

# Lifting column



technology<sup>?</sup>

**X-series**

## X13

Max 2.000 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 large tube  
Limit switch

### Options

Potentiometer  
Cable through  
Cable out small tube  
Customizable top/bottom plates

## Technical data

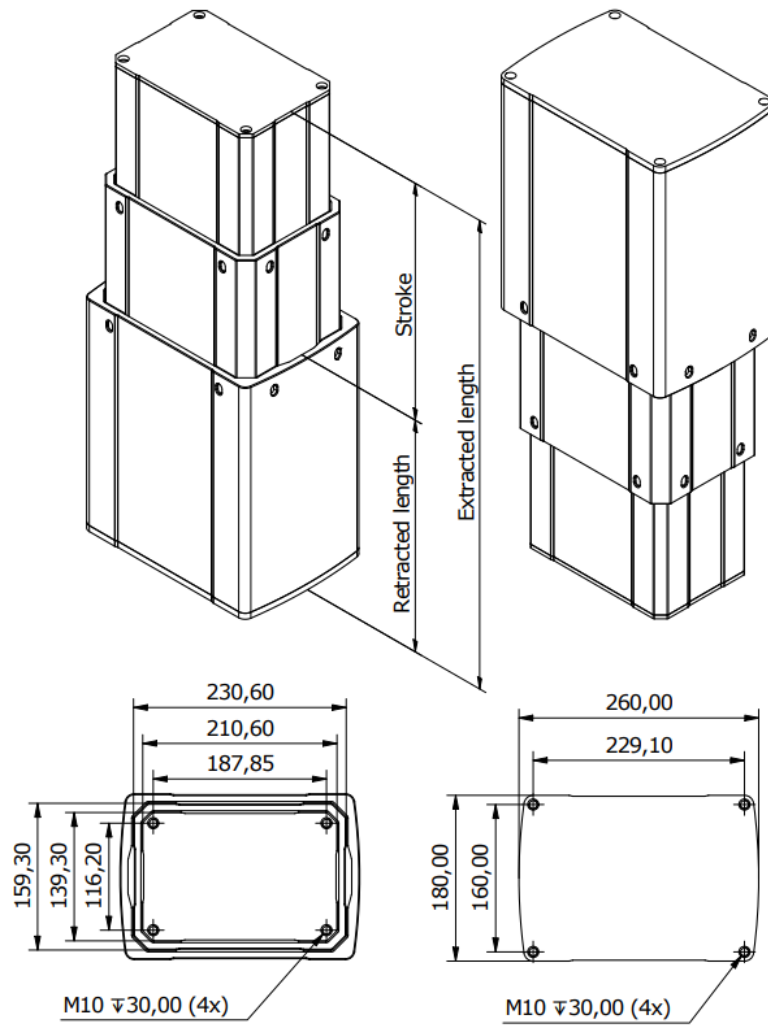
	DX-SJ13	DX-SI13	DX-SH13	DX-EJ13	DX-EI13	DX-SG13	DX-EH13
Force, max push*	1.000 N	1.400 N	1.500 N		1.800 N	2.000 N	
Self-locking force**	1.000 N	1.400 N	1.500 N		1.800 N	2.000 N	
Speed @max load	31 mm/s	23 mm/s	18 mm/s	48 mm/s	36 mm/s	10 mm/s	28 mm/s
Stroke, S (longer strokes on request)	1.000 mm						
Retracted length, R***	$R = S / 2 + 175 \text{ mm}$						
Duty cycle [%]	10% (1 min ON / 9 min OFF)						
Voltage	24 VDC						
Ambient temp	+10°C to +40°C						
Current @max load	5,5 A			10 A		5 A	10 A
IP Class	IP 30						
Safety factor Static centric load @ max stroke & load*	5	3,5	3,25		2,5		

\* See diagrams on page 3

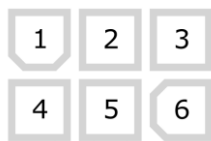
\*\* Only applied when connected by short circuit

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

## Technical drawing



### Pin layout (SB-E)



6 pin 172160-1 Male

### Pin layout (SB-S)



8 pin JS-1149-08 Male

## Connectors

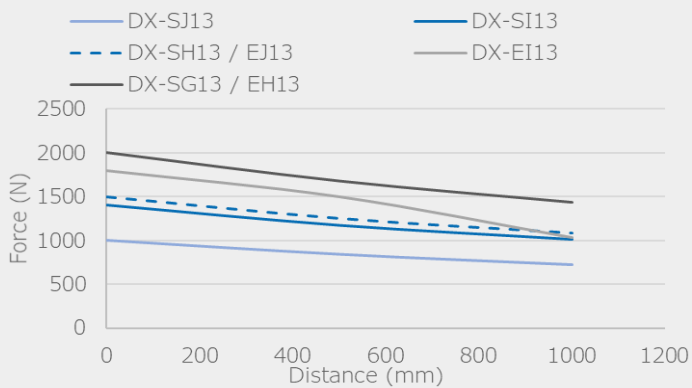
	Description	Colour
1.	Motor -	Black
2.	Motor +	Blue
3.	Hall sensor +5V <sub>1</sub>	Red
4.	Hall sensor output 2	Violet
5.	Hall sensor -	Black
6.	Hall sensor output 1	Green

## Connectors

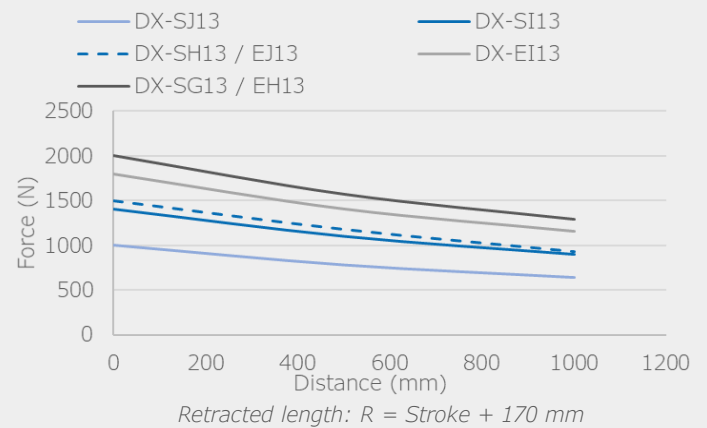
	Description	Colour
1.	Hall sensor 1	White
2.	+5V	Red
3.	Limit switch 2	-
4.	Motor+	Green (motor: White)
5.	Hall sensor 2	Blue
6.	Limit switch 1	-
7.	GND	Black
8.	Motor-	Yellow

## Offset load diagrams

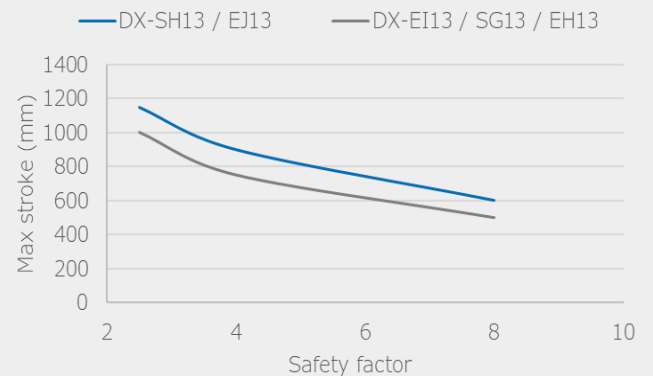
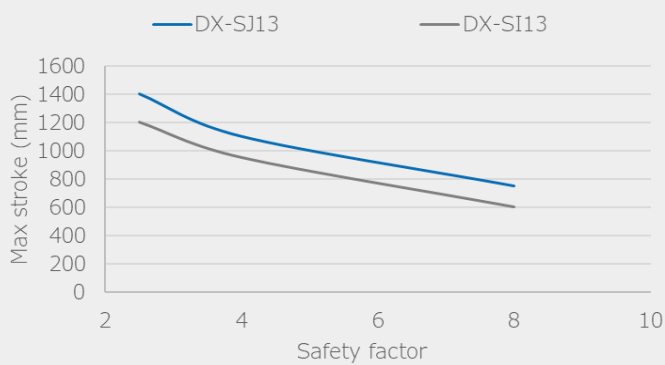
Long retracted length



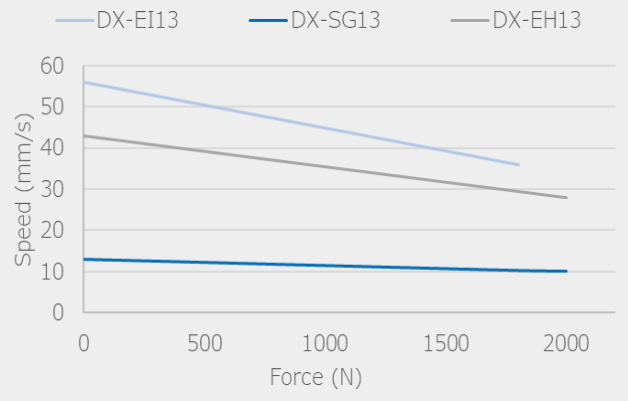
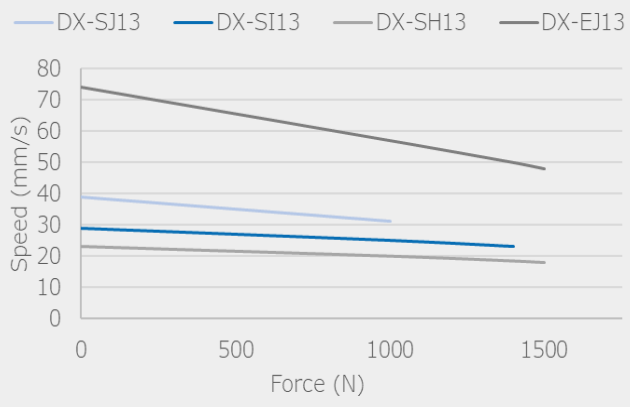
Short retracted length



## Safety factor diagrams



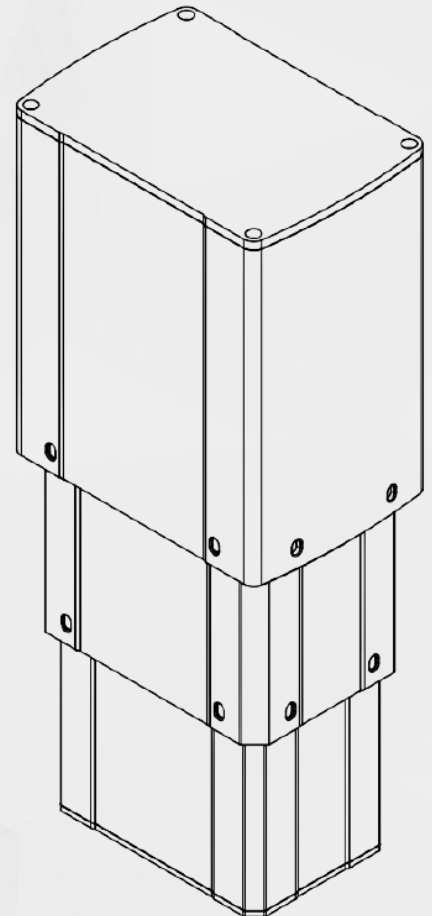
## Speed diagrams



# 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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