

# Lifting Column BL1 Data sheet

# BL1

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The BL1 is a 3-part lifting column designed to be used for example in Hospital beds, Nursing Home beds, Treatment chairs, Couches and Dental chairs.

The lifting column is compact and has a long stroke length. The 3-part guidance enables an overlap between the individual profiles, which ensures a high degree of stability.

The lifting column has an open spindle actuator with a chain drive inside which is practically noiseless.

The BL1 is available with a cable integrated inside the column which enables connection of a hand control or a foot switch from the top or bottom of the column. Hereby the cables are hidden inside the column. It is possible to connect the control unit and motor cable at the top plate but only motor cable or control unit at the bottom plate. The integrated cable makes the column easy to fit into an aesthetic design of applications and easy to clean.

#### Among benefits are:

- Short installation dimension and long stroke length is possible
- High degree of stability
- Low noise level
- Exchangeable cables



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#### Features & Options:

- Load in push: 2000 N
- Colour: Anodised aluminium
- Protection class: IPX6
- Motor: 24 V DC, 12 V DC
- Built-in dimensions:
  - Standard: 350 mm (+/-4) - stroke length 200 mm, 300 mm, 400 mm (+/-3)
  - Medium: 312 mm (+/-4) - stroke length 324 mm (+/-3)
  - Small: 274 mm (+/-4) - stroke length 248 mm (+/-3)
- Positioning options: Dual hall
- Noise level: 50 dB (A)
- Safety nut: Optional
- Built-in electrical limit switch: Yes
- Exchangeable cable: Minifit - minifit for the motor cable and 10 poled modular plug for hand control or foot switch
- Safety factor: >2.5
- Weight: BL1 Standard: 9.8 kg  
BL1 Medium: 8.7 kg  
BL1 Small: 8.0 kg
- Static bending moment: 500 Nm
- Dynamic bending moment: 250 Nm

- Protective grounding cable: Optional, for potential equalization between top- and bottom plate
- Connection of motor cable: Standard top plate or optional bottom plate
- Connection of control cable: Optional as cable through

#### Usage:

- Duty cycle: 10%, 2 minutes continuous use followed by 18 minutes not in use
- Usage temperature: + 5 °C to + 40 °C
- Storage temperature: Max 50 °C
- Compatibility: CB6 OBL, CB6 OBF, CB16 and CB20
- Approvals: IEC60601-1:2005 3<sup>rd</sup> ed.,  
ANSI / AAMI ES60601-1:2005, 3<sup>rd</sup> edition,  
CAN / CSA-22.2 No 60601-1:2008.  
UL-approved 2015.12.07

Technical specifications:

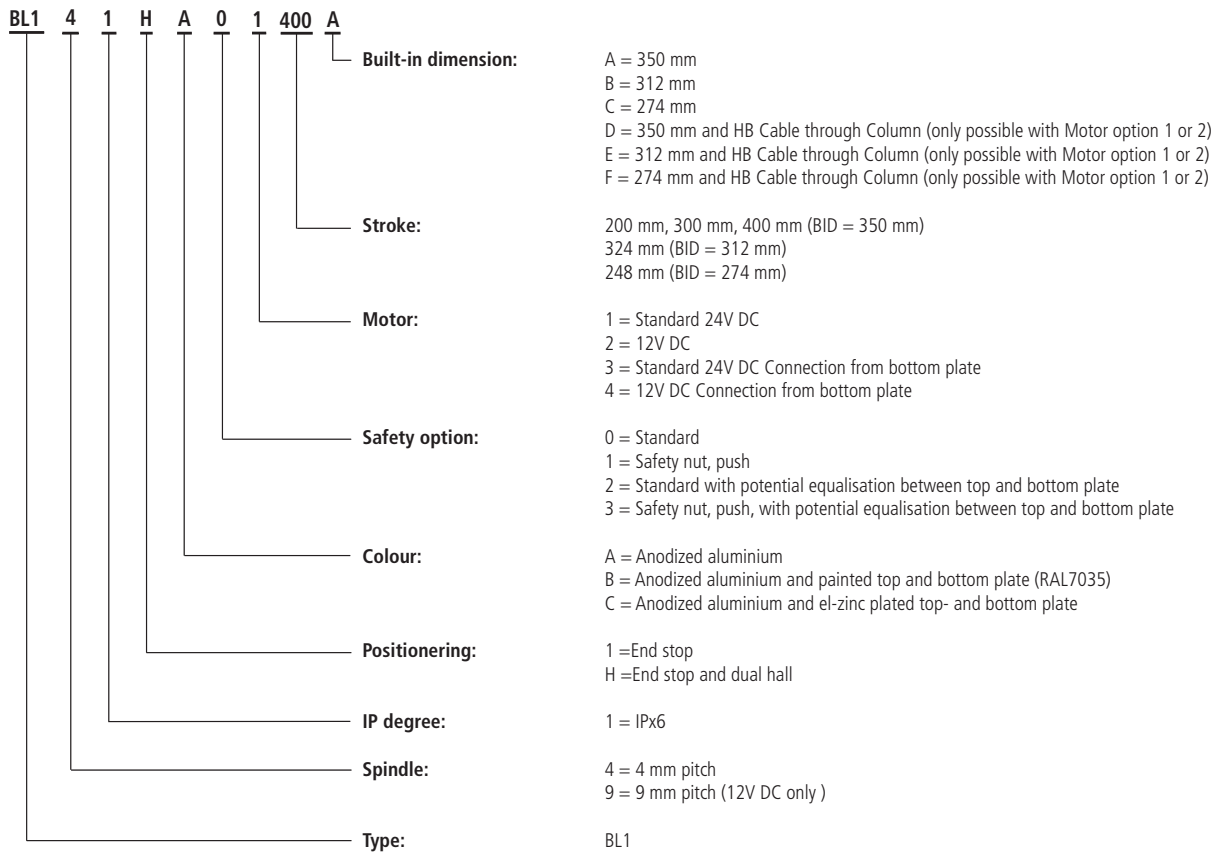
Motor type	Spindle pitch (mm)	Push max. (N)	Pull max. (N)	Self-lock min. (N)	Bending moment max. (static) (Nm)	Bending moment max. (dynamic) (Nm)	Built-in-dimension (mm)	Stroke length (mm)	Max. Static pull (N)		
24V	4	2000	0	2000	200 mm stroke = 1000 248 mm stroke = 500 300 mm stroke = 750 324 mm stroke = 500 400 mm stroke = 500	250	350	400	1000		
12V								300			
								200			
							312	324			
							274	248			
							350	400			
	300										
200											
9	700	0	700						350	400	700
										300	
										200	
									312	324	
					274	248					
					274	248					

Motor type	Spindle pitch (mm)	Typical speed 0 / full load (CB6 / CB16 OBL) (mm/s)		Typical speed 0 / full load (CB6 / CB16 OBF) (mm/s)		Typical speed 0 / full load (CB20) (mm/s)		Stroke (mm)	Typical current at full load 24V (A)
24V	4	18	9	19	10	19	12	248	4.8 - 5
								324	4.0 - 4.4
								400	3.8 - 4.0

Motor type	Spindle pitch (mm)	Typical speed 0 / full load (12V stabilized power supply) (mm/s)		Typical current at full load 12V (A)
12V	4	21	12	9
	9	46	24	7

## BL1

### Ordering example:



Blind plugs for the top plate are included if the motor option 3 or 4 is chosen

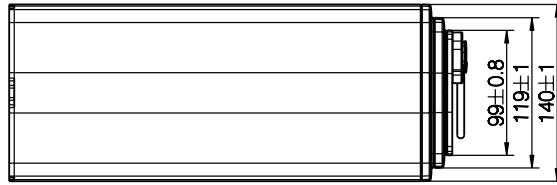
#### Options - top plate connections:

- Motor cable and hand control cable
- Motor cable
- No connections (motor cable in the bottom plate)

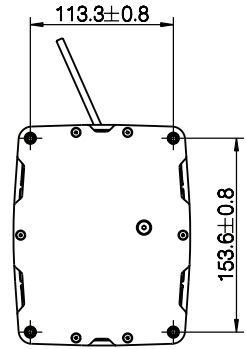
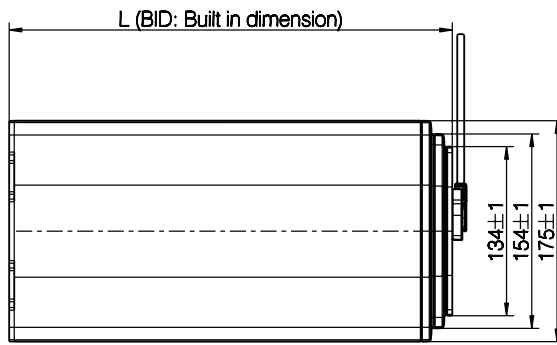
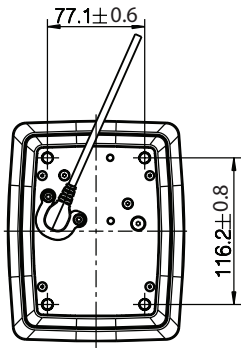
#### Options - bottom plate connections:

- Motor cable
- Hand control cable
- No connections (motor cable in the top plate)

Dimensions:



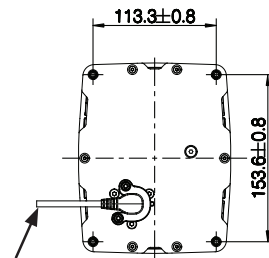
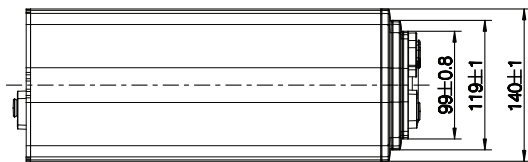
BID	L (mm)
A	350 ± 4
B	312 ± 4
C	274 ± 4



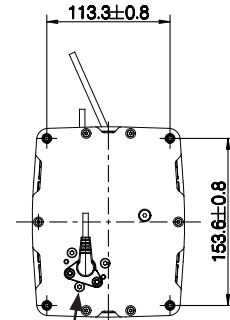
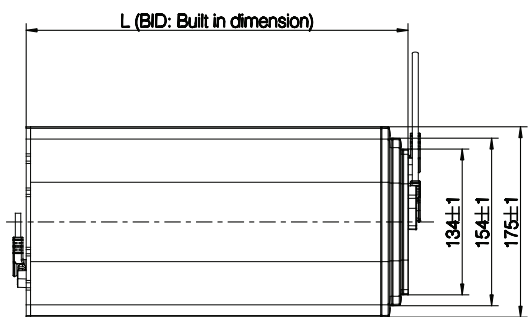
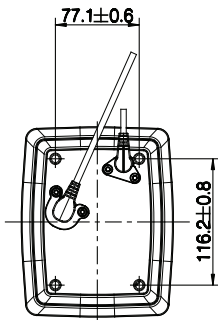
Drawing no.: 0807000

Dimensions - BL1 with cable through:

BID	L (mm)
D	350 ± 4
E	312 ± 4
F	274 ± 4



Motor cable



Hand control cable

Drawing no.: 0807001, 0807002-A

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