

NEW! Smartflow® Thinswitch® Liquid-Resistant Limit Switch

U.S. Patents 5,446,252
and 6,982,392



General Description

Smartflow® Thinswitch® Liquid-Resistant Limit Switch is designed to verify ejector plate return in areas where occasional water or oil spray is present. The Thinswitch helps prevent accidental mold close in injection molding applications by providing a position switch that is tied to the injection molding machine control. The liquid resistant switch uses the same mounting hole locations as the original Thinswitch.

The Thinswitch has been tested for reliability over 10 million cycles without failure. Two switches can be used in series for larger molds to ensure the ejector plate return, preventing costly mold damage.

Features and Benefits

- **Over 10 million cycle life**
- 175°F (79.4°C) standard temperature rating
- 250°F (121°C) high-temperature unit for higher temperature needs
- Adjustable actuation between .187" and .250" from the mold base
- 3/16" thick design fits snugly behind the ejector plate between the rest buttons
- Stripped and tinned 6 ft. wire leads
- Mounting screws and wire clips included

NOTE: Premature spring and switch failure may result by adjusting the operating point more than .020" (.5mm) before the end of the ejector plate stroke.

T-222-LR 175°F (79.4°C) operating temperature
HT-291-LR 250°F (121°C) operating temperature

SPECIFICATIONS

Part Number/Operating Temperature: T-222-LR Standard Model, 175°F max. (79.4°C max.)
HT-291-LR High Temp Model, 250° max. (121°C max.)

Switching: SPDT

Electrical: 250VAC – 5 amps resistive, 4 amps inductive (max)
28VDC (sea level) – 5 amps resistive, 4 amps inductive (max)

MATERIALS

Body: Fiberglass-reinforced nylon

Dome: Polyurethane

Back Cover: Polyester Film

Wire Leads: 22ga stranded, 3-conductor, shielded cable, 6 ft. (18m) long, ends stripped and tinned

RATED CURRENT (RESISTIVE) VS. OPERATING STEEL TEMPERATURE					
T-222-LR			HT-291-LR		
AMPS	°F	°C	AMPS	°F	°C
5.0	85	29.4	5.0	100	37.7
4.0	120	49.0	4.5	155	68.3
3.0	155	68.3	4.0	210	98.8
2.0	175	79.4	3.5	250	121.1

The Thinswitch® Limit Switch is designed for use in very low power mold protection control circuits. It is not intended to switch heavy loads in power applications.

