









LS60 Sensors

Catalog MSG33-2373/US





Application

The LS60 sensor belongs to the family of accessories provided to complement electronic control systems. The LS60 is a legacy, solid state, dual axis level sensor for mobile hydraulic applications. Plastic components, internal contacts, and concentricity were greatly enhanced over previous versions, resulting in superior trip accuracy and reliability. The height was reduced, and O-ring seals were added top and bottom to ensure hermeticity necessary to survive the harshest conditions. Configured X and Y trip angles for each part can be determined by checking the model code.

At this point in the LS60 lifecycle, only current existing configurations are available. Contact your Parker representative.

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 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 mounting bracket offers additional mounting options.

A variety of terminations are available for the standard 12" long wires. Easy visual angle confirmations are possible via colored top rings.

Model code definitions (new part configurations are no longer available)

LS60	- /	1.1	<i>[</i>]./	//	
Normally open = O Normally closed = C					. W E
Trip angle in 0.5° increments					Ti
Example: $4.5 = 4.5^{\circ}$			(+BAT) = H (GND) = L		E

General

vveignt	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	<u>></u> 0.1°
Repeatability	≥0.1° at angle rotation

to same position

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 Number	Configuration Model Code
LS60-00653ECD	LS60-C2.0/4.0 H1.5 12/24
LS60-00657ECD	LS60-C2.0 H1.0 12/24
LS60-00673ECD	LS60-C3.0 H1.0 12/24
LS60-00679ECD	LS60-C4.5 H0.0 12/24
LS60-00682ECD	LS60-C4.5 H2.0 12/24
LS60-00684ECD	LS60-C4.0 H1.0 12/24
LS60-00702ECD	LS60-X5.0 H2.0 12/24
LS60-00707ECD	LS60-O2.5 LADJ 12/24
LS60-00721ECD	LS60-O3.0 H1.0 12/24
LS60-00733ECD	LS60-O4.5 L1.5 12/24
LS60-00737ECD	LS60-O4.5 L2.0 12/24
LS60-00744ECD	LS60-O3.0 L1.5 12/24
LS60-01231ECD	LS60-O2.0 L1.0 36
LS60-01240ECD	LS60-C2.0/4.0 H1.5 12/24
LS60-01241ECD	LS60-C3.0 H2.0 12/24
LS60-01258ECD	LS60-C1.5/4.0 H1.5 12/24
LS60-01272ECD	LS60 C4.0/2.0 H2.0 12/24
LS60-01303ECD	LS60-C2.0/3.0 H1.5 12/24
LS60-01519ECD	LS60-O3.0 L1.0 12/24
LS60-02002ECD	LS60-O1.5/3.5 L1.0 12/24
LS60-03027ECD	LS60-O4.5 L1.5 12/24
LS60-03052ECD	LS60-C1.5/3.0 H1.5 12/24
LS60-03065ECD	LS60-C1.5/3.0 H1.5 12/24
LS60-03067ECD	LS60-C1.5 L3.0 12/24 LS60-

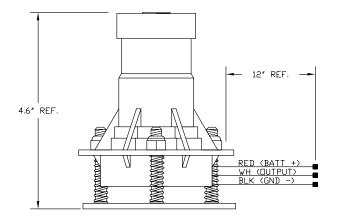
Nire length in feet Example: 02 = 2 feet

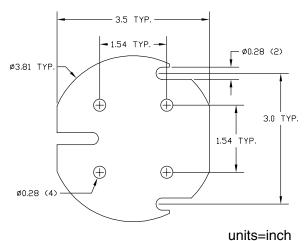
LS60-03071ECD

Time delay in 0.5 second increments Example: 2.5 = 2.5 seconds

O2.5/4.5 L1.5 12/24

Technical data





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



WARNING - USER RESPONSIBILITY

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