Lifting Column LC1600

24 Vdc - load up to 1600 N

» Ordering Key - see page 81
» Glossary - see page 85
» Electric Wiring Diagram - see page 57

Standard Features and Benefits

- For medical and ergonomic automation applications
- Self supporting column in extruded anodized aluminum
- Low weight and extremily quiet operation
- Thomson Whispertrak™ drive technology
- High load torque capability
- Maintenance free
- Dynamic braking and load holding brake
- Electronic limit switches and mid-stroke protection

General Specifications

Parameter	LC1600
Screw type	trapezoidal
Internally restrained	yes
Manual override	no
Dynamic braking	yes
Holding brake	yes
End of stroke protection	electronic limit switches (ELS)
Mid stroke protection	yes
Motor protection	no
Motor connection	cable
Motor connector LX version NX and NE versions	 flying leads Molex 8 pin plug
Certificates	CE
Options	ELS encoder position feedback

Performance Specifications

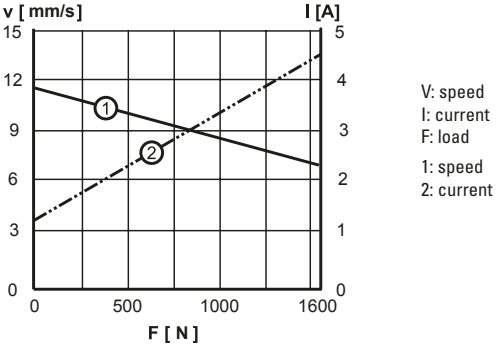
Parameter		LC1600
Maximum load	[N]	1600
Maximum load torque, dynamic / static	[Nm]	200 / 500
Speed, at no load / at maximum load	[mm/s]	11 / 6.5
Available input voltages	[Vdc]	24
Standard stroke lengths (S)	[mm]	200, 250, 300, 350, 400
Operating temperature limits	[°C]	0 to +40
Full load duty cycle @ 20 °C	[%]	10
Maximum on time	[s]	60
Maximum sound level	[dB]	45
Lead cross section	[mm²]	1.5
Standard cable length LX version NX and NE versions	[mm]	 900 1900
Protection class		IP44

Compatible Controls

Control model	See page
DCG-154 for operation of single unit	66
DCG-254 for synchronous operation of two units	66

Performance Diagrams

Speed and Current vs. Load



V: speed
I: current
F: load

1: speed
2: current

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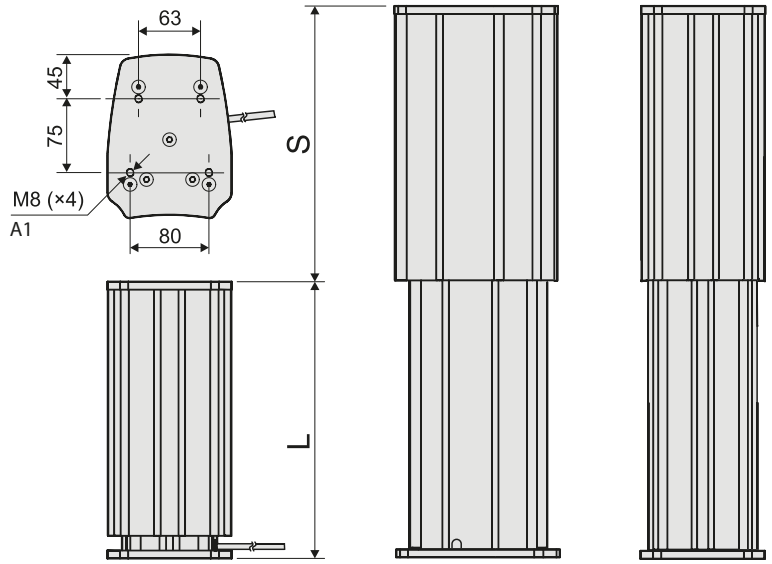

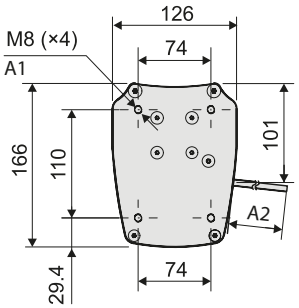

S: stroke
L: retracted length
A1: mounting screws must not enter deeper than 10 mm.
A2: LX version cable length = 900 mm, NX and NE versions = 1900 mm.

Stroke, retracted length and weight relationship						
Ordering stroke (S)	[mm]	200	250	300	350	400
Minimum retracted length (L min)	[mm]	380	430	480	581	631
Weight of unit	[kg]	9.1	9.8	10.5	11.8	12.4

The desired ordering stroke (S) will determine the minimum retracted length (L min) and the weight of the unit. The table provides the corresponding minimum retracted length (L min) and weight values to each of the available standard stroke lengths (S).