- Polyamide hand held enclosure for MCR- and automation engineering
- Ergonomic enclosure shape
- Version with or without display opening
- Prepared for acceptance of keypads/silicone switch mats
- Optional EMC version with internal coating and EMC seal

Included in delivery

Double-skinned enclosure with top and base unit, each with fixing domes, fastening and enclosure screws.
Open version incl. display screen and punshed seal.

Technical data

Material:
Polyamide

Ingress protection:
IP 65, EN 60529

Disruptive strength:
> 7 Joule to DIN 50014

Surface resistance:
10^{12} Ohm to DIN 53482

Flammability:
V2 to UL 94

Temperature range:
-40°C to +60°C

Colour:
black-grey, similar to RAL 7021

Beluga 180/220

Programme range

Enclosure type	Order No.	Version	Dimensions W x L x H (mm)	Weight (kg)
Beluga 180 O	*27.02 02 00*	open	106/75 x 187 x 50	0.16
Beluga 180 G	*27.02 02 01*	closed	106/75 x 187 x 50	0.17
Beluga 220 O	*27.02 04 00*	open	116/85 x 220 x 51	0.20
Beluga 220 G	*27.02 04 01*	closed	116/85 x 220 x 51	0.21

Accessories

Hook set without magnet	*27.02 00 80*
Hook set with magnet	*27.02 00 81*
Keypad FT 180b, 15 keys, Matrix printed (B 180)	*82.10 00 03*
Keypad FT 180ge, 12 keys, Matrix with plug-in unit (B 180)	*82.10 00 07*
Keypad FT 180e, 15 keys, Matrix with plug-in unit (B 180)	*82.10 00 04*
Keypad FT 220b, 18 keys, Matrix printed (B 220)	*82.10 00 05*
Keypad FT 220e, 18 keys, Matrix with plug-in unit (B 220)	*82.10 00 06*
Display fixing set (B 180)	*27.01 06 80*
Display fixing set (B 220)	*27.02 04 82*
Cable gland with bending protection M 16 x 1,5	*08.10 01 16*
Cable gland with bending protection M 20 x 1,5	*08.10 01 20*
Hand strap	*27.02 00 83*
Spare screws	*27.02 00 82*
Spare display screen set (B 180)	*27.01 06 88*
Spare display screen set (B 220)	*27.02 04 83*
Battery compartment	*27.02 00 85*
Battery holder for 4 round cells for battery compartment	*27.02 00 86*
Battery holder for 9 V battery for battery compartment	*27.02 00 87*
Wall fixing for hook set	*27.02 00 84*
Scratch resistant display screen	on request
Push-botton and switches see page 55 - 60	on request

Electromechanical components
On request, we offer the enclosures ready equipped with electromechanical components such as emergency stop button, confirm keys, hand wheel, step switch, display.
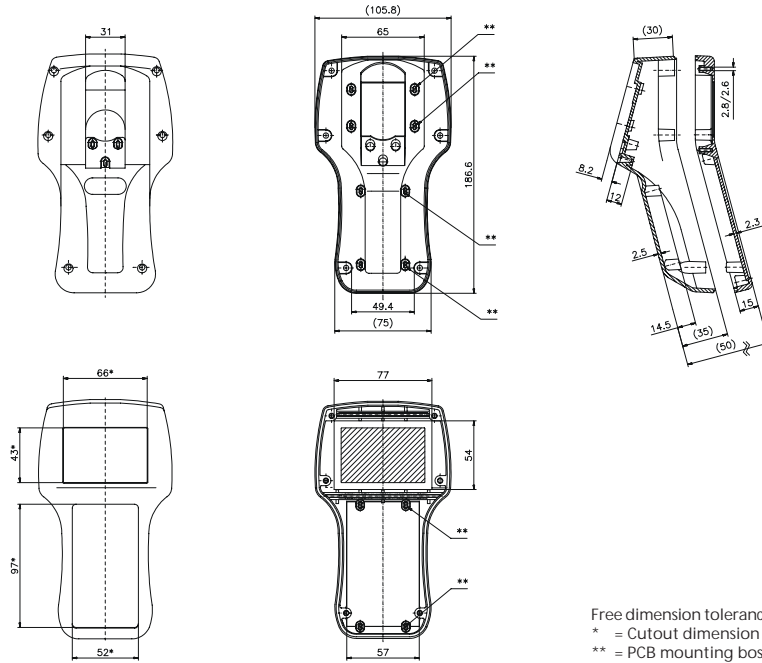
Compontents mounting options

Component options	Type B180 O	Type B180 G	Type B220 O	Type B220 G
Display max. view area 42 x 65 mm	•			
max. mounting dimensions 56,4 x 74 mm or 54 x 80 mm				
Display max. view area 49 x 78 mm			•	
max. mounting dimensions 71,5 x 84 mm or 70,5 x 86 mm				
Emergency stop button	•	•	•	•
Confirm key	•	•	•	•
Hand wheel		•		•
Step switch		•		•
Joy stick	•		•	
Cable outlet up to M 16	•	•	•	•
Cable outlet up to M 20			•	•
1st board (main board)	•	•	•	•
Other boards	•	•	•	•

Dimensions

Type	Version	Order No.
Beluga 180 O	open	27.02 02 00
Beluga 180 G	closed	27.00 02 01

(max. PCB size of displays ca. 74 x 56.4 mm or 80 x 54 mm)
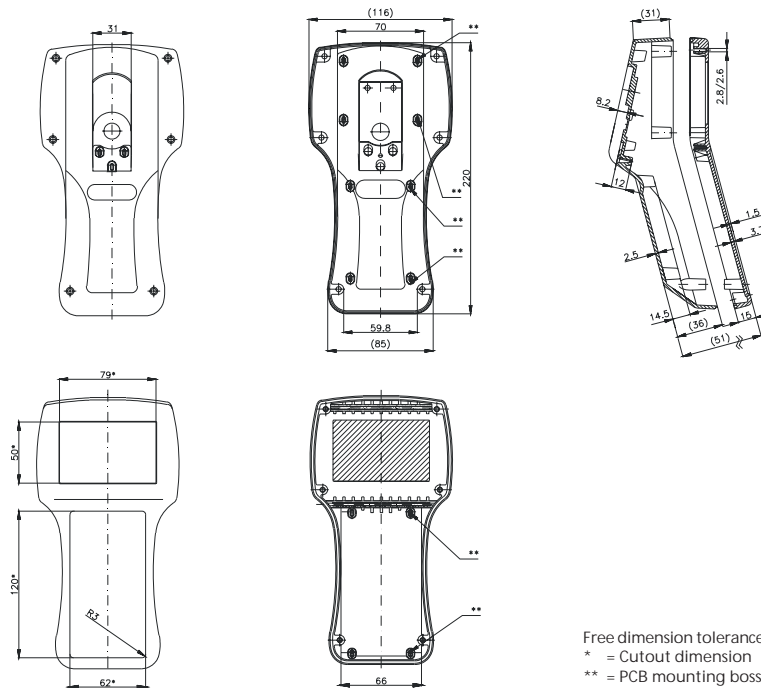
Free dimension tolerance to DIN 16901-130
* = Cutout dimension
** = PCB mounting boss (screw 3 x 8)

Type	Version	Order No.
Beluga 220 O	open	27.02 04 00
Beluga 220 G	closed	27.02 04 01

(max. PCB size of displays ca. 84 x 71.5 mm or 86 x 70.5 mm)

Free dimension tolerance to DIN 16901-130
* = Cutout dimension
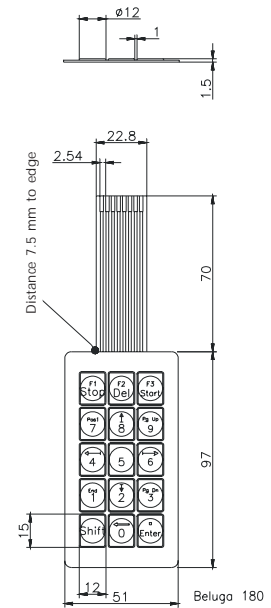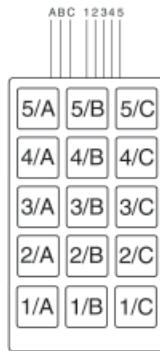** = PCB mounting boss (screw 3 x 8)

Beluga 180/230

Accessories

Membrane keypads for Beluga 180
Standard membrane keypad with 15 keys as printed version or plain. Insertion facility for custom inscription
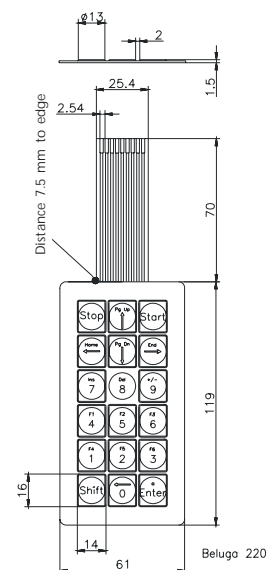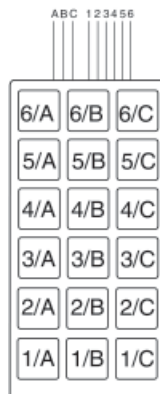
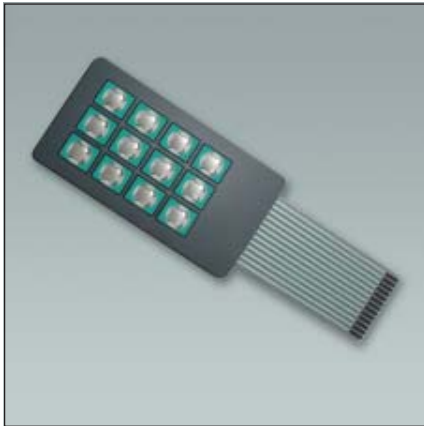| Type	Version	Order No.
FT B180 - 15 b	Matrix printed	**82.10 00 03**
FT B180 - 15 e	Matrix with insertion facility	**82.10 00 04**

Membrane keypads for Beluga 220
Standard membrane keypad with 18 keys as printed version or plain. Insertion facility for custom inscription

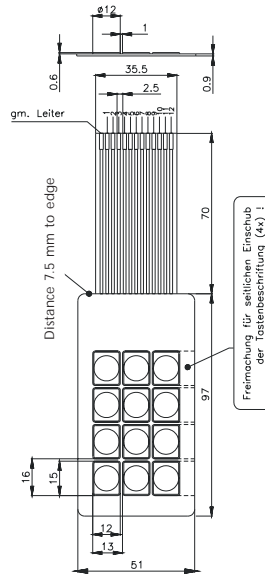| Type	Version	Order No.
FT B220 - 18 b	Matrix printed	**82.10 00 05**
FT B220 - 18 e	Matrix with insertion facility	**82.10 00 06**

Accessories

Membrane keypads for Beluga 180
Standard membrane keypad with 12 keys as plain version. Insertion facility for custom inscription

Type	Version	Order No.
FT B180 - 12 ge	common connection with insert vacility	*82.10 00 07*

Hook set
consisting of mounted hook and fixing screws

Version	Order No.
without magnet	*27.02 00 80*
with magnet	*27.02 00 81*

Display fixing set
for variable display mounting

Version for	Order No.
Beluga 180	*27.01 06 80*
Beluga 220	*27.02 04 82*

Adhesion by version with magnet

plate thickness	force
2 mm	20 N
5 mm	30 N

Beluga 180/220

Applications