

Lifting column



technology[?]

X-series

X13

Max 5.000 N



Description

The X13-column is the most robust column in the industry. It is extremely stable with offset loads and suits demanding applications. The DX13-models enables long strokes with short retracted lengths. With its extremely stiff aluminum tubes and long-life pads, it offers a stable and reliable guiding system that is maintenance free.



 Long lifetime

 Extreme offset capacity

 Extremely robust

Features

Push
Build in Hall Sensors
Cable out small tube
Limit switch

Options

Pull
Potentiometer
Cable out large tube
Cable through
Customizable top/bottom plates

Technical data

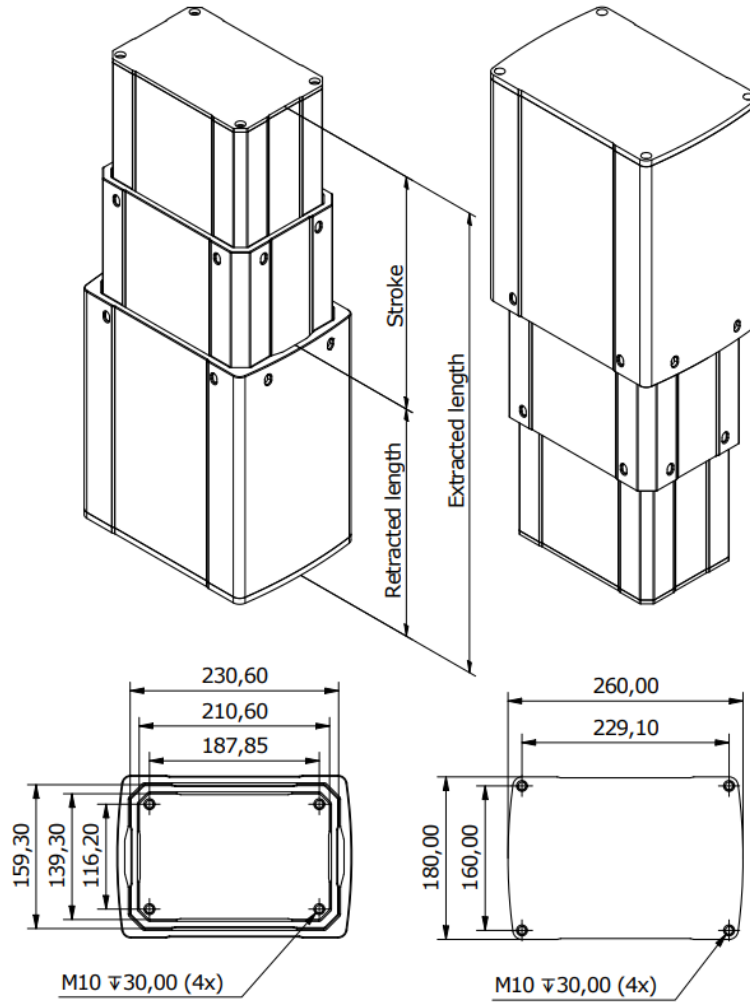
	DX-EL13	DX-EL13	DX-EL13	DX-NL13
Force, max push*	800 N	1.800 N	3.000 N	5.000 N
Self-locking force**	800 N	1.800 N	3.000 N	5.000 N
Speed @max load	60 mm/s	32 mm/s	16 mm/s	14 mm/s
Stroke, S (longer strokes on request)	1.000 mm			500 mm
Retracted length, R***	$R=S/2+150$ mm	$R=S/2+100$ mm	$R=S/2+150$ mm	$R=S/2+225$ 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			
IP Class	IP 30			
Safety factor Static centric load @ max stroke & load*	15	7	6	-

* See diagrams on page 3

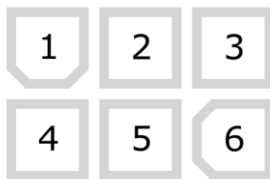
** Only applied when connected by short circuit

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

Technical drawing G13



Pin layout



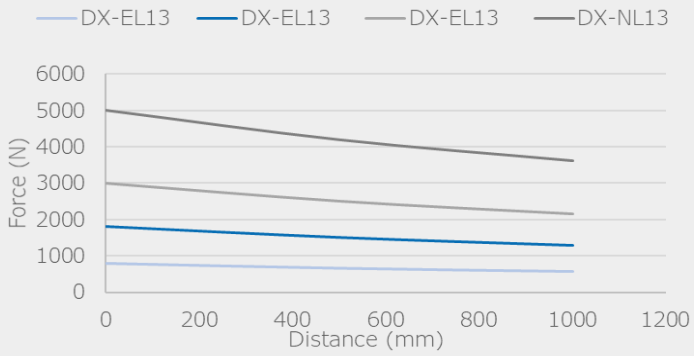
6 pin 172160-1 Male

Connectors

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

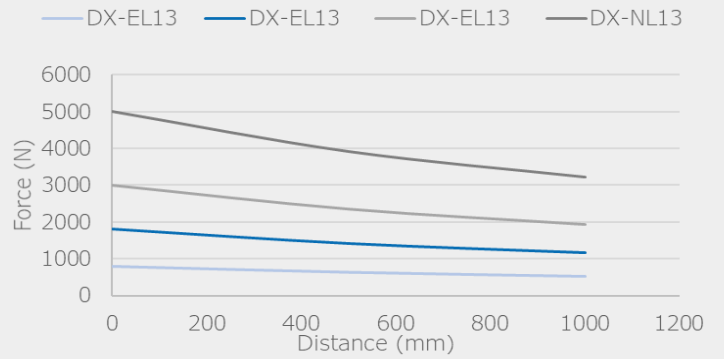
Offset load diagrams

Long retracted length



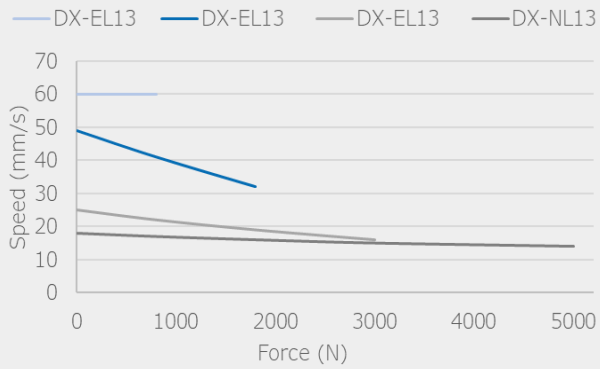
Retracted length: $R = \text{Stroke} + 270 \text{ mm}$

Short retracted length

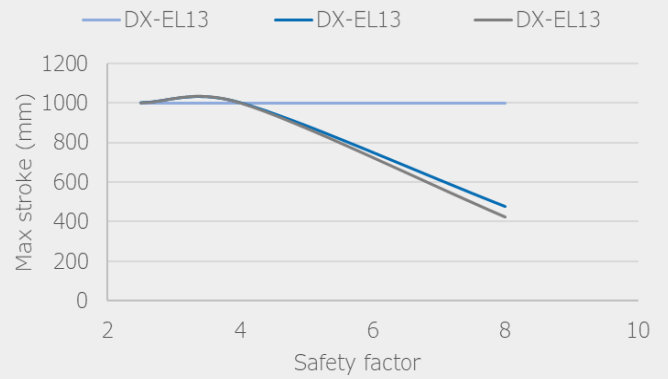


Retracted length: $R = \text{Stroke} + 195 \text{ mm}$

Speed diagram



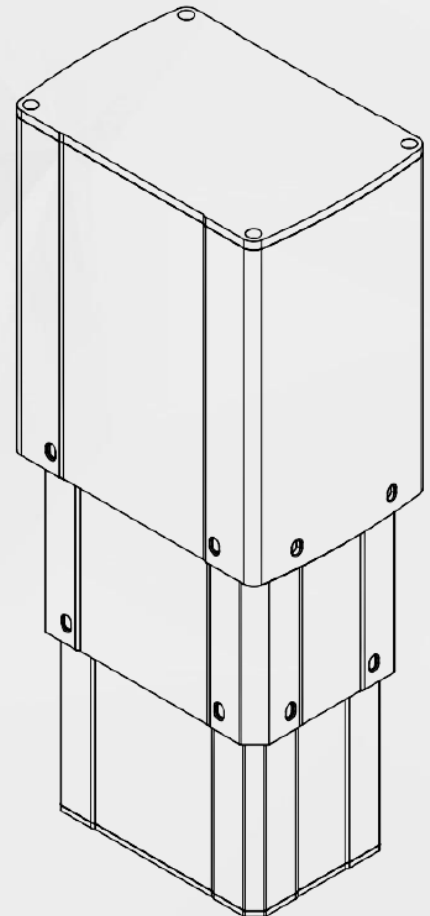
Safety factor diagram



X2 Technology – The Customizer

Before use of products, see general terms & conditions and operating manuals. Lifetime and suitability are depending on application and must therefore be tested by each user. Specifications subject to change without prior notice. All components in this datasheet are property of X2 Technology and may therefore not be used without permission.

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