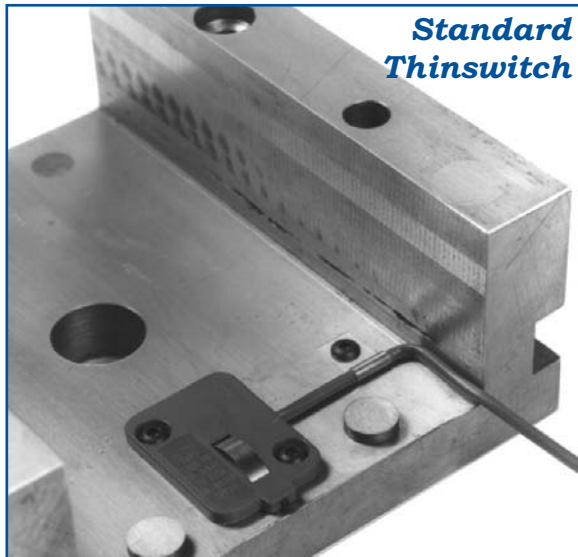




THINSWITCH® LIMIT SWITCH



**Standard
Thinswitch**

**NEW!
Liquid-Resistant
Thinswitch**



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

General Description

Smartflow® Thinswitch® Limit Switch is specially designed to verify ejector plate return before permitting the mold to close in injection molding machines. This small switch is thin enough to fit inside the ejector housing. It can also be used for core slides, or anyplace space is limited. A new Liquid-Resistant housing style provides longer switch life where occasional water or oil spray is present.

The Thinswitch® Limit Switch 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

- **NEW! Liquid-Resistant Housing Option** protects switch from occasional water or oil spray.
- **Over 10 million cycle life** provides long dependable service.
- **175°F (79.4°C) standard temperature rating** allows installation into most molding applications.
- **250°F (121°C) high temperature unit** is available for higher temperature needs.
- **Adjustable operating point** allows actuation between .187" and .250" from the base.
- **In stock** to provide same-day delivery in most cases.
- **3/16" thick** design fits snugly behind the ejector plate in the space provided by the rest buttons.
- **Stripped and tinned 6 ft. wire leads** make the switch ready to install without modification.

Specifications

Electrical	
250VAC	5 Amps resistive 4 Amps inductive
28VDC (sea level).....	5 Amps resistive 4 Amps inductive

See chart below for temperature effects on maximum current rating

Operating Temperature	
Standard Model T-222	175°F max. (79.4°C max.)
High Temp Model HT-291	250°F max. (121°C max.)
Switching.....	SPDT

Rated Current vs. Steel Temperature					
T-222			HT-291		
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.

Materials

Body	Fiberglass-reinforced nylon
Spring	Stainless Steel
Back Cover	Polyester film
Wire Leads	22ga stranded, 3-conductor, shielded cable, 6 ft. (1.8m) long, ends stripped and tinned



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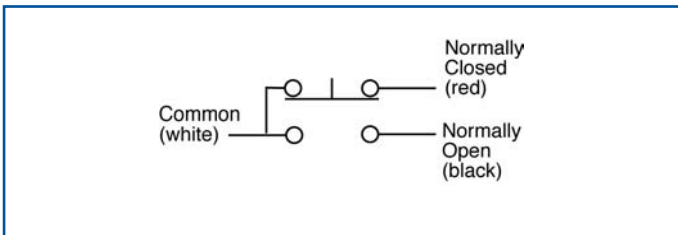
THINSWITCH® LIMIT SWITCH

Model Number

Housing		Temperature Rating
Standard	Liquid-Resistant	
T-222	T-222-LR	Standard 175°F / 79.4°C maximum
HT-291	HT-291-LR	High Temperature 250°F / 121°C maximum

Thinswitch® Limit Switches are in stock and ready for same-day shipment.

Wiring Diagram

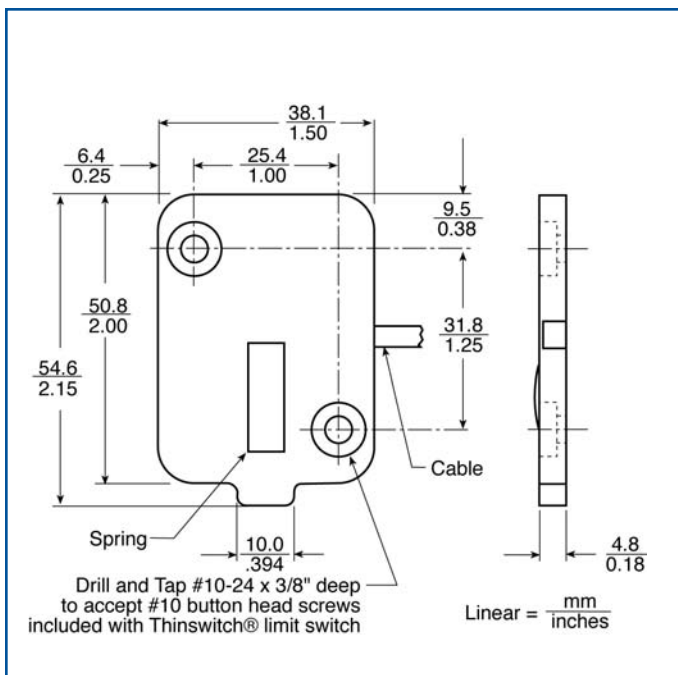


Parts Included

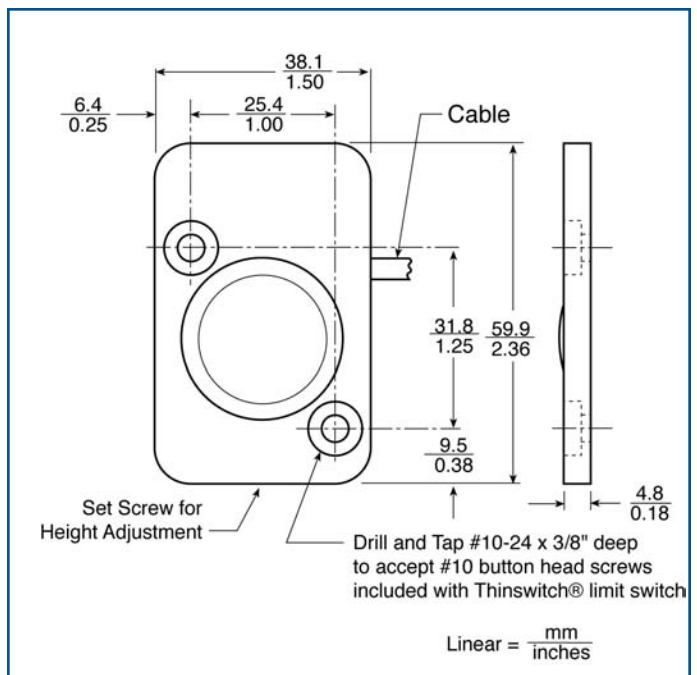
- 1 Thinswitch Limit Switch
- 1 Allen wrench (for height adjustment)
- 4 #10-24 button head screws
- 2 Wire clamps
- 1 Instruction sheet

Dimensions

Standard Housing



Liquid-Resistant Housing



Two and Three-Dimensional part files are available for download from our web site at www.smartflow-usa.com.



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