

Lifting column



technology[?]

F-series

F13

F23


Max 2.500 N



Description

The F13 and F23 models are designed with asymmetric tubes for a softer design compared to traditional lifting columns. With its stiff aluminum tubes and long-life pads, it offers a stable and reliable guiding system that is maintenance free.



 Long lifetime

 Low noise

 Robust

Features

Push
Cable out large tube
Build in Hall Sensors
Limit switch

Options

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

Technical data

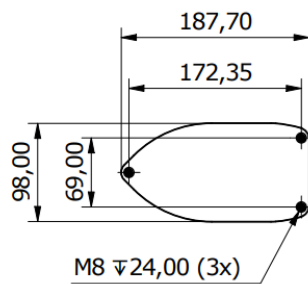
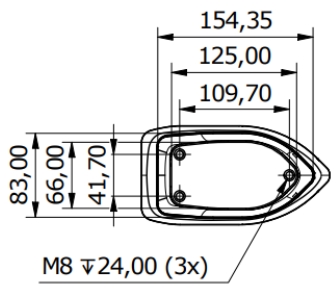
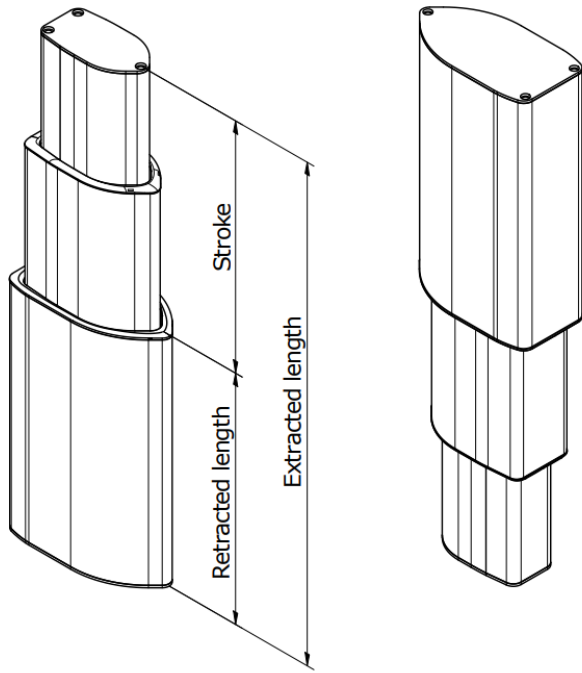
	DF-UZ13	DF-VE13	DF-VD13	SF-VF13 SF-VF23	SF-VD13 SF-VD23	SF-VE13 SF-VE23
Force, max push*	600 N	800 N	1.000 N	1.500 N	1.900 N	2.500 N
Self-locking force**	700 N	500 N	800 N	700 N	1.500 N	2.000 N
Speed @max load	35 mm/s	26 mm/s	18 mm/s	26 mm/s	20 mm/s	13 mm/s
Stroke, S (longer strokes on request)	50 mm to 800 mm			50 mm to 700 mm		
Retracted length, R***	$R = S/2 + 187 \text{ mm}$			$R = S + 120 \text{ mm}$		
Duty cycle [%]	10 % (1 min ON / 9 min OFF)					
Voltage	24 VDC					
Ambient temp	+10°C to +40°C					
Current @max load	5 A	6 A	5A	6 A		
IP Class	IP 30					
Safety factor Static centric load @ max stroke & load*	-	-	-	4,5	2,5	4

* See diagrams on page 3

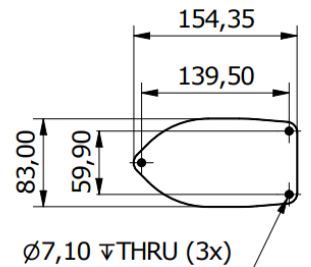
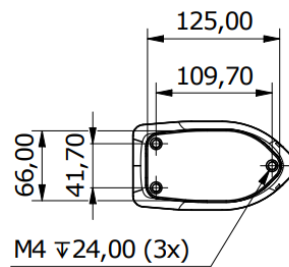
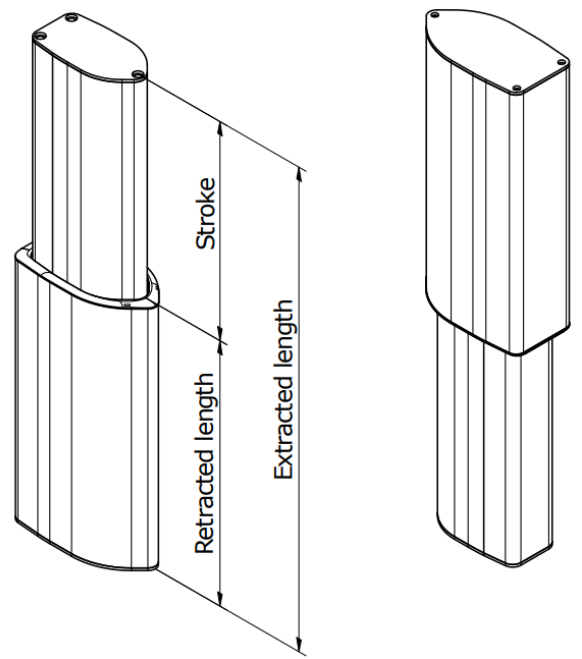
** Only applied when connected by short circuit

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

Technical drawing F13



Technical drawing F23



Pin layout



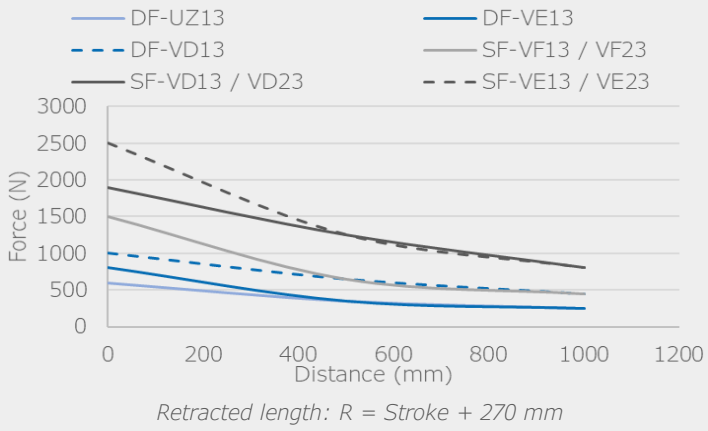
8 pin JS-1149-08 Male

Connectors

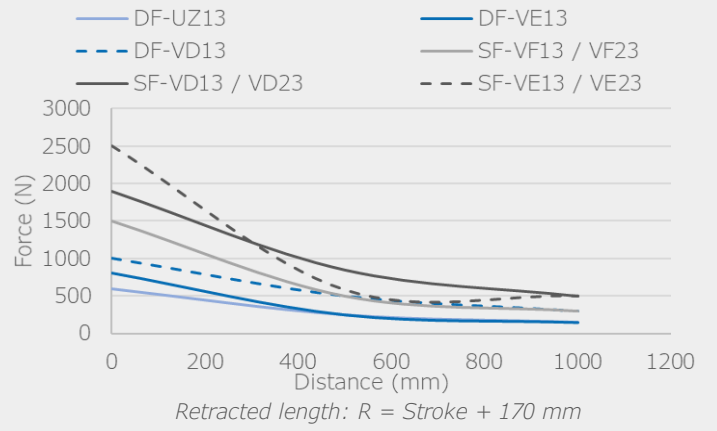
	Description
1.	Hall sensor 1
2.	+5V
3.	Limit switch 2
4.	Motor+
5.	Hall sensor 2
6.	Limit switch 1
7.	GND
8.	Motor-

Offset load diagrams

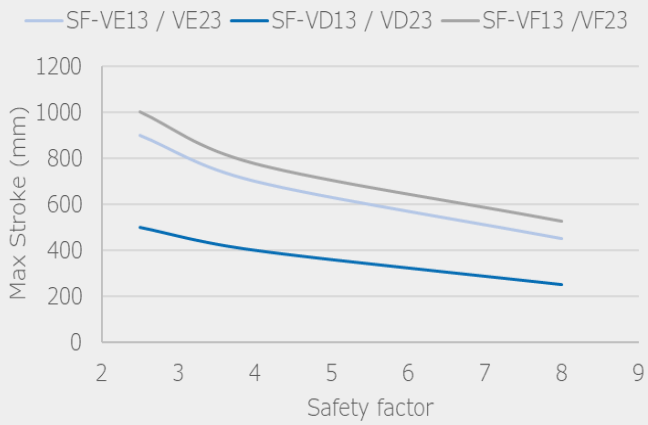
Long retracted length



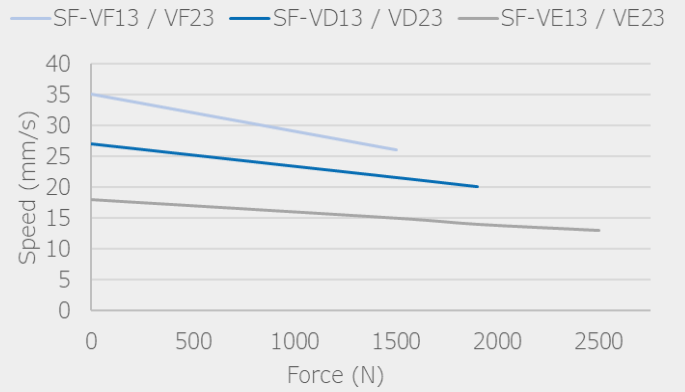
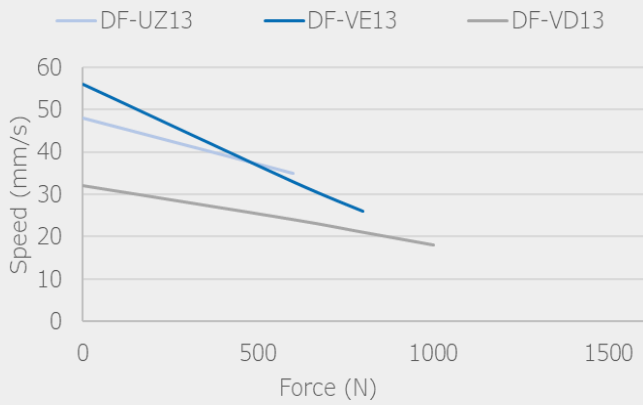
Short retracted length



Safety factor diagram



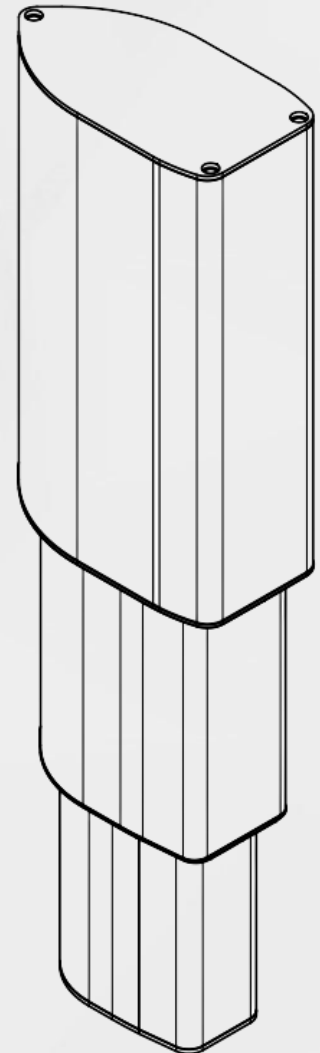
Speed diagram



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