

Lifting column



technology⁷

B-series

B13




Max 5.000 N



Description

The DB-13 columns are very stable and robust columns with two screws that enables short retracted lengths. With its stiff aluminum tubes and long-life pads, it offers a stable and reliable guiding system that is maintenance free.



-  Long lifetime
-  Very robust
-  Great offset capacity

Features

Push
Cable out small tube
Build in Hall Sensors
Limit switch

Options

Potentiometer
Cable through
Customizable top/bottom plates

Technical data

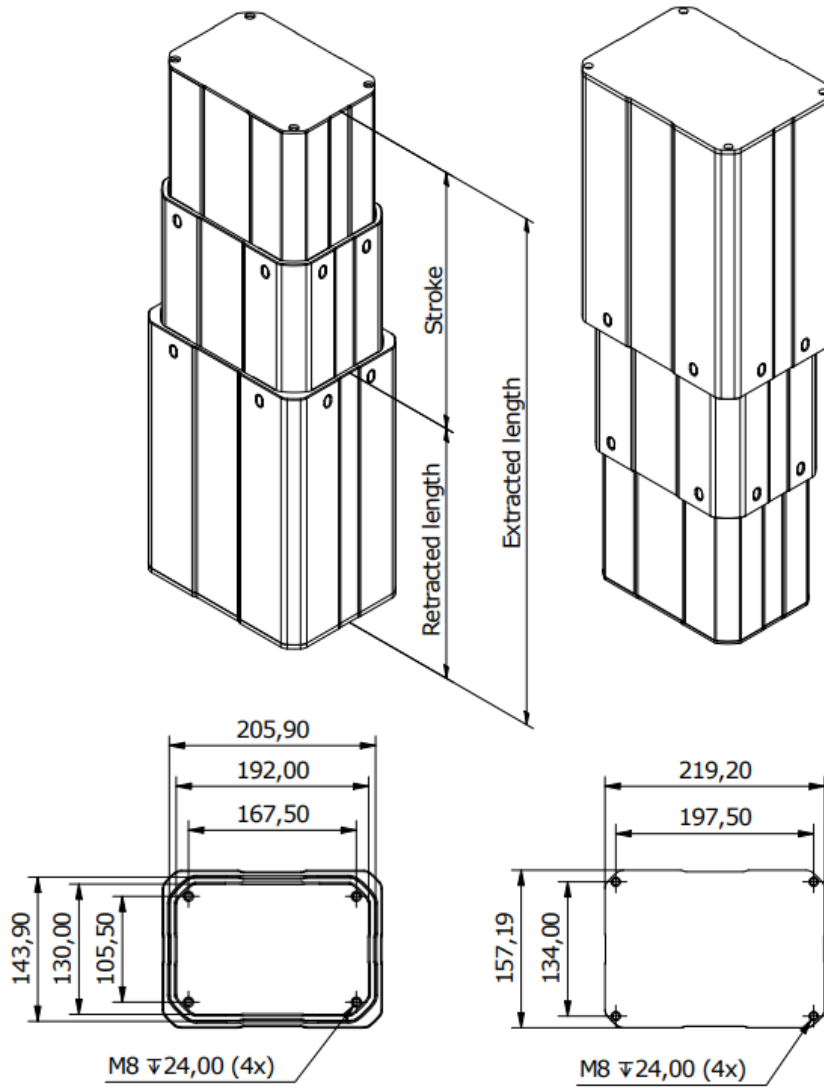
| | DB-EL13 | DB-EL13 | DB-EL13 | DB-ML13 | DB-NL13 |
|---|-----------------------------|----------------|----------------|-----------------|-----------------|
| Force, max push* | 800 N | 1.800 N | 3.000 N | | 5.000 N |
| Self-locking force** | 800 N | 1.800 N | 3.000 N | | 5.000 N |
| Speed @max load | 60 mm/s | 32 mm/s | 16 mm/s | 10 mm/s | 14 mm/s |
| Stroke, S (longer strokes on request) | 50 mm to 1.000 mm | | | 50 mm to 600 mm | 50 mm to 500 mm |
| Retracted length, R*** | $R=S/2+150$ mm | $R=S/2+100$ mm | $R=S/2+150$ mm | $R=S/2+175$ mm | $R=S/2+225$ mm |
| Duty cycle [%] | 10 % (1 min ON / 9 min OFF) | | | | |
| Voltage | | | 24 VDC | | |
| Ambient temp | | | +10°C to +40°C | | |
| Current @max load | 10 A | | | 5 A | 10 A |
| IP Class | IP 30 | | | | |
| Safety factor Static centric load @ max stroke & load* | 15 | 7 | 6 | - | - |

* See diagrams on page 3

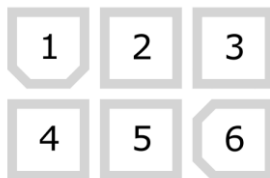
** Only applied when connected by short circuit

*** Longer retracted length enables more offset load, see diagrams on page 3

Technical drawing G13



Pin layout



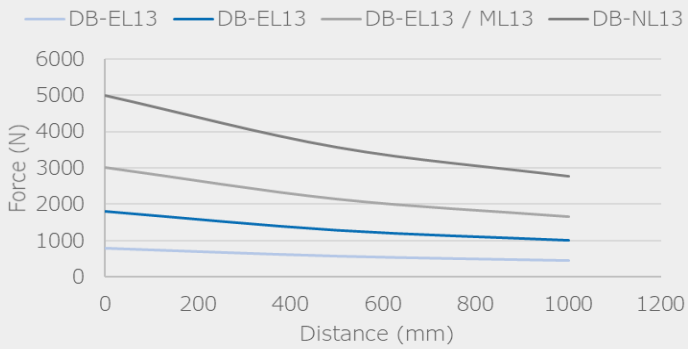
6 pin 172160-1 Male

Connectors

| | Description | Colour |
|----|------------------------------|--------|
| 1. | Motor - | Black |
| 2. | Motor + | Blue |
| 3. | Hall sensor +5V _t | Red |
| 4. | Hall sensor output 2 | Violet |
| 5. | Hall sensor - | Black |
| 6. | Hall sensor output 1 | Green |

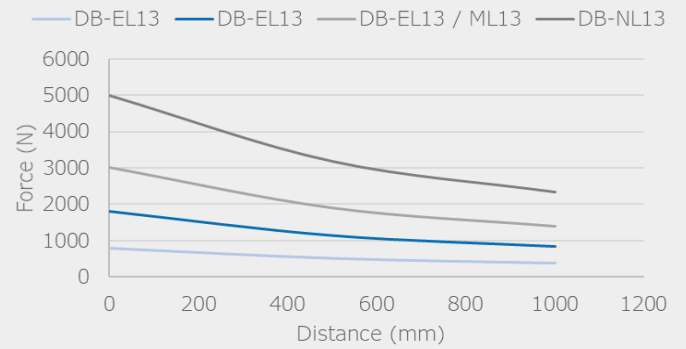
Offset load diagrams

Long retracted length



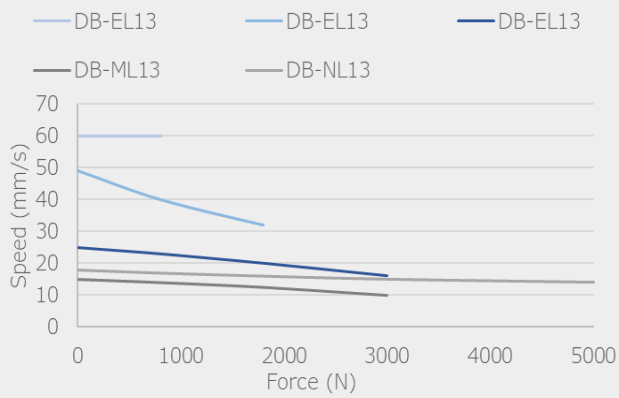
Retracted length: $R = \text{Stroke} + 270 \text{ mm}$

Short retracted length

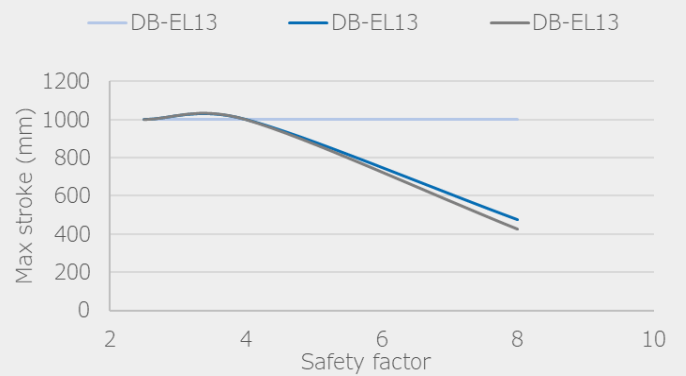


Retracted length: $R = \text{Stroke} + 195 \text{ mm}$

Speed diagram



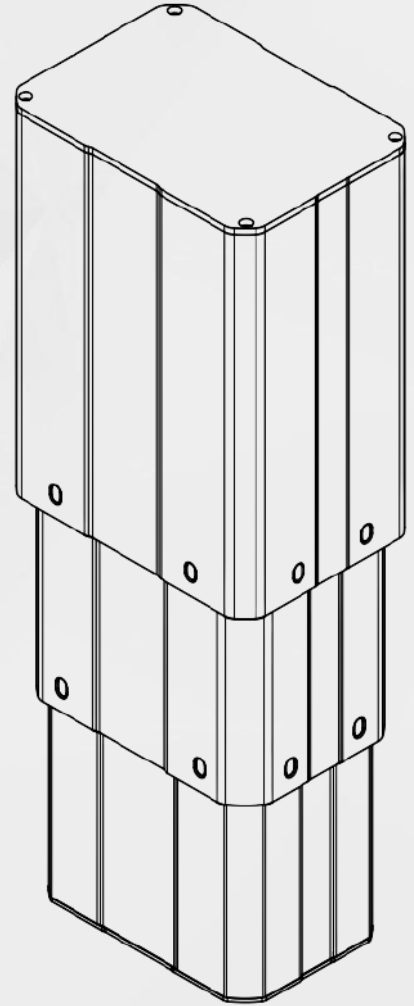
Safety factor diagram



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X2 Technology AB



+46 470 717950



info@x2technology.se



www.x2technology.se



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