

## Compact Linear Drives with Stepper motor

612-CLD25-SM-C16 612-CLD25-SM-LS-C16 612-CLD25-SM-LSPL-C16

### available with travel 25 / 50 / 100mm

available with flanges CF16 / CF40 / KF16 / KF40

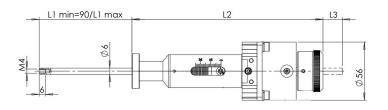
Allectra offers a full series of linear drives with stepper motor operation. Versions with 25, 50 and 100 mmm travel are available.

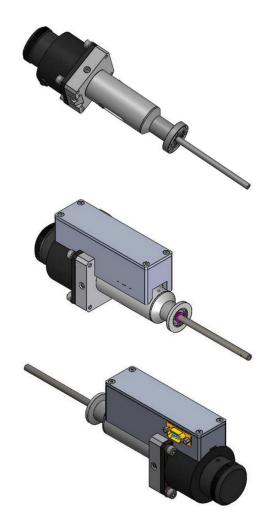


They are offered on KF and CF flanges, the sizes , DN16CF / DN40CF / 16KF / 40KF are the standards

The drives are offered without limit switches (**\$M**), with limit switch box, fully wired to Sub-D 9 connector (**\$M-L\$**), with limit switch box, including a high precision switch (**\$M-L\$PL**)

Specifications	
Vacuum	< 10- <sup>10</sup> mbar (HV/ UHV)
Bakeout Temperature	220°C (motor removed)
Travel	25mm / 50mm / 100mm
Flanges	DN16CF / DN40CF / 16KF / 40KF
Axis	6mm Ø with M4 tapped hole (vented)
Min.axis length	90mm
Axial Load	5Kg
Travel	$5\mu$ m/full step
Bellows	Edge welded bellows
Motor connector	Without limit switch box: open cable ends Versions LS and LSPL: 9 pin Sub-D, male
Phase current	1.4A (2 phase connection)
Options	
Flanges	other standard flanges and custom flanges
Axis	other lenghts, modified end, 8mm ø
Indexer / Encoder	an encoder with 500 counts/rev. can be added (Part code 612-CLD-ENC)





Top: Version without limit switch box (25mm travel with CF16 flange) Mid and low: With limit swich box 25mm travel with KF16 flange)

Left: Version without Limit switch box

File: 621-CLD-SM-E Last revised 2021-08-12

All data given in this sheet are carefully checked but subject to change at any time.

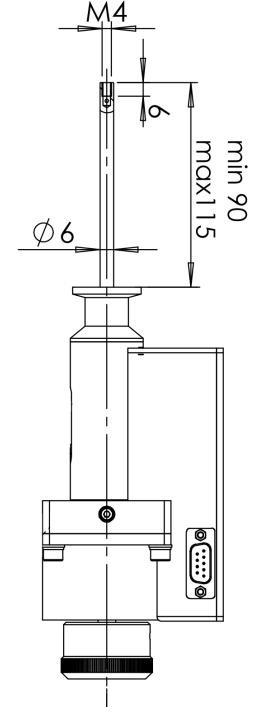
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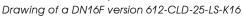


# Specification of limit switch box / limit switches

The switches are mounted inside a closed box. Box including motor can be removed for bakeout.

Specifications	
Standard Switches	- LS -
Туре	Mechanical switches with lever and reel, normally closed + normall open 2 off, adjustable
Hysteresis	typial 0.5mm travel
Electrical ratings	12V 6A /220V 0,1A
Precision Switch	- LSPL -
Туре	Rear switch (shaft retracted) is replaced by a 2 stage precision switch, adjustable
Front switch	Standard switch as above, normally closed is wired only
Rear switch	High precision: mechanical 2-stage switch with electronic enhancement. Stage 1: Signal with a repeatability < +/-5 $\mu$ m typical ~+/-1 $\mu$ m Stage 2: normally closed switch
	The stage 1 position can be overrun by 1mm, The stage 2 swicth opens typically 200-500 $\mu$ m after Stage 1.
Required power	5 – 24V DC
Signal outputs	The precision switch signals are voltage / current outputs. Output voltage = Supply voltage with a resistivity of 1.1 KOhm
	I max @5V: 4,5 mA I max @24V: 22 mA
Options	
Change of switch	Precision switch can be mounted in front position







The electronic enhancement box can directy plugged into the 9-pin Sub.D connector of the drive.

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