

M410 Platform Leveler



CERT. #112109

Application:

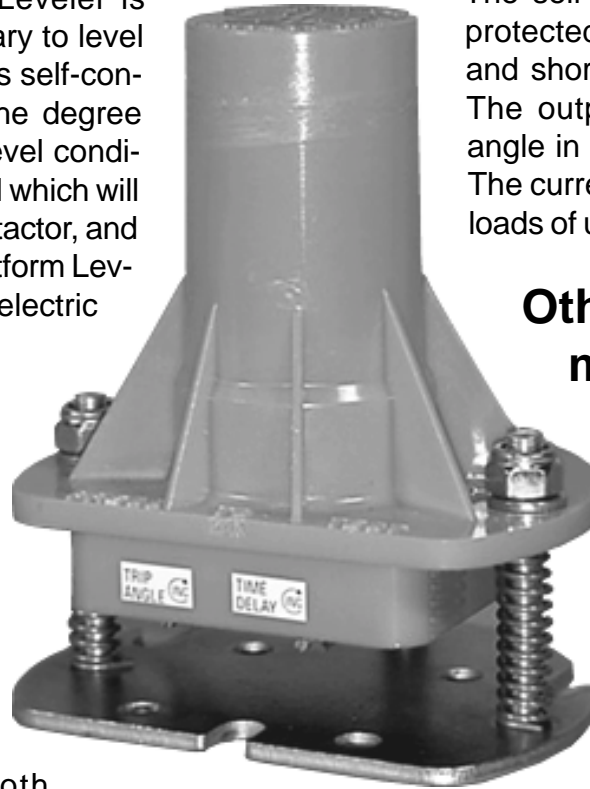
The Model 410 Platform Leveler is used wherever it is necessary to level a platform in one plane. This self-contained control can sense the degree and direction of an out-of-level condition, provide an output signal which will actuate a valve or motor contactor, and relevel the platform. The Platform Leveler can be used with both electric and hydraulic actuators.

Features:

The Model 410 has adjustments for angular sensitivity and electronic damping. The sensitivity or trip angle can be adjusted from .5 degrees to 6 degrees. The time delay can be adjusted from 0 to 3 seconds. Both parameters can be factory set for a specific requirement.

The sensing mechanism is a gimbal-mounted pendulum which is inductively coupled to the position-sensing electronics. The pendulum is viscously damped with a silicone fluid to prevent erratic oscillation due to vibration or other momentary inertial force.

Indicating lamps are located at the corners of the "+Y and -Y" axis for assistance in setup and system checkout. The lamps (LED's) are undamped to eliminate error in setup due to influence of the electronic time delay.



The self-contained electronics are protected against reverse polarity and short circuiting of the outputs. The outputs are off until the trip angle in each direction is reached. The current limited output can drive loads of up to 1.2 amp continuously.

Other available models:

For level sensing, see Data Sheets 106 and 107 which describe the Model 400 Omni Directional and Model 420 Di-axial Level Sensors. Model 425 (Data Sheet 114) provides proportional "X" and "Y" axis output.

Specifications:

- Supply Voltage: 10 to 60 VDC
Min voltage 8.5 vdc, Max voltage 85 vdc
- Output: VS @ 1.2 amp continuous
- Trip Angle: 0.5 – 3.0 degrees or
3.5 – 6.0 degrees
(field adjustable)
- Time Delay: 0 - 3 seconds (field adjustable)
- Accuracy: Trip point repeatable within +/- .1°
- Tolerance: +0° / -10%
- Hysteresis: .3°
- Idle Current Draw: 7mA (no load)
- Operating Temperature: -40° C to +70° C

M410 Dimensions and Installation

