

Specialty Switches

GEMS Excels in Switches for Special Requirements

The products below are examples of the custom engineering GEMS can provide to meet specific application needs. These units are ideal for use in oils and water.

TH800
Series Temperature/
Level Switch



Level monitoring and temperature switch in a single unit. Intermediate in size; single-setting temperature sensor is in bottom of stem.

LS-38760 Series –
Cushioned Float



Cushioned float and switch for turbulent liquids or excessive vibration. Easily grounded. Ideal for tank trucks, construction equipment or mobile applications.

LS-270 Series –
Bracket Mounting
Slosh Shield



U.L. Recognized – File No. E45168

Small, lightweight, and extremely stable in nonstatic, highly contaminated liquids. Slosh shielding minimizes effects of turbulence and helps prevent interference by foreign material. Bracket-mounted to any convenient surface.

LEVEL SWITCHES – SINGLE POINT

Dimensions

| | TH800 Temperature/Level Switch | LS-38760 Series | LS-270 Series |
|-------------------------------|--------------------------------------|--------------------------------------|---|
| | <p>Wire diagram on page B-21</p> | | |
| Electrical Termination | 18 AWG, 24' L., Polymeric Lead Wires | 18 AWG, 36' L., Polymeric Lead Wires | 18/2 Cable, 6 ft. L., Neoprene with waterproof connection |

†L_s = Switch actuation level, nominal (based on a liquid specific gravity of 1.0).

LS-270 Series Note: Installed vertically with cable upward. Caution: Elastomer seals in the sensor and cable are subject to deterioration and aging, and therefore need to be checked regularly. Life expectancy of seals varies with application.

How To Order – Select Part Number based on specifications required.

| Series | Material | | | Min. Liq. Sp. Gr. | Operating Temperature | Pressure PSI, Max. | Switch ¹ | | Part Number |
|-------------------|-------------------|--------|---|-------------------|--|--------------------|---------------------------|------------------------------------|-------------|
| | Stem and Mounting | Float | Other Wetted | | | | Level SPST | Temperature ² | |
| TH800 Temp./Level | Brass | Buna N | Beryllium Copper, Hysol | .75 | Water: to 180°F (82°C) Oil: -40°F to +230°F (-40°C to +110°C) | 150 | 20 VA, N.O. | N.C., open on +150°F ±10°F, incr. | 57143 ⚡ |
| | | | | | | | | N.O., close on +150°F ±10°F, incr. | 57144 ⚡ |
| LS-38760 | Aluminum | Buna N | S.S., Hysol | .55 | -40°F to +180°F (-40°C to +82°C) | 150 | 20 VA, N.C. | — | 38760 |
| LS-270 | 316 S.S. | Buna N | Beryllium Copper, Copper Nickel, Polycarb. 304 S.S. | .55 | -40°F to +140°F (-40°C to +60°C) | 150 | 20 VA, N.O. | — | 43765 ⚡ |
| | | | | | | | 20 VA, N.C. | | 43760 ⚡ |
| | | | | | | | 50 VA ² , N.O. | | 43980 ⚡ |
| | | | | | | | 50 VA ² , N.C. | | 43982 ⚡ |

Notes:

- See "Electrical Data" on Page X-5 for more information.
- Switches are not U.L. Recognized or CSA Listed.
- See Page B-21 for thermostat ratings and wiring diagram. Other temperature settings are available; consult factory.