SKF Lincoln piston detectors

For function monitoring of lubricant metering devices in automatic lubrication systems

The universal and bipolar piston detectors are position sensors that are screwed into the metering device together with the relevant pressure-resistant adapter. The sensors detect the piston by means of the closed adapter without coming into direct contact with it. They adjust themselves independently after several distribution strokes. Therefore, hydraulic pressure peaks do not act directly on the frontal sensor surface of the piston detectors.

Different adapters are available, depending on the distributor series.

The universal piston detector automatically detects the customer’s plug or cable assignment, 2-wire or 3-wire version (with cable break protection).

The bipolar piston detector is only available in a 2-wire version. The signal voltage can be applied to either pin 1 or pin 4, which means this sensor can be used for mobile applications such as vehicles or agricultural and construction machinery.

Thanks to their patented technology, these innovative piston detectors are the ideal solution for wind turbines, mining, the steel industry, pulp and paper mills, the food and beverage industry, machine tools, mobile applications and stationary railway applications, as well as other industries.

Advantages:
- More precise detection of the distributor piston than with previous piston detectors
- Can be used in lubrication systems with high operating pressures
- The adapter separates the lubricating medium from the sensor, thereby permitting replacement of the piston detector at the pressurised distributor as well
- Switching distance self-adjusting during operation
- Resistant to short-circuits and overloading
- Suitable for mounting on progressive metering devices
- The two new piston detectors replace all previous variants
- Efficient storage

Properties:
- Suitable for extreme temperatures (−40 to +85 °C, −40 to +185 °F)
- CE, UL, CSA and E1
- High IP protection rating, depending on the cable socket used: IP 65 to IP 69K
- LED display for distributor stroke
- Supply voltage: 10 to 36 V DC
### Order details

The piston detectors can be ordered separately, i.e. without adapter, O-ring and cable. A cable socket with M12x1 socket is also available (→ Table 1).

The piston detectors can also be ordered as kits with the appropriate distributor adapter and O-ring (→ Table 2).

Furthermore, the universal piston detectors for metering devices of the SSV, SSVL, SSVD, SSVDL, VS... series are available as kits with O-ring, adapter and adapter cable in various connections and cable lengths (→ Table 3).