

H6601 Electronic Controller

with time lag compensation



- Unique delay compensation adjusts response based on distance transported
 - Stabilizes systems that have time delayed reaction to the sensor
 - Microprocessor-based
- Adaptable inputs accept wide range of transducers and sensors
 - Simplified, menu-driven setup
 - Alarm output signals system faults

TYPICAL APPLICATIONS

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|---|---|
| <ul style="list-style-type: none"> –CAMBER (LATERAL) COMPENSATION –DOWNSTREAM DETECTOR –FEEDBACKWARD CASCADE CONTROL | <ul style="list-style-type: none"> –STEERING GUIDES –FABRIC SPREADING |
|---|---|

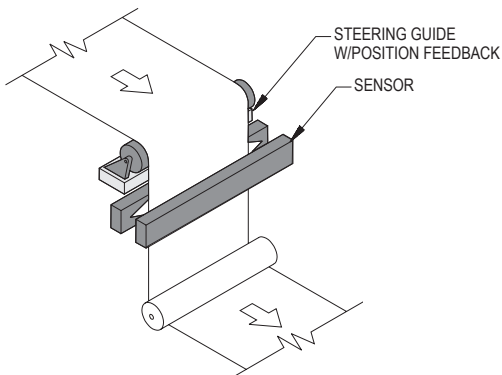
Fives North American's H6601 is an innovative controller designed to provide stable control in applications where time lag exists between the actuation point and the resulting movement at the sensing point. This time lag can be caused by transport between the actuation and sensing points, or delayed process response to actuation. It is often attributable to improperly placed equipment due to process geometry or lack of necessary room. The H6601 cannot provide the optimized control of a properly designed real time system. However, it does provide the capability to stabilize systems that would otherwise suffer from oscillating overshoot and are impossible to tune with a standard PID controller.

The H6601 combines the features of a standard PID guiding controller with unique time lag control. This controller lends itself to many types of control schemes. The five schemes listed above are common applications for the H6601 Time Lag Controller.

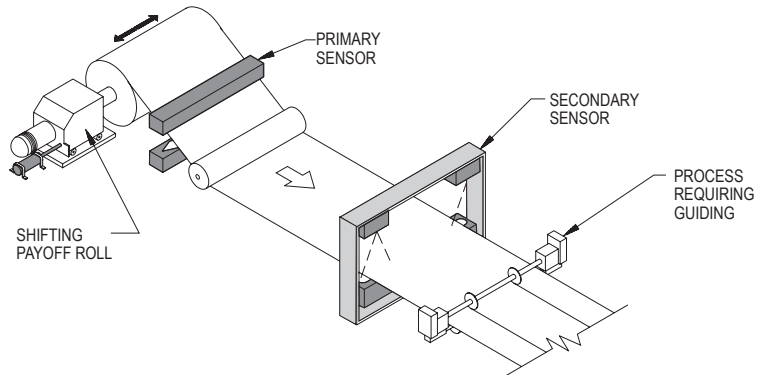
The microprocessor-based H6601 Electronic Controller provides all functions necessary to accommodate a wide range of guiding applications, while maintaining a simple, menu-driven, setup. It accepts signals from all of Fives North American's detectors: edge guide, center-guide, ultrasonic, and roll center, plus most off-the-shelf transducers. Guide point offset can be added using either the analog model H6220B, or the H6229 Digital Offset. Transport distance is measured using either a standard encoder or proximity switch (pulsed) input. AC inputs are provided for the user to remotely select modes of operation.

TYPICAL APPLICATIONS

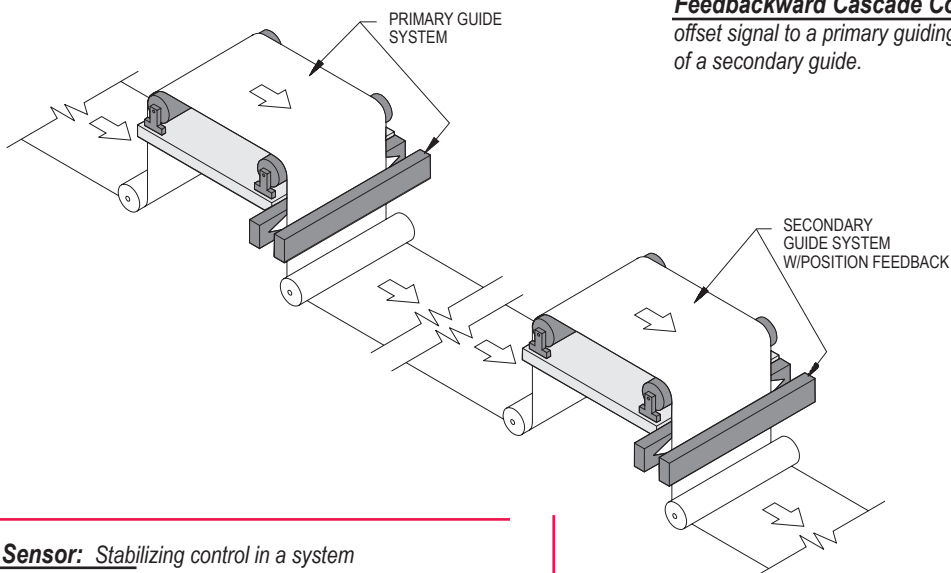
Steering Guide: Stabilize control of certain steering guides by adding time delay to allow reaction to the guide movement. Steering guides with unique application constraints require this control.



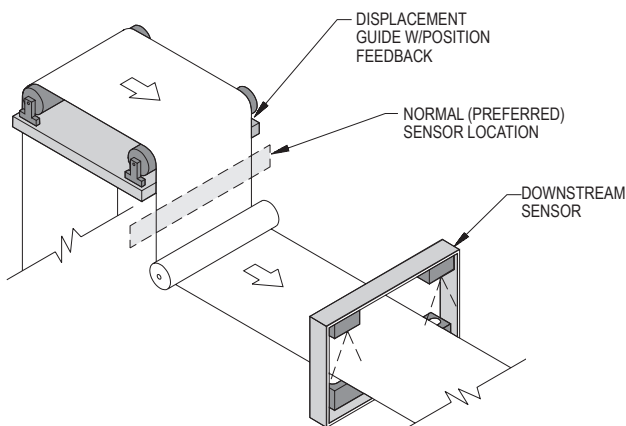
Camber (Lateral) Compensation: Guide the material into a machine process by providing automatic guide point offset into a primary guiding system.



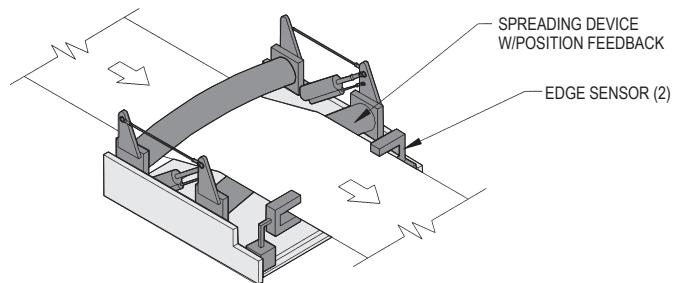
Feedbackward Cascade Control: Provide a control point offset signal to a primary guiding system based on the position of a secondary guide.



Downstream Sensor: Stabilizing control in a system where the sensor location causes time lag from the actuation location.



Fabric Spreading: Stabilizing an automatic spreading device by adding incremental actuation which is time delayed.



NOTE: Time lag in a control loop compromises system performance. Time lag is often the result of deviation from normal practices; usually due to space or location constraints. For best performance in these instances, system design should first attempt to eliminate time lag. Although optimum guiding cannot be achieved if time lag is present, the H6601 Time Lag Controller can often be successfully applied to minimize negative effects. Consult a Fives North American specialist for guidance in successful application of this product.

Fives North American...the Clear Choice for Your Web and Strip Guiding Needs.

Offering an extensive array of products, capabilities, and experience, and a dedication to providing services to you for all phases of your guiding requirements, Fives North American is a company you can depend on for the right system for your specific needs.

- **Process Analysis**
- **Application Experience**
- **System Engineering**
- **Extensive Array of Products**
- **Quality Manufacturing**
- **Start-Up Assistance**
- **Parts and Service**
- **In Plant Training**

Guiding Experts Where and When You Need Them.

Fives North American supports your guiding needs by providing experienced application specialists that are readily available to you. Fives North American's direct sales force are among the most knowledgeable in the industry. They have the ability to diagnose individual situations and offer the optimum guiding solution. Working together with an extensive home office engineering staff, our field office locations across the U.S., Canada, and our international agents are ready to provide a quick response to your needs. Call us and we'll prove it to you!



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