

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.

Dimensions

	TH800 Temperature/Level Switch	LS-38760 Series	LS-270 Series
	<p>27/32" (21.4 mm) 1/4" NPT 5/8" HEX (15.9 mm) 1-1/2" (38.1 mm) † 5-3/32" (129.4 mm) 4-1/4" (108 mm) 1-3/4" (44.5 mm) 1-1/4" DIA. (31.75 mm) Wire diagram on page B-21</p>	<p>1-1/16" (27.0 mm) 1/4" NPT FLOAT CUSHION 4-1/4" (108 mm) 3-3/16" (81.0 mm) 1-1/4" (31.8 mm) † 1-13/16" (46.1 mm) FLOAT CUSHION 1-7/8" DIA. (47.6 mm) 3/16" DIA. (4.7 mm)</p>	<p>2-1/2" (63.5 mm) 1-3/4" (44.5 mm) 9/32" DIA. (7.1 mm) 2 HOLES 3-3/16" (81 mm) 2-9/16" (65 mm) 1-3/8" ± 1/4" (34.9 mm) † SLOSH SHIELD CUT AWAY 2-19/32" DIA. (66 mm)</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 ³	
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.