

LC101 Lubrication Controller

Modes of operation

Control of pump OFF Time: Time basis or machine stroke count

Control of pump ON Time: Time basis, pump rotation count, or cycle pin count

Fault Monitoring:

Stroke/Prox1: Stroke input signal when controller programmed for Pump Off Time **Count mode**. Monitors for loss of stroke signal during Pump Off cycle. Monitoring time adjustable.

or

Cycle pin signal from series progressive distribution block when controller programmed for Pump Off Time **Time mode**. Monitoring enabled when adjustable time value programmed. Monitors for loss of cycle pin signal during Pump On cycle.

Cycle Prox2: Cycle pin signal from series progressive distribution block when controller programmed for Pump Off Time **Time mode or Count mode**. Monitoring enabled when adjustable time value programmed. Monitors for loss of cycle pin signal during Pump On cycle.

NOTE: Each proximity input monitoring time may be independently set. None, one, or both proximity inputs may be enabled (will vary with programming modes). An electronic proximity switch or mechanical cycle switch may be used to provide an input signal.

Pump Rotation: Enabled only when Pump ON Time is set for **Count**. Monitors only during a Pump On cycle. Nonadjustable monitoring time of 30 seconds.

Grease Level: Enabled all the time but only monitors during a Pump On cycle for a + dc signal from the level sensor indicating grease level OK.. (+ input power jumper required if no level sensor used)

Over Pressure: Enabled all the time but only monitors during a pump On cycle for **no** + dc signal from over pressure switch. (No power jumper required if not used)

Digital Displays:

Pump OFF Time: Displays current OFF time or count
Displays Stroke/Prox1 time setting during programming
Displays "FAIL" when a OFF cycle fault has occurred (count mode)

Pump ON Time: Displays current ON time or count
Displays Cycle Prox2 time setting during programming
Displays "FAIL" when an ON cycle fault has occurred

Indicator Lights:

Power In: Lit when supply power present
Alarm On: Lit when controller is in an alarm condition
Pump ON: Lit when pump relay energized
Cycle Alarm Enabled: Lit when one or both proximity input monitoring enabled
Time: Lit to indicate programmed mode of operation
Count: Lit to indicate programmed mode of operation
Stroke/Prox 1: Flashes when input signal is received
Cycle Prox 2: Flashes when input signal received
Pump Rotation: Flashes when input signal received
Grease Level: Lit when **loss** of input signal (may flash when grease level near minimum or air bubble within reservoir)
Over Pressure: Lit when input signal received

Buttons:

Test/Reset: Push/release to clear a system fault or for test lube cycle
Show Settings: Push once to display programmed PUMP OFF and PUMP ON settings.
Push twice to display Prox 1 and 2 monitoring settings
Push three to display controller program version

***** Custom firmware for the LC101 is available enabling any operation or function of the controller to be modified for special applications.**