage on microSD.

Dimensions
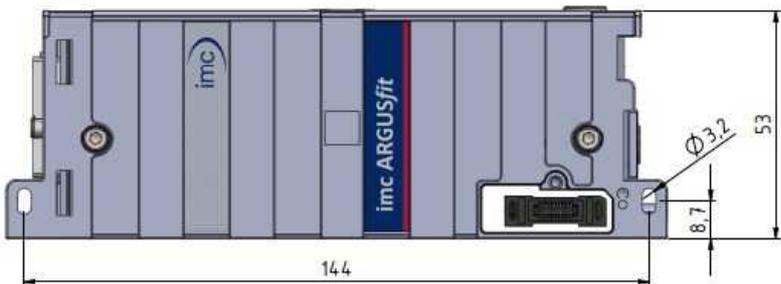
Module shown in standard operating position (terminal connections upwards)

The mechanical dimensions of the imc CANSAS*fit* modules correspond to those of the ARGUS*fit* modules.
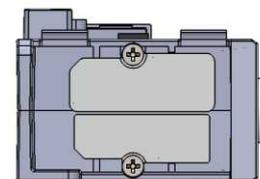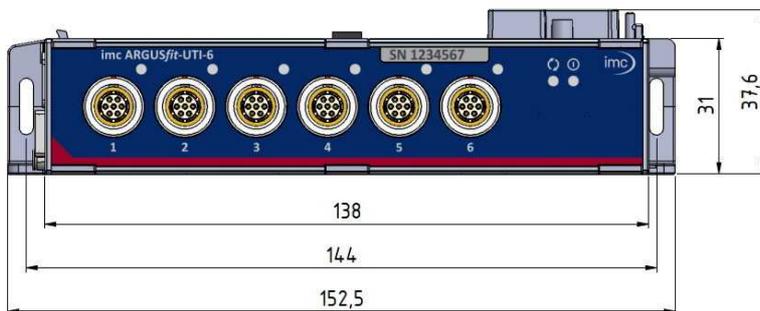
left module panel with parking position for the covers of the module connectors

As a CAN-Bus-based test and measurement tool, the **imc CANSAS*fit* series** offers a selection of measurement modules which precondition and digitize sensor signals and output these as CAN messages. Their design, the resistance to extreme environmental conditions and the supported sensors and signals make them particularly suited for applications in the fields of automotive engineering, vehicle testing, road trials and measurements on mobile machines.

For technical data of the individual modules, please refer to the corresponding data sheets.

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Mounting options:

Fastening eyelets provided for installation with cable ties, screws or bolts
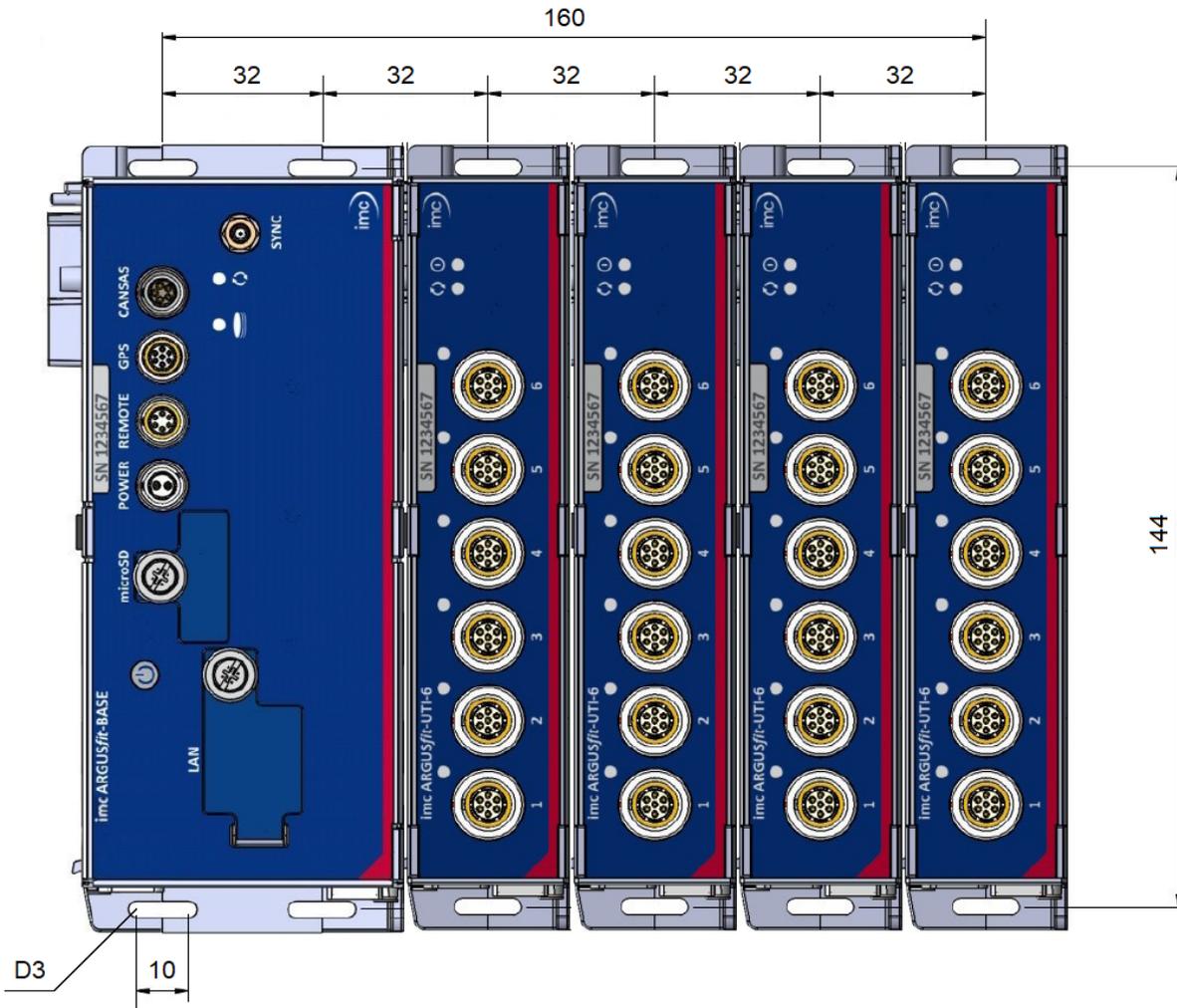
The specified module width of 31 mm does not represent the distance between modules clicked together.
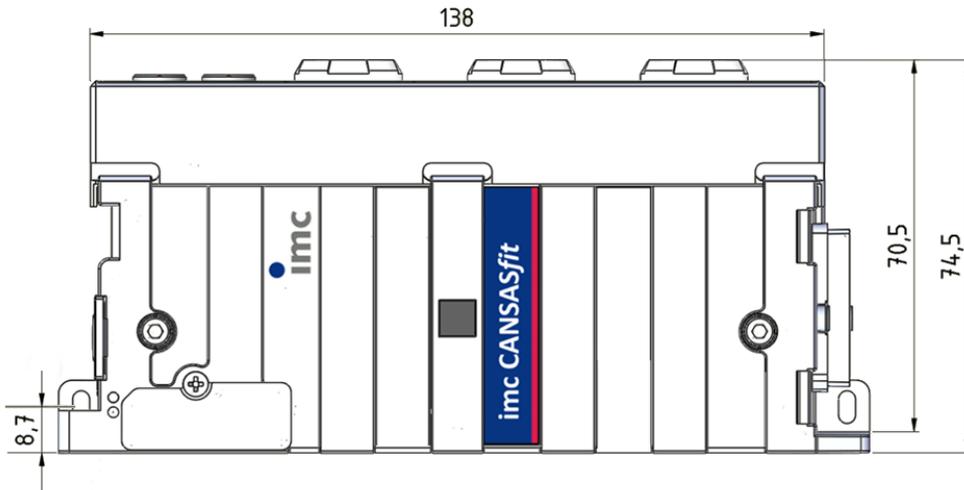
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The CANFT/HISO module series differs from the other imc CANSAS*fit* (CANFT) modules by its size (slightly raised and double width, -XW) and the degree of protection, please read the corresponding data sheet.

This HISO module (with the connections facing upwards) is the preferred position for use.

The two protective covers must be mounted on the module connection ports when the modules are not coupled together.
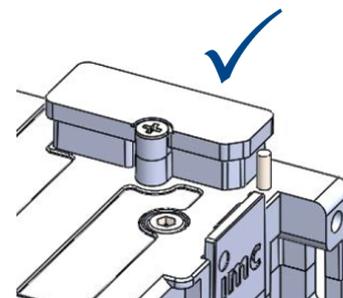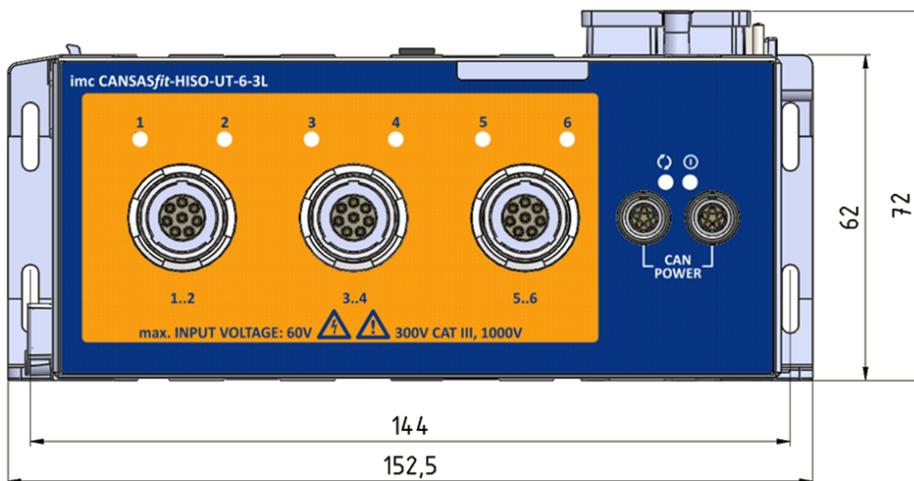
protective cover correctly mounted on the module connection port

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Mounting to DIN-Rail

Function: Mounting on DIN-Rail (top hat rail)

Properties:

The DIN rail clamp is attached to the top hat rail plate ex factory with two countersunk screws. The top hat rail plate with the mounted top hat rail clamp is attached to the rear of the imc CANSAS*fit* module with two cylinder screws.

The top hat rail plate has a thickness of approx. 6 mm.

Included accessories CANFT/BRACKET-DIN:

1x DIN rail clamp with 2x countersunk screws M3x6 attached to the top hat rail plate (ex factory)
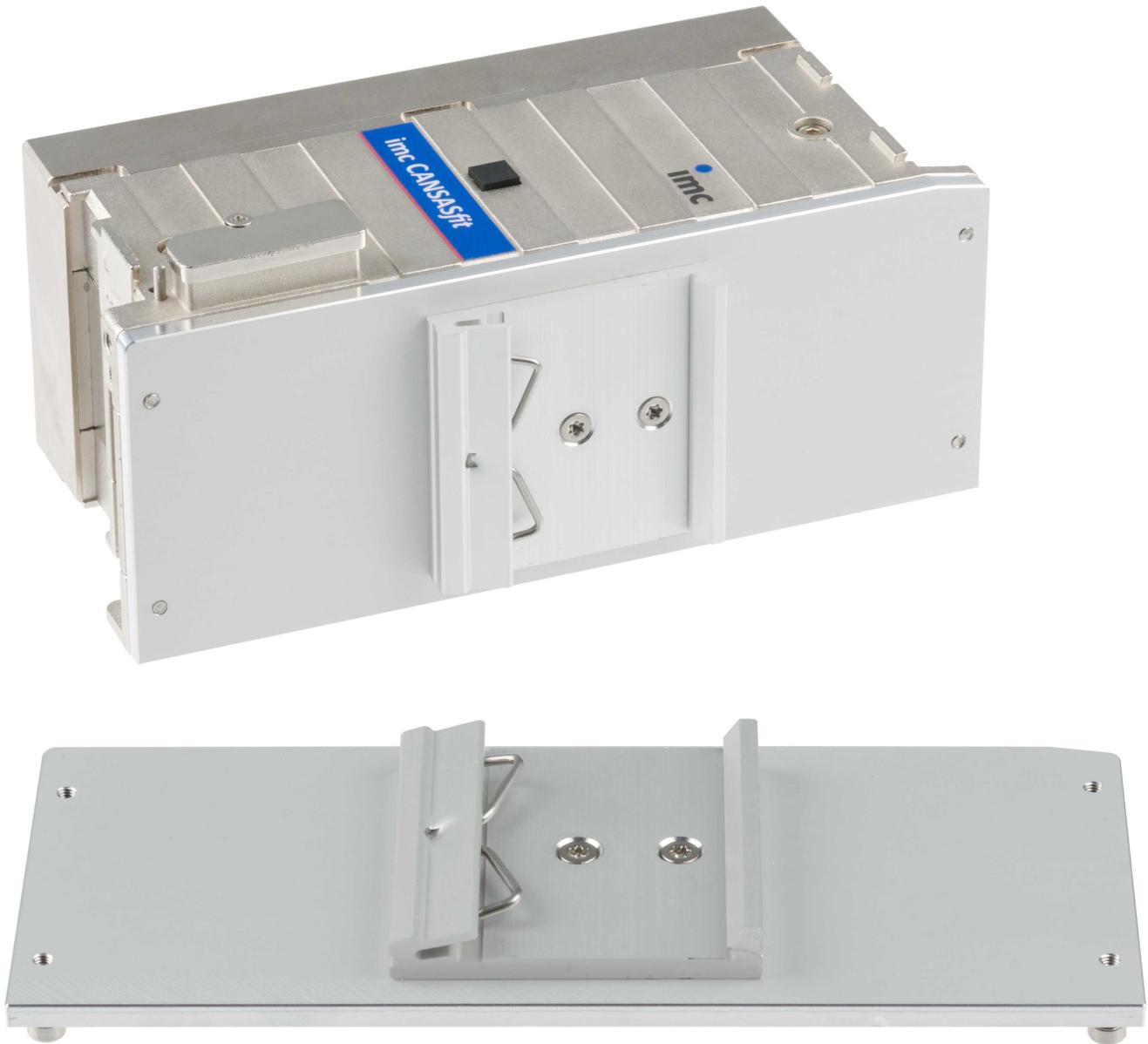
2x cylinder screw M3x8

Order Code: article number:

CANFT/BRACKET-DIN   12100029   DIN rail set

CANFT/BRACKET-DIN-XW

> The DIN rail clamp is attached to the top hat rail plate ex factory with two countersunk screws exactly like CANFT/BRACKET-DIN. The top hat rail plate with the mounted top hat rail clamp is also attached to the rear of the imc CANSAS*fit* module with two cylinder screws.
>
> The top hat rail plate has a thickness of approx. 6 mm.

Included accessories CANFT/BRACKET-DIN-XW:

> 1x DIN rail clamp with 2x countersunk screws M3x6 attached to the top hat rail plate (ex factory)
> 4x cylinder screw M3x8

Order Code:	article number:	
CANFT/BRACKET-DIN-XW	12100039	DIN rail set extra wide, for HISO

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Mounting with Magnet system

Function:	Mounting of an imc CANSAS*fit* module (CANFT) with magnets
Properties:	rectangular magnet in a rubber cover and with an internal thread

Magnets are fixed to a mounting plate with countersunk screws. This magnetic mounting kit (CANFT/BRACKET-MAG respectively CANFT/BRACKET-MAG-XW) is attached to the backside of the imc CANSAS*fit* module with cylinder screws.

front

backside

Danger from magnets:

- Danger from magnetic fields
- Cardiac pacemaker, magnetic data carriers (credit cards, memory cards, etc.)
- Electronic devices (mobile phones, computers, monitors etc.)

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Danger from magnets:

- Risk of injury from squeezing
- Risk of injury from splinters
- Danger of fire

Please pass this information on to all employees who will have contact with the magnets. Observe the strong holding force on the smallest area when mounting. Always use the spacers when storing the magnets in the metal case provided. When mounting a block consisting of several imc CANSAS*fit* modules, it can be useful to use more than one magnetic mounting set. When selecting the number of magnets, consider the increased holding force. If you have any further questions, please do not hesitate to contact us. imc Test & Measurement GmbH does not accept any liability for improper handling of the magnets.

Application instructions:

- Do not place any iron parts (tools, nails, etc.) near the magnets.
- The magnet mounting set must not be modified.
- Magnets can easily break or splinter. Uncontrolled impact of magnets and mechanical impact or pressure loads must be avoided.
- Persons with pacemakers must not expose themselves to magnetic fields.
- Magnetically sensitive devices and magnetic data carriers must be kept away from magnetic fields.
- Keep the magnets away from open heat and flame!

Magnetic mounting kit with two internal threads		
Parameter	Value (typ.)	Remarks
Adhesion force per magnet	137 N	carrying up to 14 kg, note the following information on the adhesion force
Remanence Br	1.17 - 1.21 T	each magnet
Maximum temperature	60 °C	
W x H x D	31 x 43 x 6.9 mm	dimension of one magnet
Thickness of the mounting plate	ca. 6 mm	

Note on the adhesion force:

The adhesion force determined by the manufacturer of the magnet is determined at room temperature on a polished steel plate S235JR (ST37) with a thickness of 10 mm and vertical withdrawal of the magnet. A deviation of up to -10% from the stated value is possible in exceptional cases. In general, the value is exceeded. Please note that with thinner, lacquered and not absolutely even surfaces, the adhesive force corresponds to only a fraction of the stated value.

Included accessories CANFT/BRACKET-MAG:

2x magnet 43 x 31 mm, each equipped with 2 counter sunk screws M4x6 ex factory mounted together
2x cylinder screws M3x8
2x spacers M3x8 for safe storage
1x ferromagnetic metal case for safe storage (magnetic short circuit)

Order Code: article number
  CANFT/BRACKET-MAG   12100030   CANFT magnetic mounting kit

Included accessories CANFT/BRACKET-MAG-XW:

   3x magnet 43 x 31 mm, each equipped with 2 counter sunk screws M4x6 ex factory mounted together
   4x cylinder screws M3x8
   4x spacers M3x8 for safe storage
   1x ferromagnetic metal case for safe storage (magnetic short circuit)

Order Code: article number
   CANFT/BRACKET-MAG-XW   12100040   CANFT HISO modules - magnetic mounting kit

imc CANSAS, imc C-SERIES (CS) and imc BUSDAQ
Mounting Bracket 90° (xx/BRACKET-90)
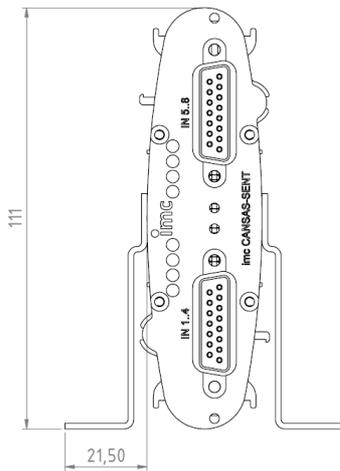
Function: Mounting on a flat surface
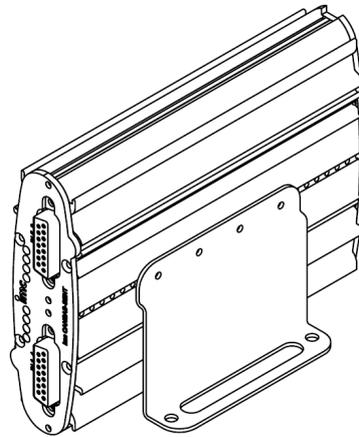
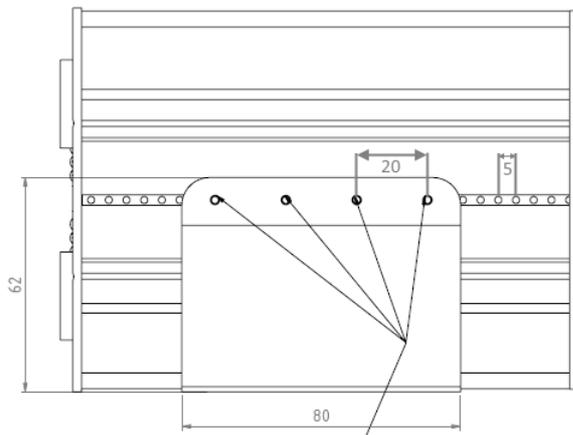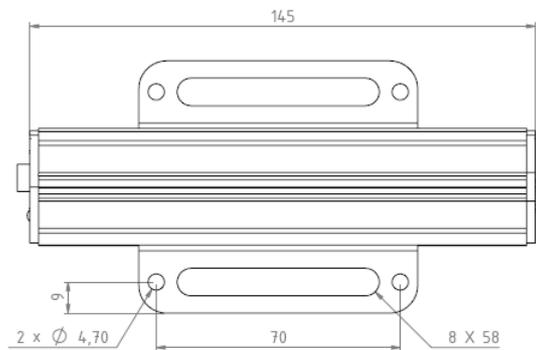Angle: 90° angular

Attachment: 4 x M2.5

Properties:

Requires the module to be equipped with a threaded-hole rail in the enclosure.

This applies to imc CANSAS modules delivered since approx. 2000; to imc BUSDAQ and imc C-SERIES (CS) devices as of 2012.

rear side: imc BUSDAQ-2

mounting to the module
2x 4x flat-head screw M2.5x4

Included accessories:

1x mounting bracket 90°
4x flat-head screw, M2.5x4

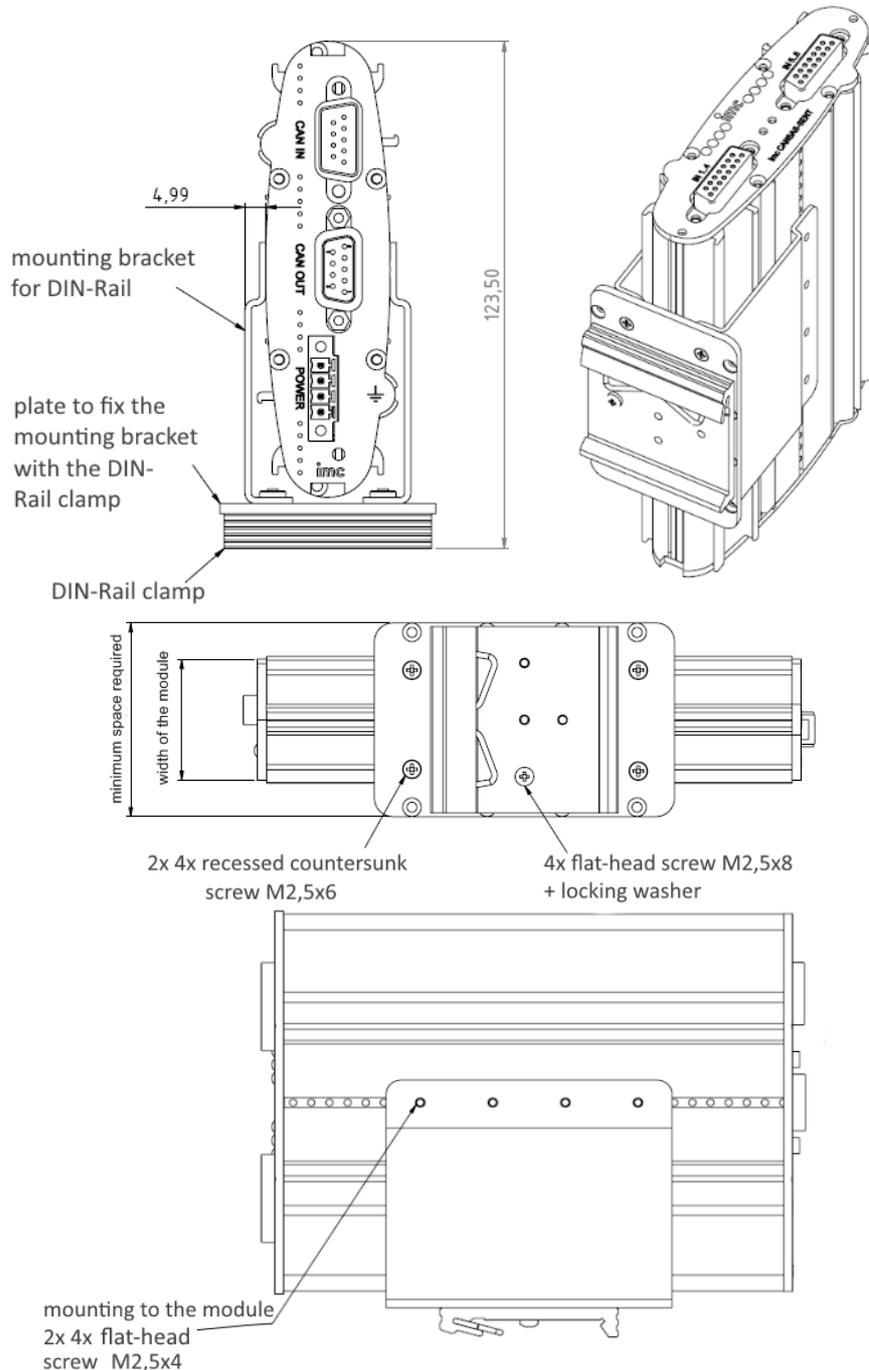| Order Code:	article number:	
CAN/BRACKET-90	10500319	with imc CANSAS module
C/CS-BRACKET-90	14000064	with devices of the imc C-SERIES
BUSDAQ/BRACKET-90	10400034	with imc BUSDAQ devices

Mounting to DIN-Rail

Function: Mounting on DIN-Rail (top hat rail)

Angle: 90° angular

Properties: Requires the module to be equipped with a threaded-hole rail in the enclosure.
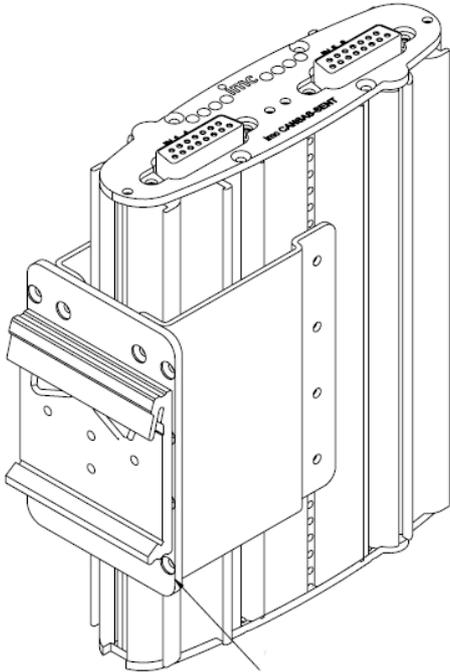
Included accessories (attachment):

   2x mounting brackets for DIN-Rail with 2x 4x flat-head screw M2,5x4
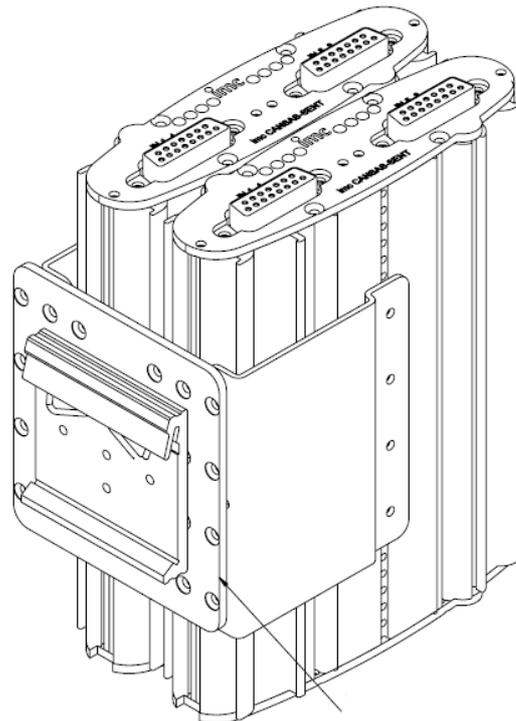
   1x DIN-Rail clamp and 1x plate S or M

   2x 4x recessed countersunk screw M2,5x6 to install the mounting bracket 90° to the plate
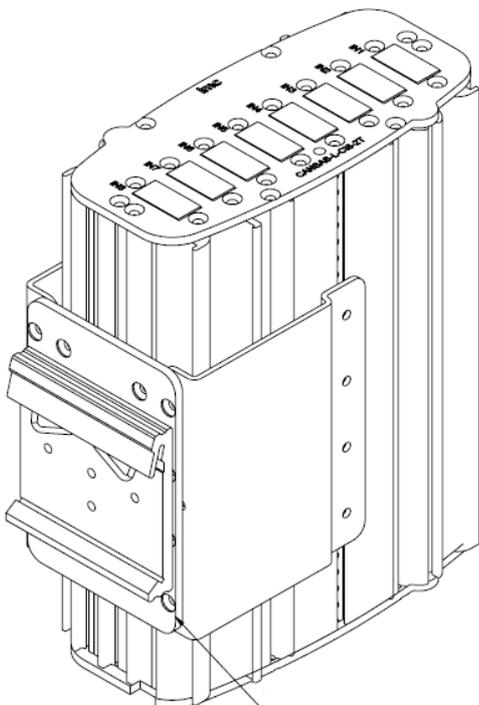
   4x flat-head screw M2,5x8 + locking washer to mount the plate on the DIN-Rail clamp

Size S, e.g. for a CAN/L-DI16 module with a module width of 35 mm

Size M, e.g. for **two** CAN/L-DI16 modules with a module width of each 35 mm

Size S, for all imc CAN modules up to a max. width of 55 mm, e.g. CAN/L-CI8-2T
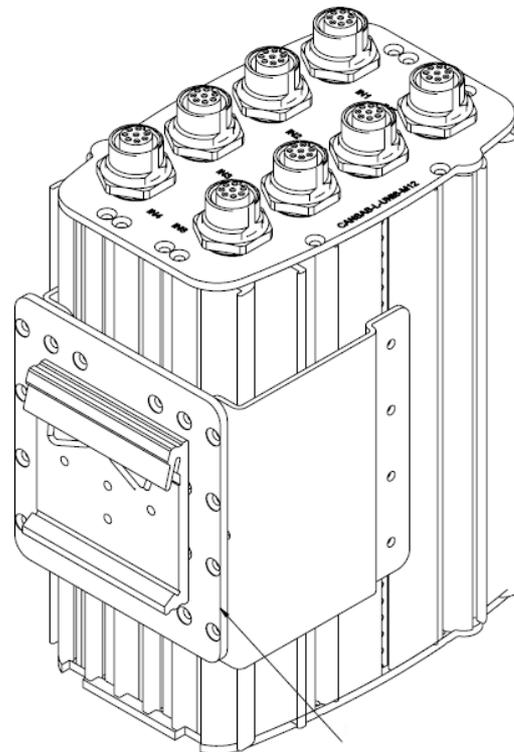
Size M, for all CAN modules up to a max. width of 75 mm, e.g. CAN/L-UNI8-AMPH

Order Code: **CAN/BRACKET-DIN-S** with imc CANSAS Modules,   article number: 10500324
CAN/BRACKET-DIN-M with imc CANSAS Modules, article number: 10500325
BUSDAQ/BRACKET-DIN-S with imc BUSDAQ devices,   article number: 10400035

Mounting on DIN-Rail (top hat rail)

Prerequisite: Requires the module to be equipped with a threaded-hole rail in the enclosure.

Mounting a DIN-Rail
clamp in cross
direction

see drawing with one
imc CANSAS-L module
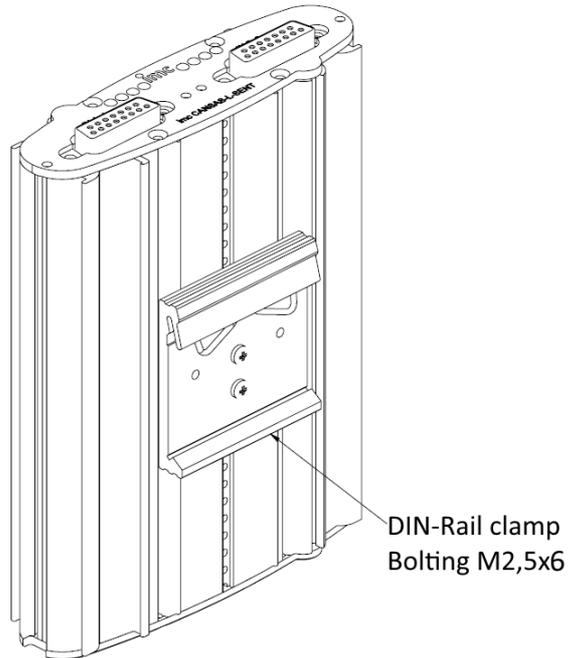
DIN-Rail clamp
Bolting M2,5x6

Mounting a DIN-Rail
clamp in lengthwise
direction

see drawing with one
imc CANSAS-L module

Bolting M2,5x6
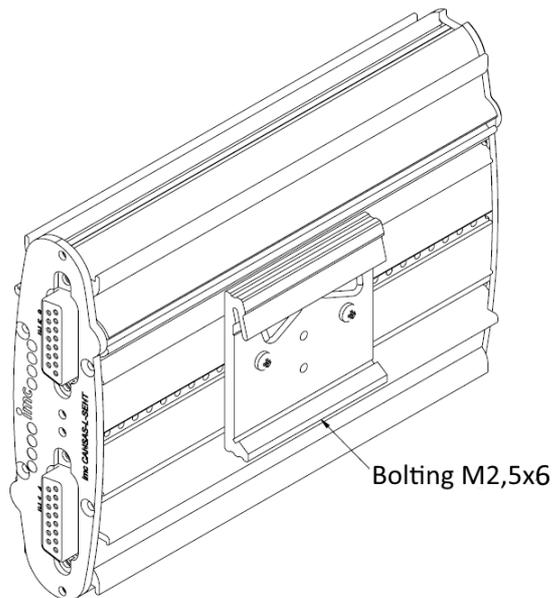
ⓘ Note

Bigger devices (weight more than 2 kg), such as devices of the CS-SERIES or BUSDAQ-X should be installed with two sets of this DIN-Rail clamp on the DIN-Rail.

Included accessories:

1x DIN-Rail clamp

2x flat-head screw M2,5x6

Order code: **CAN/TH-RAIL** for imc CANSAS modules,   article number: 10500078

2x CAN/TH-RAIL for devices of the CS-SERIES or BUSDAQ-X

CAN-BRACKET-IHR

Mounting CAN/IHR (10500398) oder CAN/IHR-48V (10500443) on DIN-Rail (top hat rail)

The CAN/BRACKET-IHR set
consists of:

(1):   1x mounting plate for the DIN-Rail clamp

(2):   4x locking washer Schnorr S2,5

(3):   4x flat-head screw M2,5x6, A2

(4):   1x DIN-Rail clamp

(5):   4x cylinder screw M4x6, A2

(6):   4x locking washer S4

see drawing with one
imc CAN/IHR module and
set of accessories for:
CAN/BRACKET-IHR

Mounting a DIN-Rail clamp in
lengthwise direction
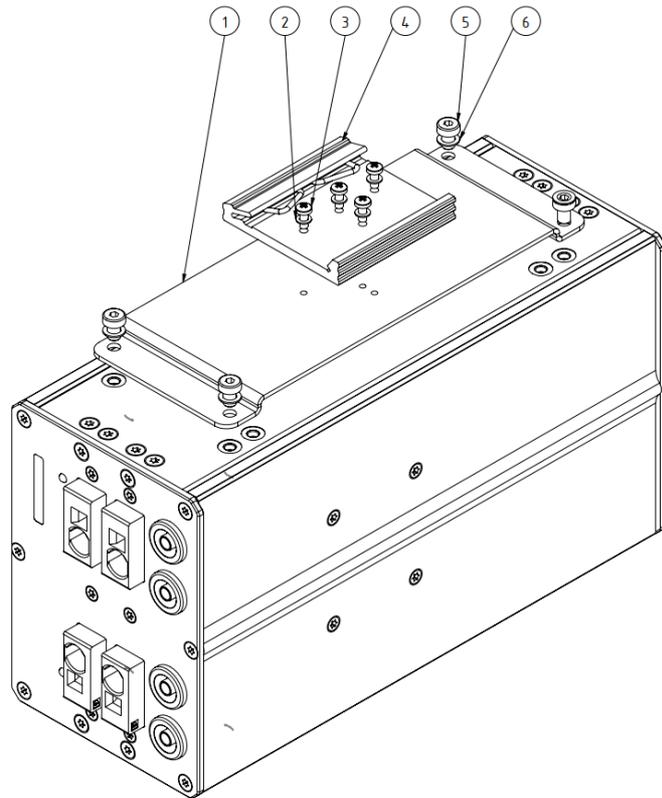
see drawing with one
imc CAN/IHR module and
the mounting set

Mounting a DIN-Rail clamp in **cross**
direction
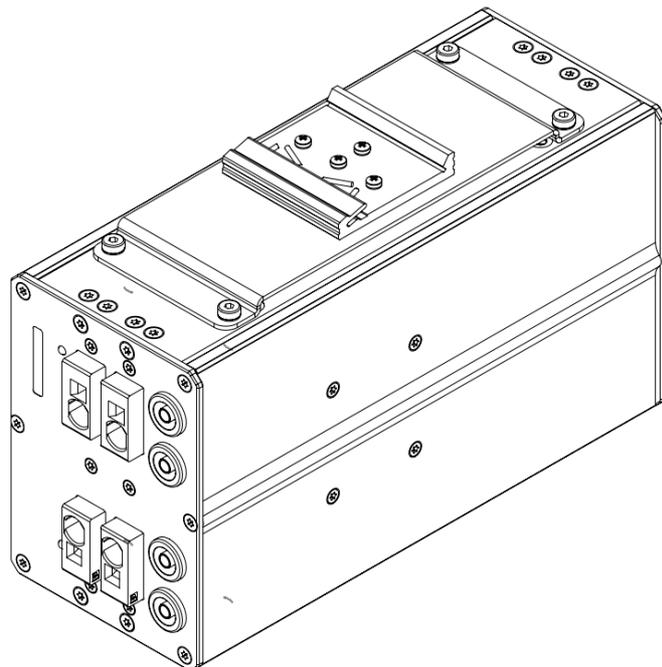
Included accessories:
   1x mounting set see above

Order code: **CAN/BRACKET-IHR**,   article number: 10500456

19" RACK (CS/RACK)

Function: Mounting of imc devices into a 19" RACK without electrical supply

Properties: This 19" RACK can be equipped with four devices. The housing of CS devices and BUSDAQ devices can be inserted.
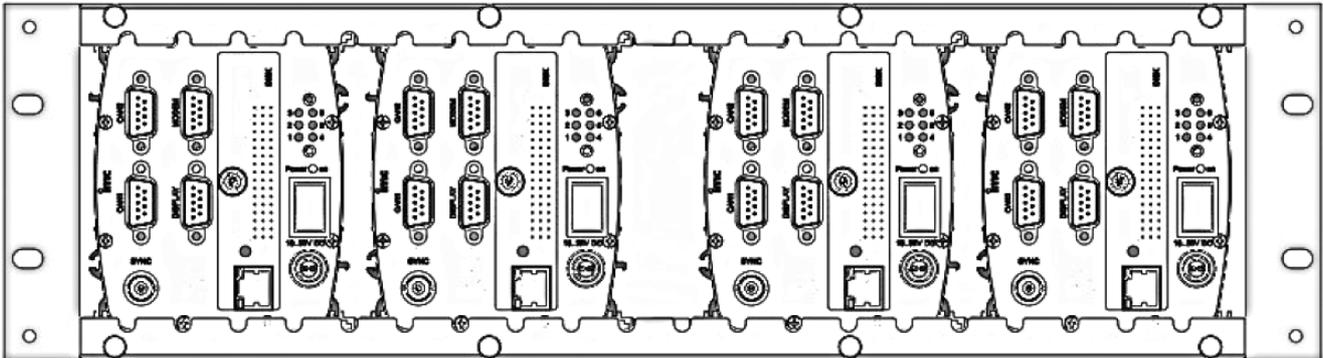
front view: 19" RACK equipped with four devices

Assembly:

Please insert your devices on the guiding rails. If you have inserted your devices successfully, please install the mounting elements at the top and at the bottom of your rack. The inner surface of those mounting elements are labeled with "TOP and BOTTOM". Please tighten the four screws of the elements hand-tight.
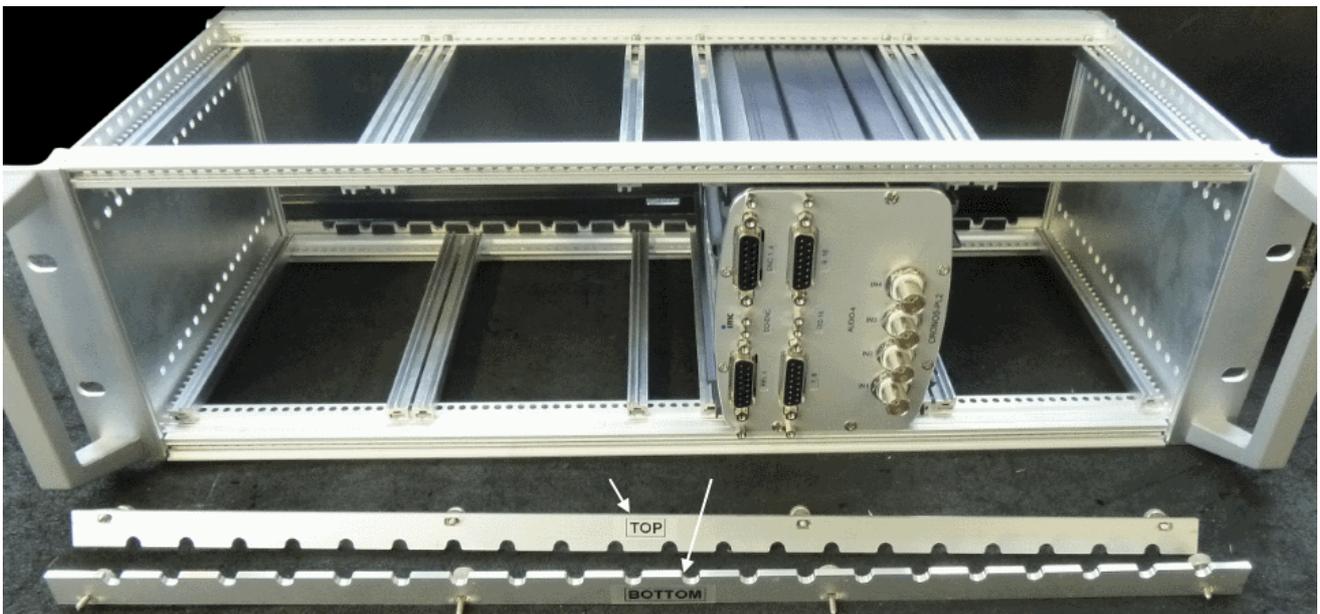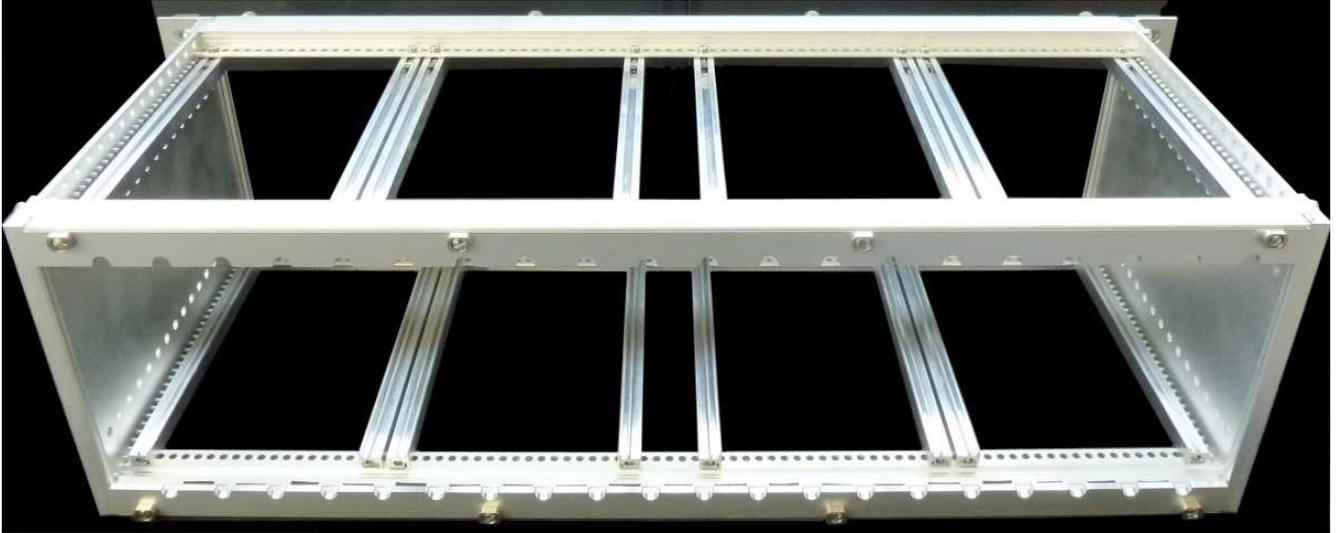
> ⓘ **Note**
>
> The mounting elements for the rear panel of this rack can remain at the rear side of the RACK.

Included accessories:
- 1x CS/RACK
- 2x mounting element top
- 2x mounting element bottom

Order Code: **CS/RACK**,   article number: 14000091

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imc CRONOScompact, imc SPARTAN

Mounting Bracket 180° (CRC(SPAR)/BRACKET-CON)

Function: Mounting of devices on top of one another

Angle: 180° flat

Attachment: 4 x M4

Properties:

For devices delivered before 2010, the (old) screws currently on the device must be replaced with the (new) screws included with the product contents.

Assembly or replacement of the threaded bolts should be carried out one after the other.
Tightening torque: 1.2 Nm

The Mounting Bracket 180° can be used to connect imc CRONOScompact devices and/or imc SPARTAN devices.

Frame width of the associated models:

imc measurement device	width (in mm)
CRC-08	291
CRC-11	353
CRC-13	393
CRC-17	474
SPARTAN-2	251
SPARTAN-4	332
SPARTAN-6	413
SPARTAN-8	495

Included accessories:
    1x mounting bracket 180°
    4x cylinder M4x6 screws
    4x mounting bumpers
    8x Schnorr lock washers size S4, stainless

Order Code:
    CRC/BRACKET-CON,   article number: 11700153
    SPAR/BRACKET-CON,   article number: 11300119

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Mounting Bracket 90° (CRC(SPAR)/BRACKET-90)

Function: Mounting on a flat surface
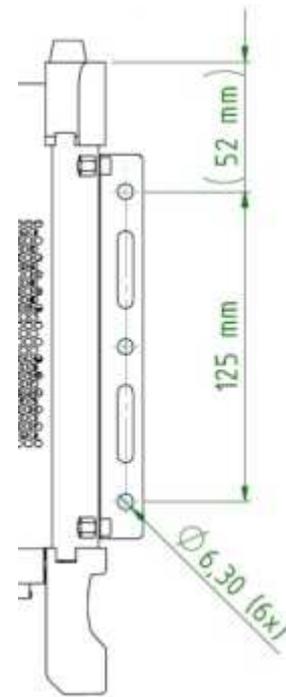
Angle: 90° angular

Attachment: 2 x M4

Properties:

For devices delivered before 2010, the (old) screws currently on the device must be replaced with the (new) screws included with the product contents.
Tightening torque: 1.2 Nm
This Mounting Bracket 90° can be used both for imc SPARTAN and for imc CRONOS*compact* devices.

Frame width and assembly dimension (A) of associated device models:

imc measurement device	width (in mm)	A (in mm)
CRC-08	291	307
CRC-11	353	368
CRC-13	393	409
CRC-17	474	490
SPARTAN-2	251	267
SPARTAN-4	332	348
SPARTAN-6	413	429
SPARTAN-8	495	510
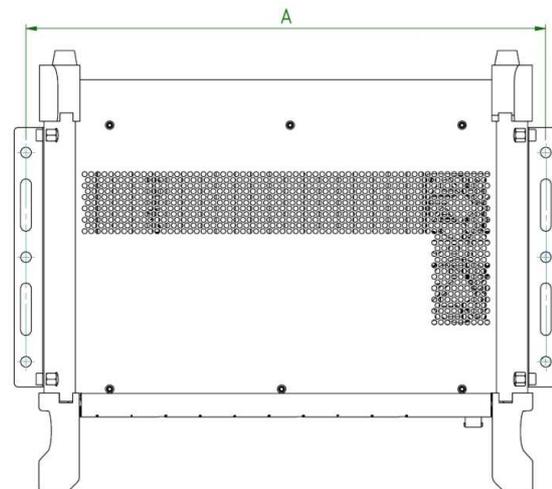
Included accessories:

1x mounting bracket 90°

2x cylinder screws M4x6

4x Schnorr lock washers size S4 stainless

Order Code: **CRC/BRACKET-90**,   article number: 11700152
                SPAR/BRACKET-90,   article number: 11300118

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Back Panel Mounting Bracket (CRC(SPAR)/BRACKET-BACK)

Function: Mounting on a flat surface
             back panel mounting bracket

Angle: flat

Attachment: 2 x M4

Properties:

For devices delivered before 2012, the device must be retrofitted with two new back panel bumper bars (to which the rubber feet are attached), in order to admit the bracket's screws. This Back Panel Mounting Bracket can be used both for imc SPARTAN and for imc CRONOS*compact* devices.

The rubber feet additionally serve to provide cushioning.

imc SPARTAN-4

Before installing the measurement device to a flat surface the statements on the type label may be copied.

Included accessories:

1x back panel mounting bracket
2x cylinder screws
2x lock washers

Order Code: **CRC/BRACKET-BACK**,   article number: 11700154
               SPAR/BRACKET-BACK,   article number: 11300120

Dimensions:
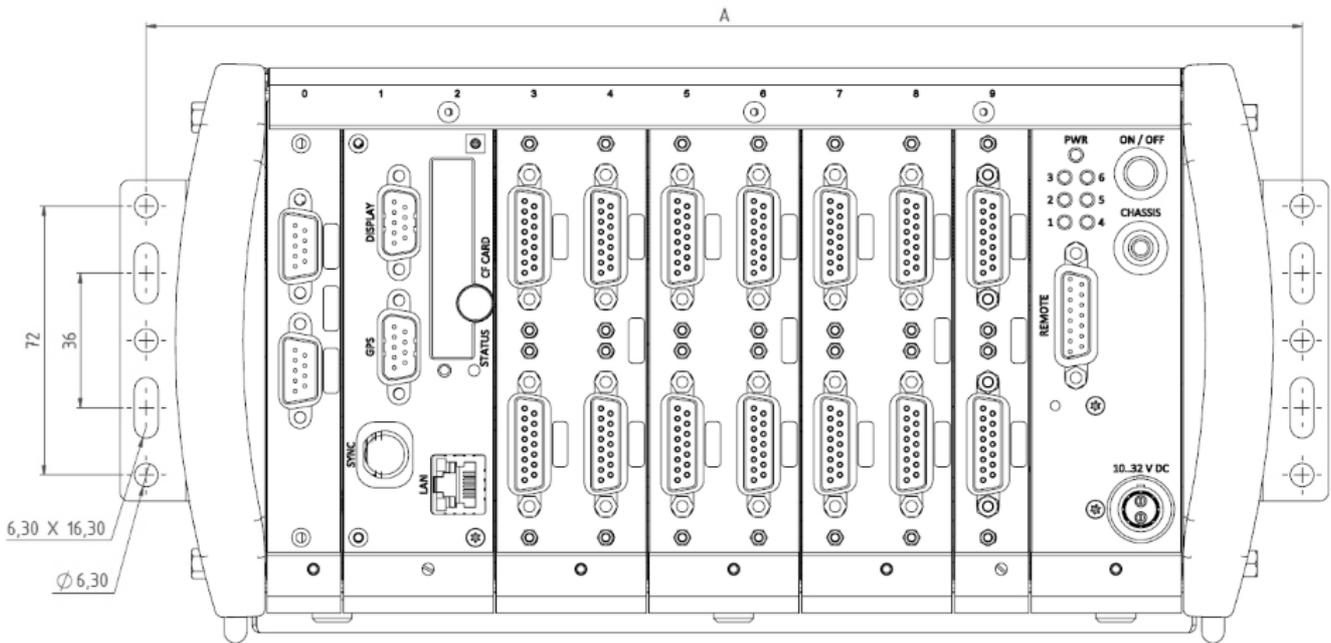
Remarks:

Please consider the table in the chapter: "Mounting Bracket 90° (CRC(SPAR)/BRACKET-90) 59 " for the dimension: A.

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imc C-SERIES (CL)

Mounting Bracket 180° (C/CL-BRACKET-180)

Function: Mounting on a flat surface

Angle: 180° flat

Attachment: 4 x M4 screws

Properties:

This Mounting Bracket can be used for imc C-SERIES (CL) measurement devices. The picture below illustrates the design:

Front: CL-4108

As displayed in the following picture, the device can additionally be fastened by means of two straps. The Mounting Bracket C/CL-BRACKET-180 (14000065) include two straps.
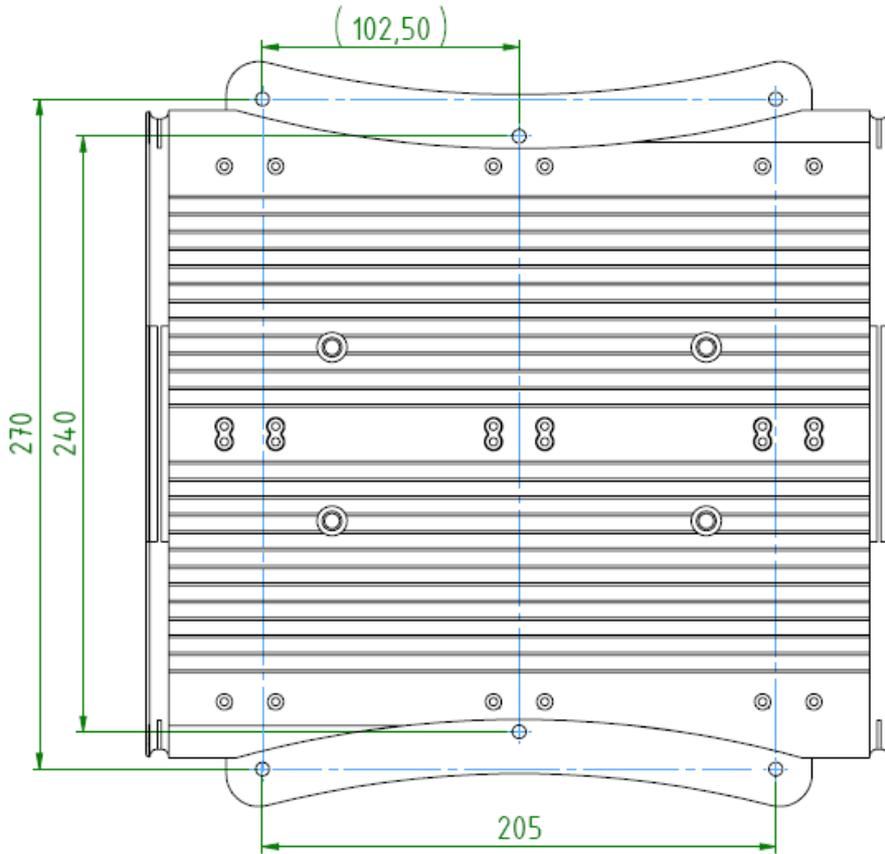

Included accessories:

1x mounting bracket 180°

4x recessed countersunk screws M4x6
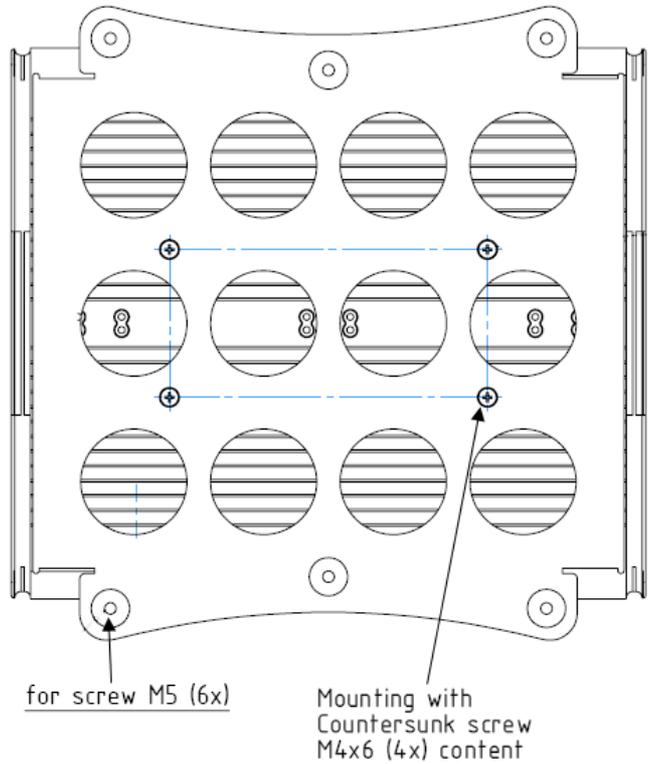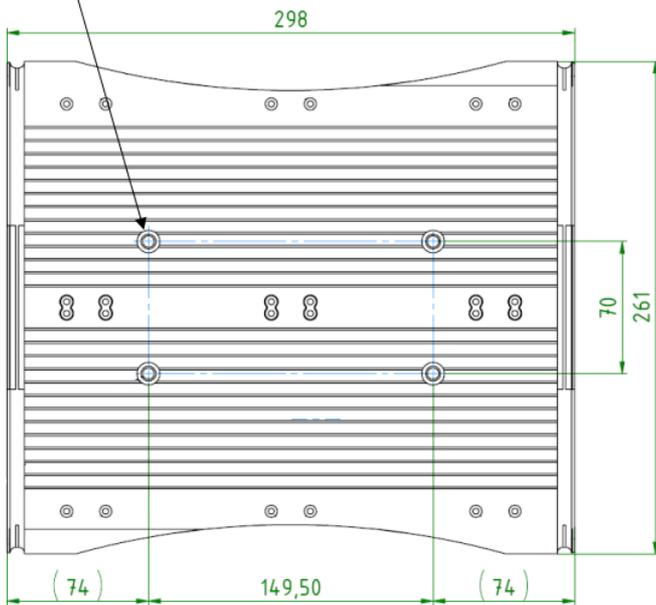
2x straps

Order Code: **C/CL-BRACKET-180**,   article number: 14000065

Mechanical drawings with dimensions:

CAUTION:

CAUTION!
M4 thread depth
3,5 mm usable

for screw M5 (6x)

Mounting with
Countersunk screw
M4x6 (4x) content

imc CRONOS-SL

Mounting Bracket 90° (CRSL/BRACKET-90)

Function: Mounting on a flat surface

Angle: 90° angular

Attachment: 4 x M4

Properties:

This Mounting Bracket is especially suitable for mounting an imc CRONOS-SL device on a flat surface. It can also be used to attach two imc CRONOS-SL devices in a stacked configuration.

Requires the device to be equipped with a threaded bolt. Available for delivery as of 01/2012.

Included accessories:
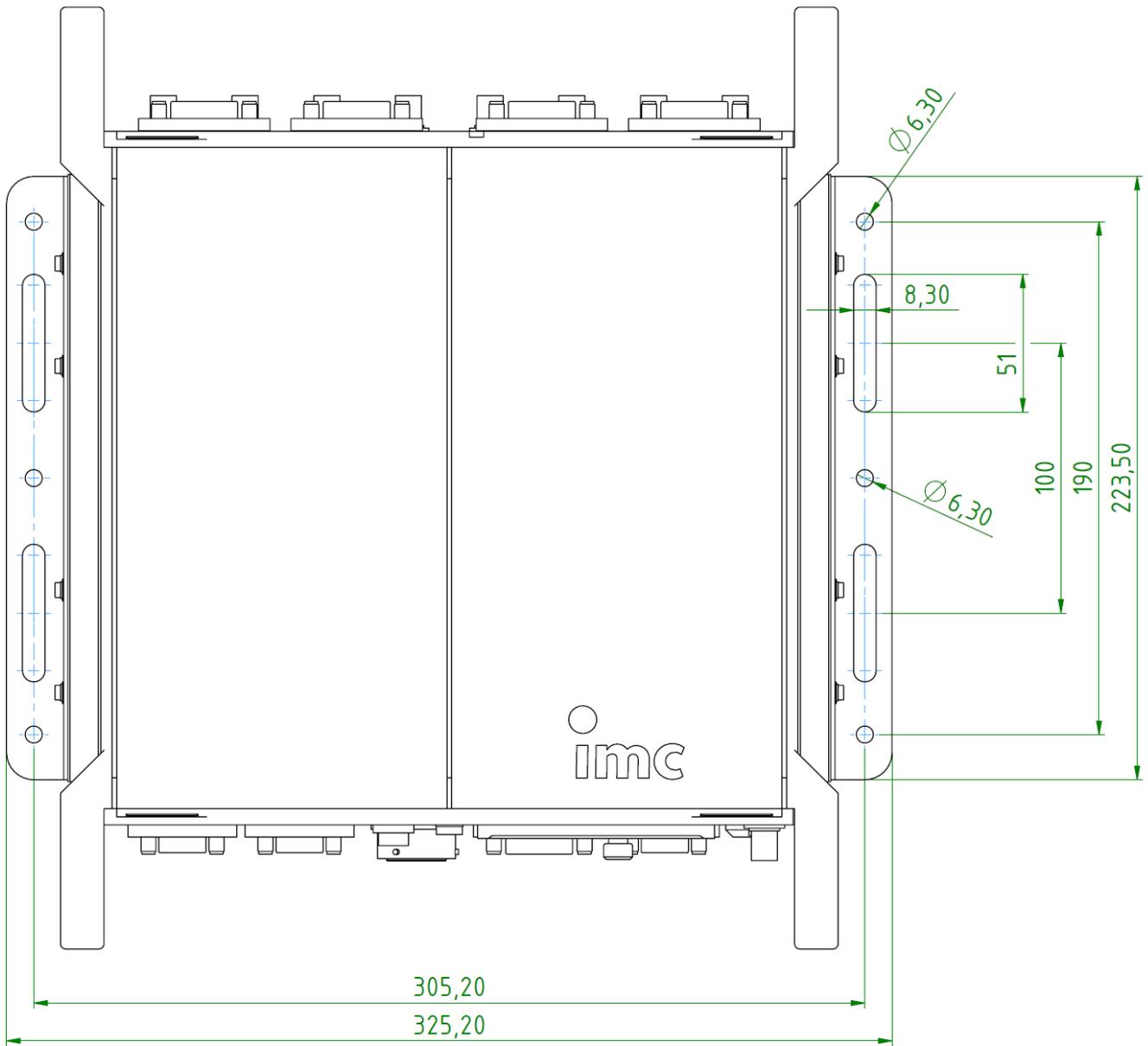   2x mounting bracket 90°
    8x cylinder bolts
    8x Schnorr safety bolts, size S3
    8x toothed washers, 3.2 Form A DIN 6797
    8x washers 3.2 Form A DIN 125

Order Code: **CRSL/BRACKET-90**,   article number: 11800080

Dimensions:

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imc CANSAS-SL

Interconnect Bracket

Function:	coupling of modules
Angle:	180° flat
Attachment:	2 x M4
Properties:	

This Interconnect Bracket fasten two imc CANSAS-SL modules together in a stacked configuration. The brackets are installed on the side plates with a total of four M4 screws. The Interconnect Bracket CAN/SL-BRACKET-CON can be used with all imc CANSAS-SL modules.

Included accessories:
  1x interconnect bracket
  2x recessed countersunk screws, M4x6

Order Code: **CAN/SL-BRACKET-CON**,   article number: 11500048

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Mounting Bracket 90° (CAN/SL-BRACKET-90)

Function: Mounting on a flat surface

Angle: 90° angular

Attachment: 2 x M4

Properties:

This Mounting Bracket 90° is suitable for attaching either individual or multiple stacked imc CANSAS-SL modules to a flat surface. The Mounting Bracket is to be fixed to the device using two M4 screws.

Included accessories:
  1x mounting bracket 90°
  2x recessed countersunk screws, M4x6

Order Code: **CAN/SL-BRACKET-90**,   article number: 11500047

Mounting Bracket 180° (CAN/SL-BRACKET-180)

Function: Mounting on a flat surface (wall)

Angle: 180° flat

Attachment: 2 x M4

Properties:

Wall mounting of the imc CANSAS-SL Modules is possible by means of these Mounting Brackets 180°.

Included accessories:
  1x mounting bracket 180°
  2x recessed countersunk screws, M4x6

Order Code: **CAN/SL-BRACKET-180**,   article number: 11500049

Contact imc

Address

imc Test & Measurement GmbH
Voltastr. 5
13355 Berlin

Phone: (Germany):   +49 30 467090-0
E-Mail: info@imc-tm.de
Internet: https://www.imc-tm.com

Tech support

If you have problems or questions, please contact our tech support:

Phone: (Germany):   +49 30 467090-26
E-Mail: hotline@imc-tm.de
Internet: https://www.imc-tm.com/service-training/

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The safe handling of measurement devices requires a good knowledge of the system. At our training center, experienced specialists are here to share their knowledge.

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