LINCOLN

Electrically driven lubricator
EDL1

for grease NLGI 1 and 2
for applications with long distances between filling pumps and lubrication points

Typical installation in a cabinet

Advantages:

- High output pressure enables provision of lubricant to progressive metering devices and distant lubrication points
- Easy to use
- Low maintenance
- Integrated control board for both impulse- and time-controlled lubrication
- Potential-free contacts notify of lubrication failure
- Protection class IP 65
- Optional pressure switch available

The Lincoln EDL1 is an innovative dosage and pressure-booster pump of unmatched simplicity. It is designed to increase input pressures of at least 2 bar *(29 psi)* up to a maximum of 280 bar *(4 060 psi)*.

Utilizing progressive metering devices, the EDL1 has been developed for usage in sectional lubrication systems as well as in large machines with different lubrication requirements at varying distances.

The Lincoln EDL1 operates effectively in challenging environments, including outdoor applications with fluctuating temperatures. Because lubricant is supplied by means of filling pumps or pressurized cartridges, the device provides flexibility and self-sufficient function, even in remote locations.

The EDL1 is suitable for food and beverage and railroad applications, as well as cement and other heavy industries. It also can be utilized in many industrial applications that require an affordable sectional lubrication system.

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Operational benefits

- **Cost-effective solution**
  Affordable lubricator can be used with existing tubing, fitting material and barrel pumps
- **Lower operational costs**
  No compressed air required; power consumption reduced
- **Environmentally friendly**
  Electric power can be obtained using solar panels in outdoor applications
- **Virtually maintenance free**
  No preventive maintenance necessary
- **User-friendly design**
  Easy to setup and operate
- **Remote monitoring**
  Fault or blockage signals are sent in case of lubrication failure
- **Efficient**
  Requires very low input pressure (2 bar/*29 psi*), enabling use of smaller, less-expensive main lines

How it works

The integrated control board initiates a lubrication cycle based on adjustable intervals. According to the required settings, this can be accomplished by preset time intervals, by machine contact or by impulses generated by an external sensor.

The EDL1 utilizes an internal piston to dispense lubricant from a filling pump or pressurized cartridge to the connected lubrication system or lubrication point.

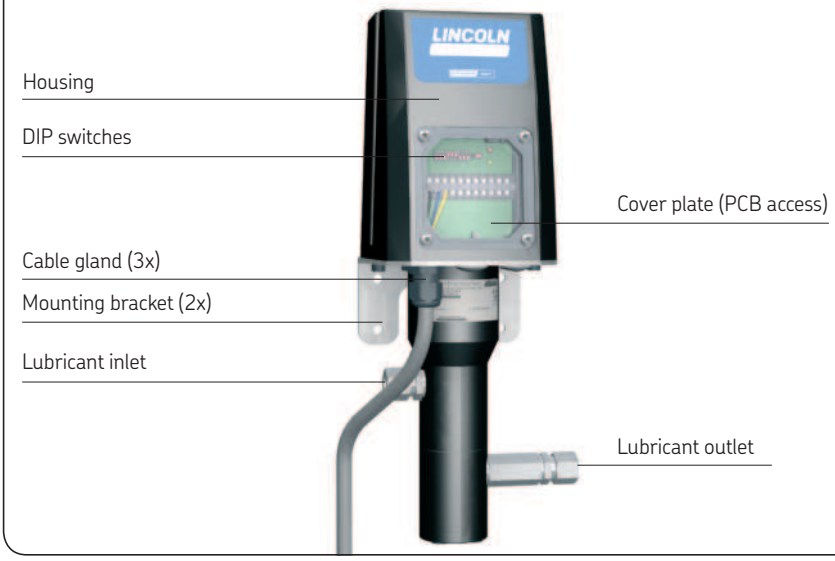
Basic layout and settings

Settings via DIP switches:

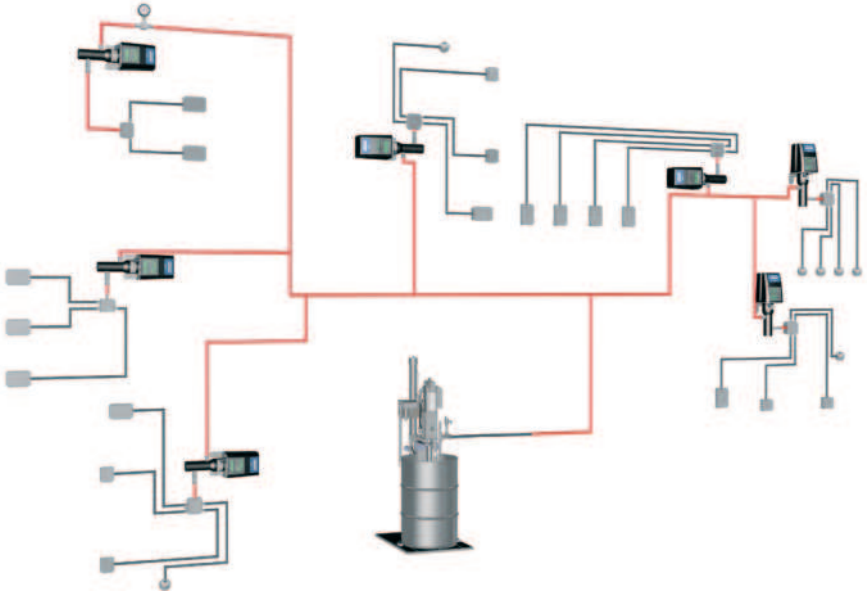
- 1/2 or 1/1 volume/stroke
- Pause time
- Operating modes (ON/OFF; machine contact; impulse)
- Pressure switch ON/OFF

Cable connections:

- Power supply
- External sensor
- Feedback signals



Typical layout of a sectional lubrication system
with barrel pump, EDL1 and progressive metering devices



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Technical data

Lubricant	Grease NLGI 1 and 2
Number of lubricant outlets	1
Input pressure	2–270 bar *(29–3 920 psi)*
Outlet pressure	max. 280 bar *(max. 4 060 psi)*
Delivery volume	max. 1,0 cm^3/stroke *(max. 0,06 $in.^3$/stroke)*
Operating frequency	max. 1 stroke/minute
Output volume	1/2 or 1/1 of max. volume per stroke
Operating temperature	–25 to +70 °C *(–13 to +158 °F)*
Operating voltage	24 V DC +/- 10 %
Protection class	IP65
Corrosion protection class DIN EN ISO 12944-2	C3

Dimensions

Size (LxWxD)	350x116x114 mm *(13,8x4,6x4,5 in.)*
Weight	4 kg *(8,8 lbs)*
Installation position	any, but not rotating

Spare parts

Spare parts	Part number
Housing cover assembly 1 x housing cover incl. moulded seal and label 1 x cover plate incl. seal 1 x moulded seal 2 x hex nut M5 C 2 x hex socket head screw M5x12 C (8,8) 4 x flat-head screw incl. seal	**556-60094-1**
Control PCB Control PCB 24 V DC	**556-60095-1**
Hydraulic fitting	
1 x Fitting GE 6-L G 1/4A CF (inlet/outlet)	**223-12477-8**
1 x Fitting GE 8-L G 1/4A CF (inlet/outlet)	**223-12477-6**
1 x Fitting GE 10-L G 1/4A CF (inlet/outlet)	**223-12272-9**
Check valve Check valve G1/4 A x G1/4	**556-60097-1**
Cable gland assembly 3 x cable gland M16 x 1.5 2 x blind plug M16 x 1.5	**556-60096-1**
Pressure switch	**DSB1-S30000X-1A-01**
Connection cable for pressure switch	**664-85046-3**

Order code

EDL1 -100-01 - 00 +924

Pump type
EDL1

Version[1)]

Corrosion protection; inlet/outlet position
1 = C3; left/right
2 = C3; right/right
3 = C3; right/left
4 = C3; left/left

Inlet fitting[1)2)]
0 = without
5 = GE-L ø10 mm

Outlet fitting at check valve[1)2)]
0 = without
5 = GE-L ø10 mm
E = GE-L ø10 mm with pressure switch (300 bar / *4350 psi*) and cable

Controller
01 = ON/OFF mode
11 = Machine contact (automatic mode)
61= Sensor (pulse mode)

Electrical connection[1)]
00 = 3 x blind plug
01 = 1x M16 cable screw connection and 2 x blind plug
11 = 2x M16 cable screw connection and 2 x blind plug
31 = 3x M16 cable screw connection

Power supply
924 = 24 V DC

[1)] Further options on request
[2)] Material and inlet/outlet position defined by version

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These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

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