

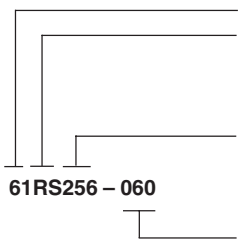
**Shock Resistance:** Test 1: 100g for 6 mS, half-sine wave with velocity change of 12.3 ft/s. Test 2: 100g for 6 mS, sawtooth wave with velocity change of 9.7 ft/s.

**Materials and Finishes**

**Bushing:** Aluminum  
**Code Housing:** Hiloy 610B  
**Shaft:** Stainless steel  
**Retaining Ring:** Stainless steel  
**Code Rotor and Aperture:** Chemically etched stainless steel/electroformed nickel

**Printed Circuit Board:** NEMA Grade FR-4. Five microinches minimum gold over 100 microinches minimum nickel over copper  
**Optical Barrier:** Polyphenylene sulfide, 94 V-0  
**Backplate:** Polyester  
**Header:** Phosphor bronze, 200 microinches tin over 50 microinches nickel (pin version only)  
**Infrared Emitter:** Gallium aluminum arsenide  
**Photo IC:** Planar silicon  
**Cable:** 26 AWG, stranded/tinned wire, PVC coated on .100 (2,54) centers (cable version only)

**ORDERING INFORMATION**



**Series**  
**Style:** K = Standard, 4-pin, high resolution  
 KS = Sealed, 4-pin, high resolution  
 R = Standard, 5-pin, high resolution  
 RS = Sealed, 5-pin, high resolution  
**Cycles:** per channel per revolution = 25, 32, 50, 64, 100, 128, 256

**Cable Termination:** 060 = 6.0in. Cable is terminated with Molex Connector P/N 14-56-3056.

Optical and Mechanical Encoders

**Available from your local Grayhill Distributor.** For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

**ACCESSORIES**

**Non-Turn Washer**

The Series 61 bushing is 3/8 inches in diameter and has a non-turn keyway to prevent rotation of the switch body when the panel is cut to fit. Another way to keep the switch from turning is to use a non-turn washer. The washer is cadmium-plated brass.  
 Part number: **12C1087-1**  
 Part number: **SHH694-11**, 302-2B stainless steel, no plating

**Shaft and Panel Seal**

For shaft and panel seal version, the shaft is sealed by an o-ring inside the bushing. The panel is sealed by a flat gasket .045" thick at the base of the bushing. The panel seals will increase the behind panel dimension by .020" to .040", when the switch is mounted. The panel seal is silicon rubber.

**DIMENSIONS** In inches (and millimeters)

