



## Dual Sensor Assembly

The Exline Dual Sensor Assembly provides compact and practical protection for piston pin bushings, cylinders and pistons. This assembly incorporates two devices as a single unit. One senses high piston skirt temperature and the other detects any wear resulting in piston overtravel.

Because the lower portion of the piston skirt does not readily transfer heat to the cylinder wall and therefore runs at a more consistent operating temperature, the temperature sensor is installed on the inside diameter of the piston skirt. Any excessive temperature rise of the piston skirt will melt a fuse-metal alloy, permitting a spring-loaded plunger to extend toward the inside of the piston. This plunger then strikes a break-off dowel, creating a pressure drop in the pneumatic control system that can be used to shut down the equipment or sound an alarm. Excessive downward travel of the piston will also create a pressure drop by striking a separate break-off dowel located on the same header of this “two-in-one” device.

- Total Reliability
- No Maintenance
- No Calibration
- No Deterioration
- Reusable

### Part Numbers

Part	Part No.
Aluminum Break-off*	#300109
Brass Break-off Dowel**	#300107

\*Dowel (2 required)

\*\*Available upon request. (2 required)

Part Number determined by customer requirements.

### How to Order

Specify make and model of engine and number of cylinders.

### Application

Protects Piston Pin Bushings, Cylinders and Pistons.

## Details of Installation

The Dual Sensor Assembly should be mounted at the bottom of the cylinder directly below the end of the piston pin. Mount the bracket at the bottom of cylinder and install header on bracket. Drill and tap hole in piston skirt to install striker sensor.\* The striker should be located directly above the break-off dowel adjusting screw. Plunger of striker should have 1/16" clearance from adjusting screw (shown in Illustration A). Clearance between piston and adjusting screw (shown in Illustration B) should be field adjusted to operating clearance. Install tubing to control system.

\*See Striker Sensor on page 5, for "Details of Installation" and "Available Fuse Collar Melting Temperatures" on page 4.

