LS60 Sensors
Catalog HY33-2373/US
Application
The LS60 sensor belongs to the family of accessories provided to complement electronic control systems. The LS60 is a solid state level dual axis level sensor for mobile hydraulic applications. Plastic components, internal contacts, and concentricity have been greatly enhanced over previous versions, resulting in superior trip accuracy and reliability. The height has been reduced, and O-ring seals have been added top and bottom to ensure hermeticity necessary to survive the harshest conditions. Custom X and Y trip angles can be created quickly and with minimal expense.

Properties
Reliability
The LS60 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses non-contact technology for trouble free operation. Months of rigorous product testing were conducted prior to final tooling to ensure the highest level of reliability under the most demanding conditions. 100% on-line automated trip angle and timing test equipment assures sensor accuracy. All electronics are tested under load prior to final assembly.

Installation
The LS60 is well designed for the mobile hydraulics industry. The standard top-mounted bubble level makes calibration easy, and the new mounting bracket offers additional mounting options. As with earlier LS models, a variety of terminations are available for the standard 12" long wires. Other wire lengths may be specified. Easy visual angle confirmations are possible via colored top rings.
## General
- **Weight**: 72 g
- **Temperature range**: -35°C to 85°C
- **Operating life**: 1,000,000 cycles
- **Operating angle**: 1-10° each axis
- **Independent linearity**: ±0.2° FS
- **Hysteresis**: ≥0.1°
- **Repeatability**: ≥0.1° at angle rotation to same position

## Environmental protection
- **ESD**: EN 61000-4-2 3 kV
- **Mechanical**
  - **Shock**: 1m drop
  - **Vibration**: 10 Gs
- **Climate**
  - **Sealing**: IP67
- **Chemical environment**
  - **Liquids (resistance)**: standard automotive

## Mechanical characteristics
- **Mounting**: Bracket
- **Wire length**: Configurable
- **Connector**: Configurable

## Electrical characteristics
- **Supply Voltage (Vs)**: 7-48 Vdc
- **Current supply**: 50 mA typical
- **Output current**: Max. 1.0 A
- **Time delay**: 0-10 seconds

## Ordering model number (part number will be assigned by Parker upon receipt of order)

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- **Normally open**: O
- **Normally closed**: C
- **Trip angle in 0.5° increments**: Example: 4.5 = 4.5°
- **Sourcing (+BAT)**: H
- **Sinking (GND)**: L
- **Wire length in feet**: Example: 02 = 2 feet
- **Time delay in 0.5 second increments**: Example: 2.5 = 2.5 seconds
- **Operating voltage**: __________
- **Connector type**: __________

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**WARNING - USER RESPONSIBILITY**

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.**

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**OFFER OF SALE**

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