Actuator LA28 Compact
Data sheet
The LA28 Compact is a small and powerful actuator designed for use in system solutions for healthcare equipment or industrial applications. Ideal applications are for example wheelchairs, treatment chairs, patient lifts or beds.

Some benefits of the LA28 compact are:
- Compact design and small installation dimensions
- Metal back fixture makes the actuator capable of withstanding high static pull force and ensures high safety
- Quiet operation
- 3500N in push (with strong motor) and 2000N in pull
- Options such as spline and safety nut to ensure safe operation at all times.

Features and options:
- 12V / 24V DC permanent magnet motor
- Thrust up to 3500 N (with strong motor)
- Stainless steel piston rod
- Elegant and compact design with small installation dimensions
- Colour: black
- Low noise level
- Available with extra powerful motor (strong motor), increases speed and strength
- Brake - increase self-locking ability for LA28C actuators with 4, 6, 9 or 12 mm pitch with or without strong motor
- Reed-switch (LA28C = 8 pulses/spindle rev. and LA28C with strong motor = 6 pulses/Spindle rev.)
- Splines function (the actuator can only push)
- Safety nut in push direction only
- 0.2 m and 0.4 m coiled cable
- Motor and terminal cover
- Metal back fixture
- Protection class IPX6

Usage:
- Duty cycle: Max 10 % or max. 2 min. continuous use followed by 18 min. not in use
- Ambient temperatures: +5° to +40°C
- Compatibility: CB8, CB12, CB14 and CBJ
- Approvals: IEC 60601-1, ANSI/AAMI ES60601-1 and CAN/CSA-22.2 No 60601-1
### Technical specifications:

**LA28 Compact with standard motor**

<table>
<thead>
<tr>
<th>Order number</th>
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<th>12 V</th>
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**LA28 Compact with "S" motor**

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**LA28 Compact with 12V motor**

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Above data: the measurements are made with the actuators connected to a stable power supply.
A reed-switch has no influence on above mentioned data.
LA28 Compact
Ordering example:

Cables:
- Jack cables
  - 0 = Straight 2.3 m
  - 1 = Straight 1.05 m
  - 2 = Coiled 0.4 m
  - 3 = Coiled 0.2 m
- 4 = Cable without plug 1.5 m
- 5 = Cable without plug 1.0 m
- 6 = 7 cm leads with spade connectors only
- X = Other cable/Length

IP-Degree:
- 2 = IPX6
- 3 = IPXX (without cover)
- 4 = IP20 (with cover)

Motor type:
- 0 = 24V
  - 1 = 24V S-motor
  - 2 = 12V S-motor
- XXX = mm

Stroke length:
- Max. with 2, 2.5, 3, 4 and 6 mm pitch: 400 mm
- Max. with 9 and 12 mm pitch: 600 mm

Inst. Dim.:
- 0 = Standard (S + 156 mm)
- X = Other inst. dimension

Option:
- 1 = Safety nut RECOMMENDED
- 0 = None
- 2 = Steel Splines
- 3 = Steel Splines with safety nut
- 4 = Brake
- 5 = Brake with safety nut
- - = black

Option:
(Motor position)
- A = 0°
  - E = 120°
  - I = 240°
- B = 30°
  - F = 150°
  - J = 270°
- C = 60°
  - G = 180°
  - K = 300°
- D = 90°
  - H = 210°
  - L = 330°
- 0 = None
- R = reed switch

Back fixture:
- 1 = Standard (Plastic) "01" (see dimension drawing re. orientation)
- 2 = Turned 90 degrees (Plastic) "02" (see dim. drawing re. orientation)
- 3 = Metal "01" (Aluminium) article number: 028707* (without slot)
- 4 = Metal "02" (Aluminium) article number: 028708* (without slot)

Spindel type:
- 1 = 3 mm (1 threaded)
- 2 = 6 mm (2 threaded)
- 3 = 9 mm (3 threaded)
- 4 = 4 mm (2 threaded)
- 5 = 2,5 mm (1 threaded)
- 6 = 2 mm (1 threaded)
- 7 = 12 mm (4 threaded)

Actuator type:
- 28 = LA28C
Dimensions:
LA28 Compact without cover.
LA28 Compact with cover

LA28 Compact with IPX6 housing

Drawing no. 028639

Drawing no. 028730
Installation dimensions:
S + 156: LA28 Compact (with or without safety nut), minimum inst. dim. 256 mm.
S + 167: LA28 Compact with splines, minimum inst. dim. 267 mm.
S + 181: LA28 Compact with safety nut and splines, minimum inst. dim. 281 mm.
S + 188: LA28 Compact with brake, minimum inst. dim. 288 mm.

Note:
The above data is with at stroke length of 100 mm.
In certain circumstances a stroke length of less than 100 mm is possible - please contact LINAK A/S.

Compatible control boxes:

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