

ML1S Temperature Switch

Bi-Metallic

Series ML1S

- ✦ Bi-Metallic Sensor
- ✦ Compact Design
- ✦ NEMA 4 & IP 65
- ✦ One Piece Design



ML1S Series temperature switches are economic, bi-metallic, factory pre-set temperature switches that complement both our new and traditional temperature switch lines. The ML1S features a one-piece, brass thermowell design, which houses a bi-metallic, SPST snap switch. This one piece, brass housing comes standard with 1/2" process and conduit connections is rated NEMA 4 and IP65 and is UL listed and CSA approved. These switches come to you factory set as single setting units with operating ranges to 300°F. Switching action is SPST, wired normally open or closed and rated for 15 amps @ 125 VAC, 10 amps @ 250 VAC. The one-piece design offers integrity against leaks vs. other welded two-piece designs. For low or high limit alarm, shut-off, or control, the ML1S is ideal for OEM applications when a compact, inexpensive temperature switch is required.



TR Automatyka Sp. z o.o.

ul. Lechicka 14
 02-156 Warszawa
 tel. +48 (22) 886 10 16, fax. +48 (22) 846 50 37
 NIP: 522-27-58-993
<http://www.trautomatyka.pl>
 e-mail: biuro@trautomatyka.pl

MLIS Temperature Switch

When Temperature Matters, Call Barksdale

For many years, Barksdale temperature switches have been switching, measuring and controlling critical processes throughout the world.

Protect Your Equipment with Barksdale

Barksdale temperature switches prevent damage to heavy industrial equipment by monitoring the temperature of engine fluids and protecting against them a overbads. Hydraulic power units are protected by controlling the temperature of fluids in systems in reservoirs.

In cold climates, Barksdale temperature switches control heating devices that prevent pipes, valves and fittings from freezing preventing expensive loss and downtime. Barksdale thermostats also control the temperature in process piping to maintain the proper flow of media.

Barksdale temperature switches can be used in a variety of applications:

- Hydraulic Power Units
- Combustion Engines
- Tanks and Reservoirs
- Gearboxes
- Pumps
- Compressors
- Machine Tools and Industrial Equipment
- Farm & Construction Machinery
- Process Equipment



Need Something Special?

If you have special product requirements, we can help. Barksdale specializes in custom design solutions to meet your needs. We have design engineers and technical specialists who are experts in solving your unique temperature problems. Our technology and resources are at your disposal.

MLIS Temperature Switch

Performance Characteristics

Accuracy See table
 Switch Rating 15A @ 125 Vac ; 10A @ 250 Vac
 Maximum Temperature 340°F
 Proof Pressure 500 psi
 Cycle Life 100,000 cycles
 Range 50°F - 300°F
 Warranty 1 year

Physical

Housing Material Brass
 Process Connection 1/2" NPT
 Electrical Connection 18" AWG PTFE free leads
 Switching Action SPST-NO or SPST-NC
 Conduit Connection 1/2" NPT
 Weight (lbs.) .15

Approvals

CE Qualified
 UL and CSA

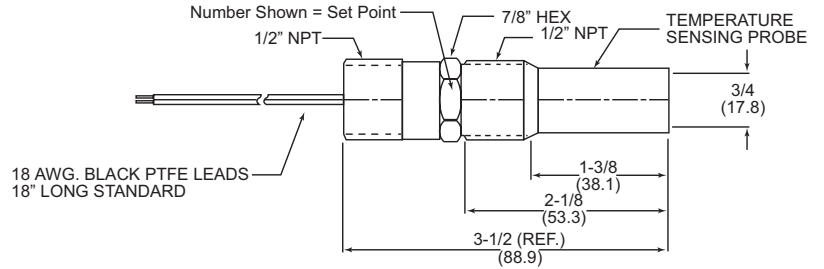
Environmental

NEMA 4, IP65

Optional Features

(Consult Factory)

- Dual setpoints available
- Optional electrical connections available
- Optional high temperature available to 446°F
- Consult factory for all options not listed



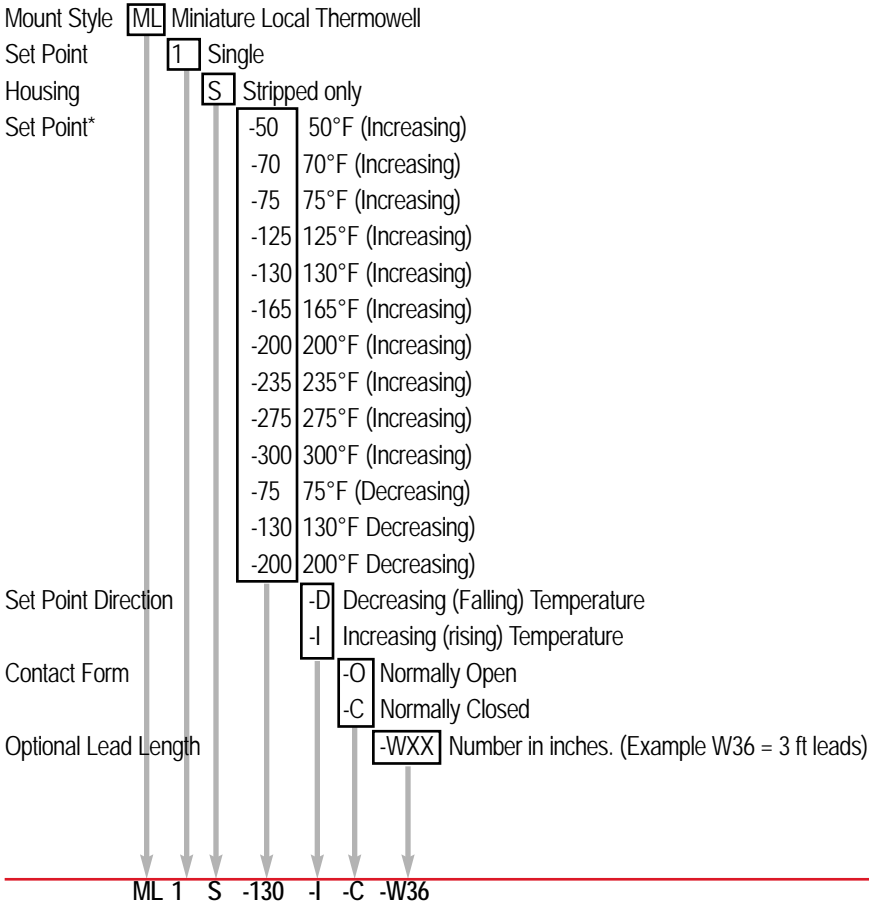
Catalog Number	Set Point	Accuracy	Differential (Fixed)
ML1S-50-I-C	50°F (Inc.)	± 10°F	27°F (15°C)
ML1S-70-I-C	70°F (Inc.)	± 10°F	27°F (15°C)
ML1S-75-I-C	75°F (Inc.)	± 10°F	27°F (15°C)
ML1S-125-I-C	125°F (Inc.)	± 10°F	18°F (10°C)
ML1S-130-I-C	130°F (Inc.)	± 10°F	18°F (10°C)
ML1S-165-I-C	165°F (Inc.)	± 10°F	18°F (10°C)
ML1S-200-I-C	200°F (Inc.)	± 10°F	18°F (10°C)
ML1S-235-I-C	235°F (Inc.)	± 10°F	18°F (10°C)
ML1S-275-I-C	275°F (Inc.)	± 10°F	27°F (15°C)
ML1S-300-I-C	300°F (Inc.)	± 13°F	36°F (20°C)
ML1S-75-D-C	75°F (Dec.)	± 10°F	27°F (15°C)
ML1S-130-D-C	130°F (Dec.)	± 10°F	18°F (10°C)
ML1S-200-D-C	200°F (Dec.)	± 10°F	18°F (10°C)

Consult Factory for ranges not listed.

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Example: ML1S-130-I-C-W36

* NOTE: Consult Factory for ranges not listed.

Minimum order quantity - 20 pieces for non-standard ranges.

Ranges specified in 5° increments -Example: -250 = 250°F



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