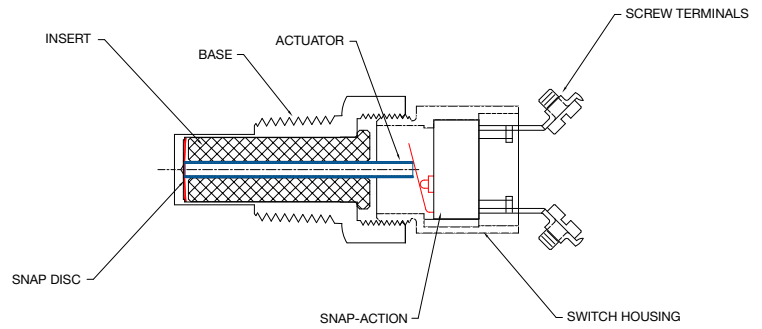
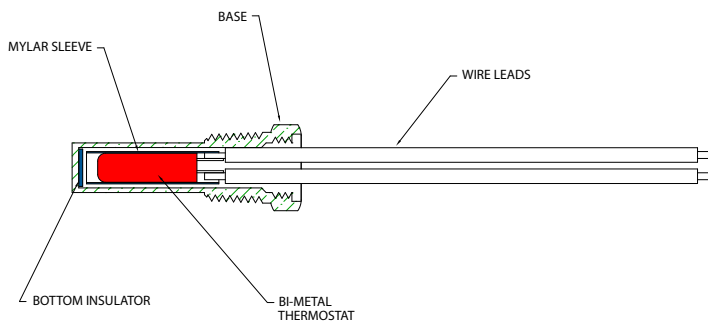


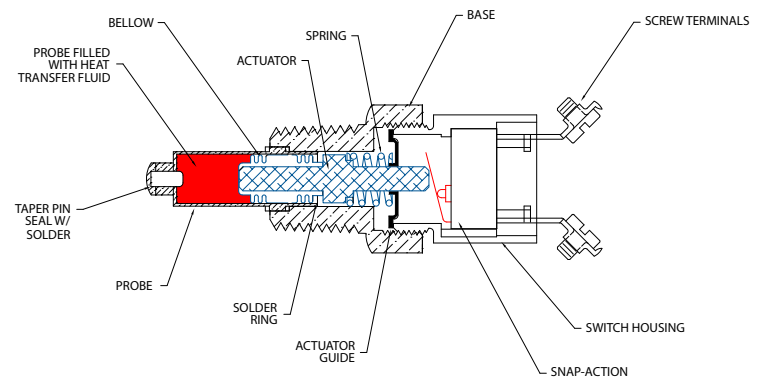
TEMPERATURE SWITCHES



SNAP DISC THERMOSTAT DESIGN



BI-METAL THERMOSTAT DESIGN



BELLOWS THERMOSTAT DESIGN

- Models TT, TD, TM, and HT
- TT – Bi-metal immersion temperature switch for low voltage/low current applications
- TD – Snap disc design for high reliability with shock and vibration
- TM and HT – Bellows design for high reliability with shock and vibration
- Available in a wide range of configurations
- NEMA 4 and 13 available
- 100% tested for accuracy

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TEMPERATURE SWITCHES

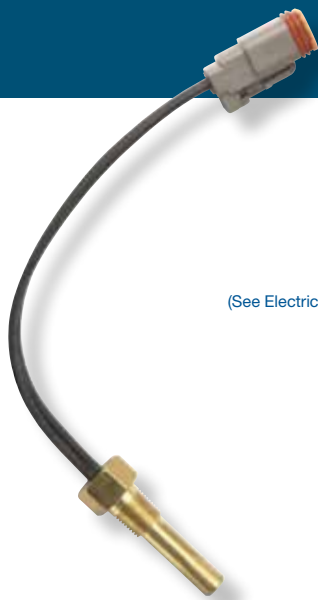


27	TT	Temperature Switch
28	TD	Temperature Switch
29	TM	Temperature Switch
30	HT	Temperature Switch
31	TW	Temperature Switch
32		Temperature Switch Media Connection Designations
34		Temperature Switch Optional Configurations
35		Temperature Switch Application Worksheet

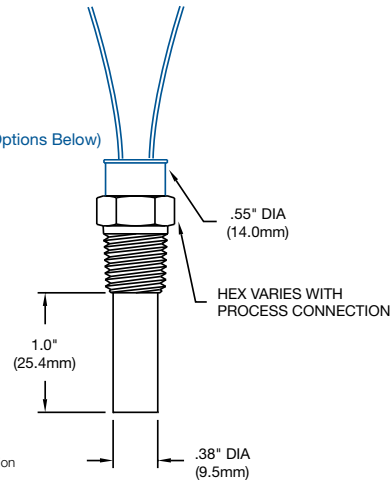
*

RESOURCES

7		Basic Electrical Connection Options
58		Diaphragm Compatibility
59		Conversion Tables
60		Glossary of Terms



(See Electrical Options Below)



Shown with PD electrical option

UL **CE** **RoHS**

Features

- Bi-metal immersion temperature switch
- Factory preset temperature
- Direct action contacts/minimum hysteresis
- Gold diffused, fine silver contacts
- Available in a wide range of configurations
- Economical and compact
- NEMA 4, 13

Operating Specifications

Set Point Range	40° — 300°F	(4° — 149°C)
Set Point Tolerance	±5°F	(2.8°C)
Maximum Temperature	325°F	(163°C)
Current Rating	3 A @ 240 VAC	2 A @ 24 VDC (Resistive)
Probe Length	1"	
Media Connection	Standard: Brass (<i>Optional: 303 SS, 316 SS</i>)	
Circuit Form	SPST-NO or SPST-NC	
Electrical Connection	See Order Chart Below for Options	
Maximum External Pressure	5000 PSI	
Unit Weight	.09 lbs	
Installation Torque	15 ft lbs	
	Smaller than 3/8" NPT Male = 5 — 10 ft lbs	

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 to create your own custom CAD file

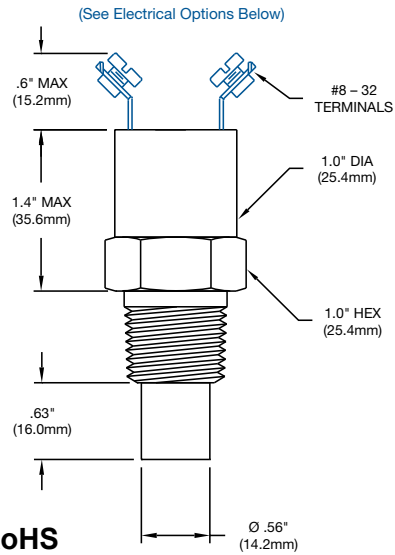
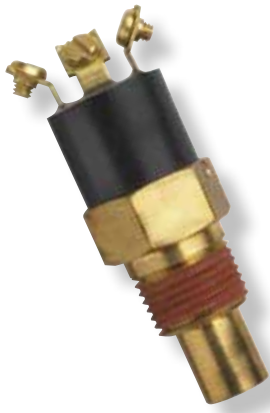
How to Order (Example: Part Number: **TT - D3A - 100R / WL** *)

TT		-		D	3	A	-		1	0	0	R	/	WL	*
Probe Length		Media Connection		Circuit Form		Fixed Set Point		Set Point Direction		Electrical Options					
D	1/2"	1	1/2" NPT Male	A	SPST-NO	40°F — 300°F		R	Rising	WL	Wire Leads 6"				
E	3/4"	2	3/8" NPT Male	B	SPST-NC	(5° Increments)		F	Falling	QC	1/4" Spade Connection				
F	1"	3	1/4" NPT Male							WP	Weather Pack				
H	1-1/2"	5	3/4" SAE O-Ring (-8)							MP	Metri-Pack				
J	2"	6	M16 x 1.5							GG	Internal Ground				
		13	1/4" NPT (316SS)												* Defaults to Screw Terminals
		35	M12 x 1.5												
		46	M14 x 1.25												

For more [media connections](#), see pages 32-33.

For all available [optional configurations](#), see page 34.

For more [electrical connections](#), see page 7.



UL US CE RoHS

Features

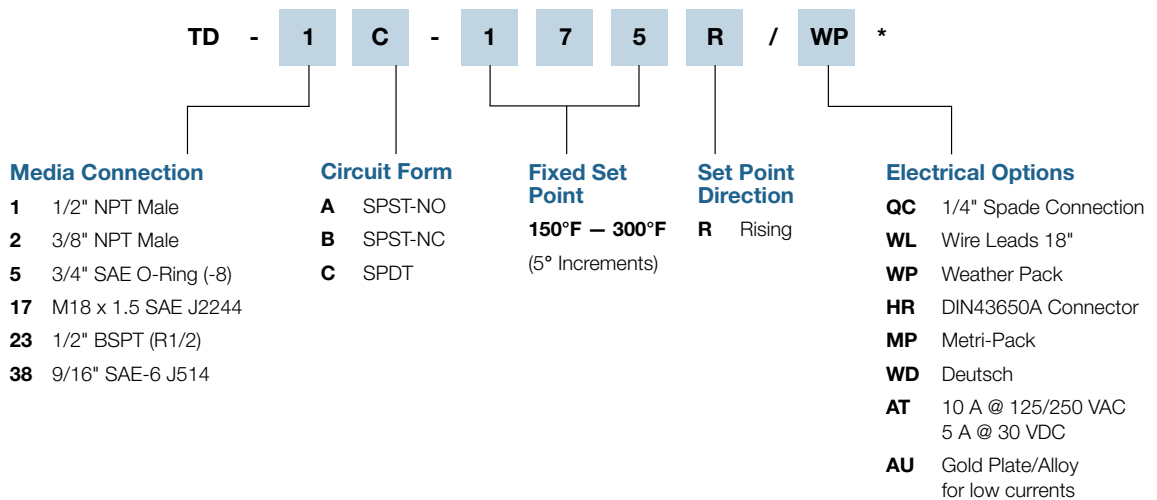
- Utilizes snap disc approach to sense temperature
- High-quality snap-action switch
- Factory preset
- Shock and vibration resistant
- Available in a wide range of configurations
- Economical
- NEMA 4, 13

Operating Specifications

Set Point Range	150° — 300°F	(65° — 149°C)
Set Point Tolerance	±5°F	(2.8°C)
Maximum Operating Temperature	325°F	(163°C)
Differential	8 — 16°F	
Current Rating	5 A @ 250 VAC	5 A @ 30 VDC (Resistive)
Media Connection	Standard: Brass (<i>Optional: 303 SS, 316 SS</i>)	
Circuit Form	SPST-NO, SPST-NC or SPDT	
Electrical Connection	See Order Chart Below for Options	
Maximum External Pressure	2500 PSI	
Unit Weight	.21 lbs	
Installation Torque	15 ft lbs	
	Smaller than 3/8" NPT Male = 5 — 10 ft lbs	

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 to create your own custom CAD file

How to Order (Example: Part Number: **TD - 1C - 175R / WP**)

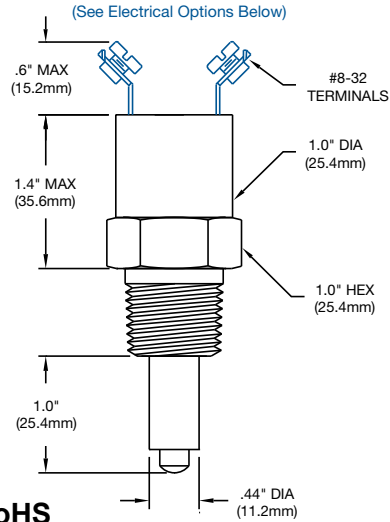


* Defaults to Screw Terminals

For more [media connections](#), see pages 32-33.

For all available [optional configurations](#), see page 34.

For more [electrical connections](#), see page 7.



UL US CE RoHS

Features

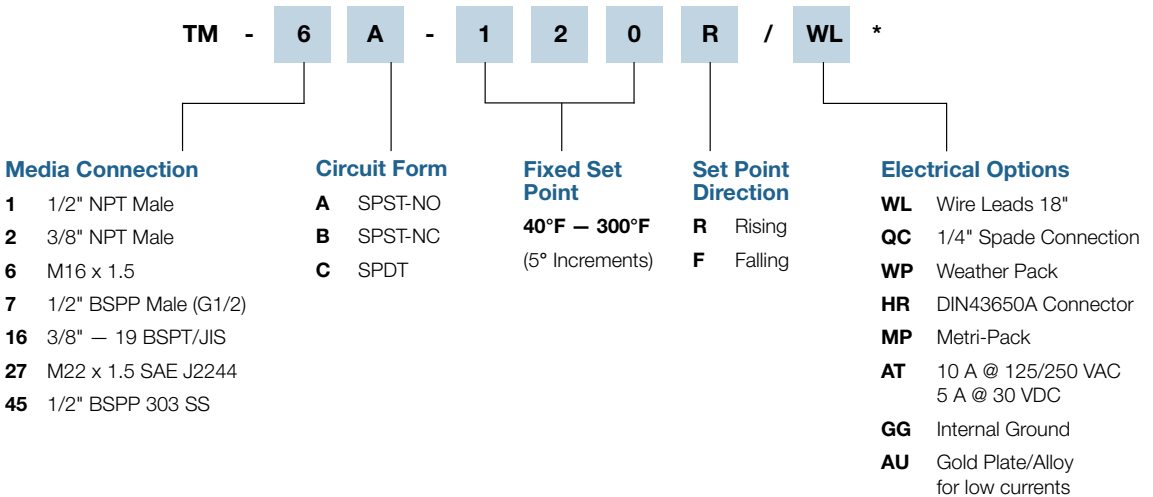
- Utilizes bellows mechanism to sense temperature
- High-quality snap-action switch
- Factory preset
- Shock and vibration resistant
- Available in a wide range of configurations
- NEMA 4, 13

Operating Specifications

Set Point Range	40° — 300°F	(4° — 149°C)
Set Point Tolerance	±5°F	(2.8°C)
Maximum Operating Temperature Differential	100°F above set point (325°F max)	
Current Rating	5 A @ 250 VAC	5 A @ 30 VDC (Resistive)
Media Connection	Standard: Brass (<i>Optional: 303 SS, 316 SS</i>)	
Circuit Form	SPST-NO, SPST-NC or SPDT	
Electrical Connection	See Order Chart Below for Options	
Maximum External Pressure	500 PSI	
Unit Weight	.19 lbs	
Installation Torque	15 ft lbs	
	Smaller than 3/8" NPT Male = 5 — 10 ft lbs	

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nasonptc.com/configure
 to create your own custom CAD file

How to Order (Example: Part Number: **TM - 6A - 120R / WL** *)

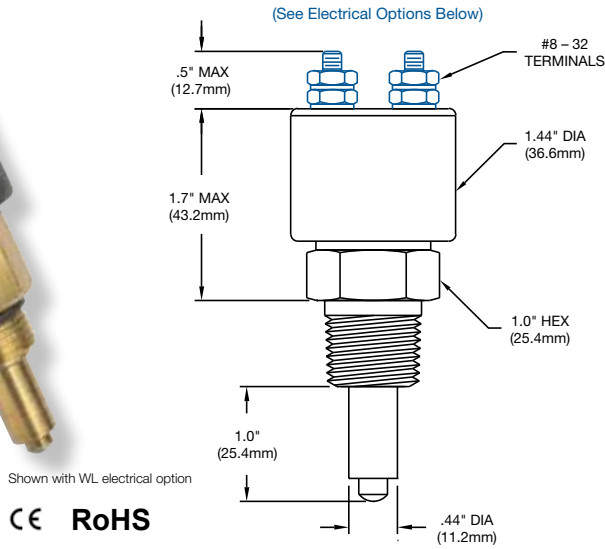


* Defaults to Screw Terminals

For more [media connections](#), see pages 32-33.

For all available [optional configurations](#), see page 34.

For more [electrical connections](#), see page 7.



Shown with WL electrical option
CE RoHS

Features

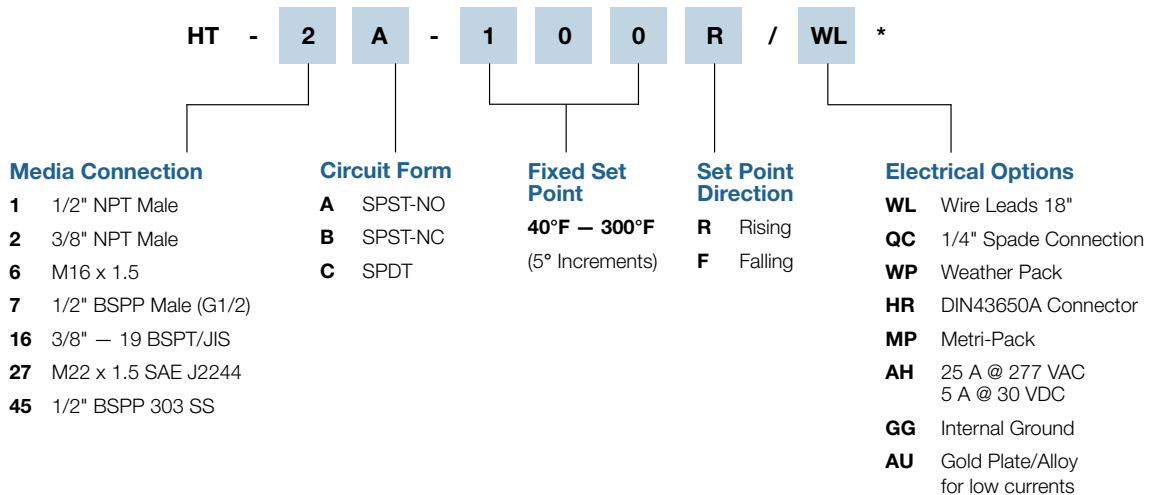
- Utilizes bellows mechanism to sense temperature
- High-quality snap-action switch
- Factory preset
- Shock and vibration resistant
- Available in a wide range of configurations
- NEMA 4, 13

Operating Specifications

Set Point Range	40° — 300°F	(4° — 149°C)
Set Point Tolerance	±5°F	(2.8°C)
Maximum Operating Temperature Differential	100°F above set point (325°F max)	
Current Rating	10 A @ 125/250 VAC	5 A @ 30 VDC
Media Connection	Standard: Brass (<i>Optional: 303 SS, 316 SS</i>)	
Circuit Form	SPST-NO, SPST-NC or SPDT	
Electrical Connection	See Order Chart Below for Options	
Maximum External Pressure	500 PSI	
Unit Weight	.23 lbs	
Installation Torque	15 ft lbs	
	Smaller than 3/8" NPT Male = 5 — 10 ft lbs	

CHECK OUT
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 to create your own custom CAD file

How to Order (Example: Part Number: HT - 2A - 100R / WL)

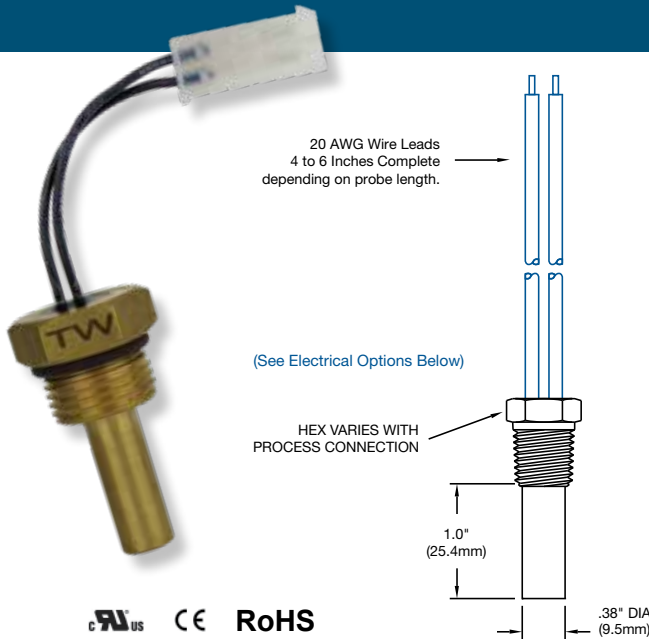


* Defaults to Screw Terminals

For more **media connections**, see pages 32-33.

For all available **optional configurations**, see page 34.

For more **electrical connections**, see page 7.



Features

- Snap action immersion temperature switch
- Factory preset temperature
- Hysteresis built in
- Available in a wide range of configurations
- Economical and compact
- NEMA 4, 13

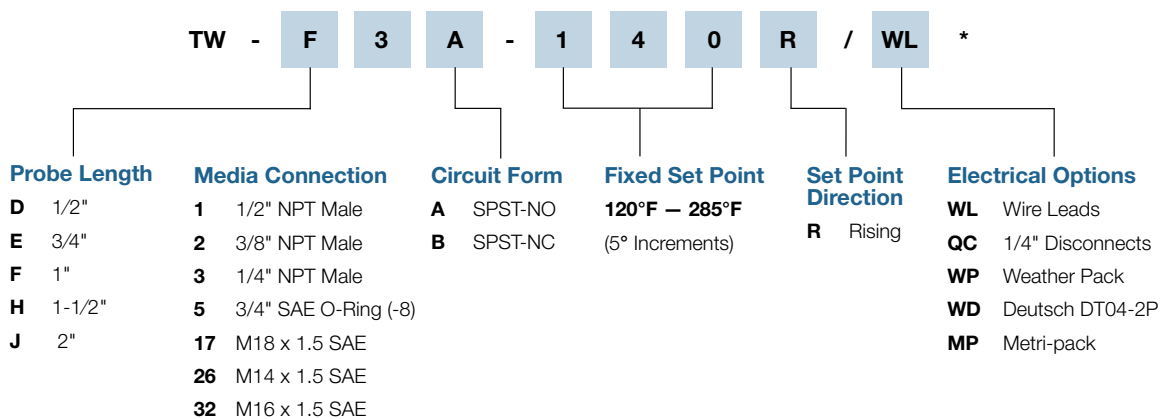
UL US CE RoHS

Operating Specifications

Set Point Range	120° – 285°F	(50° – 140°C)
Set Point Tolerance	±5°F	(2.8°C)
Maximum Temperature	163°F	(325°C)
Current Rating	10 A @ 120 VAC	5 A @ 240 VDC 4 A @ 12VDC
Differential	30%C of the set point (<i>nominal</i>)	
Cycle Life	10,000 cycles (<i>Depending on amp draw</i>)	
Probe Length	1.0" standard	
Media Connection	Standard: Brass (<i>Optional: 303 SS, 316 SS</i>)	
Circuit Form	Normally close or normally open	
Electrical Connection	Wire leads standard - See options below	
Maximum External Pressure	5000 PSI	

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 to create your own custom CAD file

How to Order (Example: Part Number: **TW - F3A - 140R / WL** *)



For more [media connections](#), see pages 32-33.

For all available [optional configurations](#), see page 34.

For more [electrical connections](#), see page 7.

Temperature Switches

Option	Base Thread Size*	TD	TM/HT	TT Model Probe Code					
				D 1/2" Probe	E 3/4" Probe	F 1" Probe	G 1-1/4" Probe	H 1-1/2" Probe	J 2" Probe
1	1/2 NPT Male	•	•	•	•	•	•	•	•
2	3/8 NPT Male	•	•	•	•	•		•	•
3	1/4 NPT Male			•	•	•		•	•
4	3/8 NPT (1PC)		•						
5	3/4 — 16 SAE O-Ring (-8) J514	•	•	•	•	•		•	•
6	M16 x 1.5 NON SAE		•	•	•	•			•
7	1/2 BSPP (G1/2)	•	•		•				•
8	1/2 NPT (1PC)		•						
9	3/8 NPT (Short) NON SAE		•						
10	M14 x 1.5 (Nickel Plated) NON SAE				•				
11	M14 x 1.5 NON SAE				•	•			
12	1/2 NPT (Nickel Plated)		•			•	•		
13	1/4 NPT (316SS)			•	•	•			
14	1/2 BSPP Extended		•						
15	3/4 — 16 SAE O-Ring (-8) Short J514		•						
16	3/8 — 19 BSPT (R3/8)	•	•	•			•		
17	M18 x 1.5 SAE J2244/3 O-Ring	•	•	•	•	•			
18	1/4 NPT (Nickel Plated)			•	•				
19	1/2 NPT (316SS-1PC)		•						
20	1/2 NPT (Very Short)		•						
21	3/8 NPT (Very Short)		•						
22	M16 x 1.5 45° Flare				•				
23	1/2 BSPT (R1/2)	•	•			•			
24	1/2 NPT (316SS)					•			
25	3/8 NPT (Nickel Plated) 1PC		•						
26	M14 x 1.5 SAE J2244/3 O-Ring			•	•	•			
27	M22 x 1.5 SAE J2244/3 O-Ring	•	•			•			
28	1/4 — 19 BSPT (R1/4)				•				
29	3/8 — 19 BSPP (G3/8)				•			•	

*Call Nason at 800.229.4955 if you don't see the media connection that fits your application. **Note:** Consult factory for materials and stock.

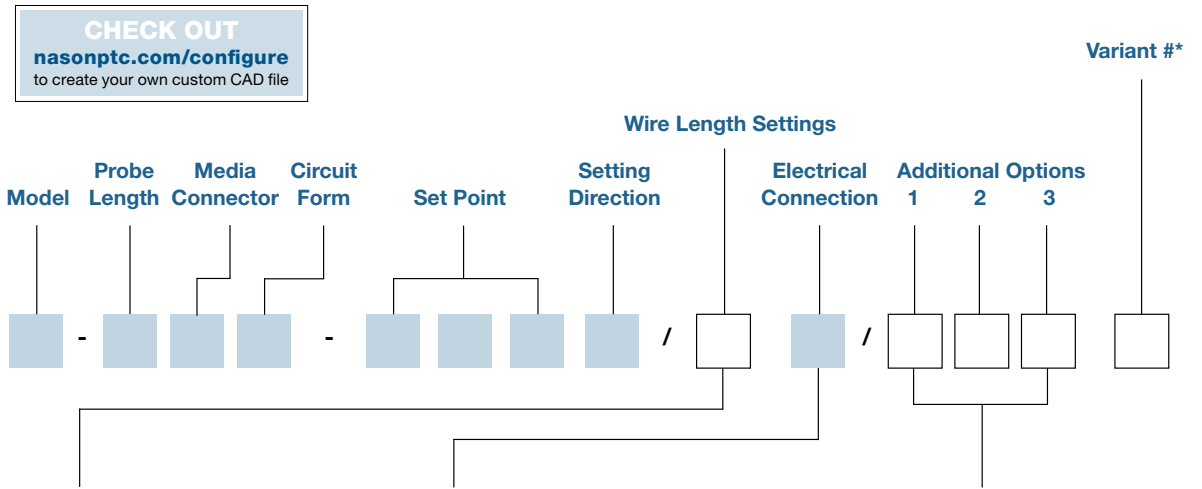
Temperature Switches

Option	Base Thread Size*	TD	TM/HT	TT Model Probe Code					
				D 1/2" Probe	E 3/4" Probe	F 1" Probe	G 1-1/4" Probe	H 1-1/2" Probe	J 2" Probe
30	3/8 NPT (316SS)			•	•	•			
31	3/4 — 16 UNF (304 SS)		•						
32	M16 x 1.5 (SAE) J2244/3								
33	5/8 — 18 SAE J513 45° Flare			•	•				
34	1/2 NPT (Short) Male		•						
35	M12 x 1.5 SAE J2244/3			•		•			
36	3/4 — 16 SAE O-Ring (Nickel Plated)								
37	M14 x 1.5 Taper Thread								
38	9/16 — 18 SAE J514 O-Ring (-6)	•		•	•	•	•	•	•
39	M16 x 2.0			•					
40	1/2 — 20 UNF SAE J514 O-Ring (-5)			•		•			
41	3/8 — 24 SAE J514 O-Ring (-3)			•					
42	1/8 NPT Male			•		•			
43	1/4 — 19 BSPP (G1/4)			•		•			
44	M16 x 1.5 303 SS					•			
45	1/2 BSPP 303 SS (G1/2)	•	•						
46	M14 x 1.25					•			
47	M16 x 1.5 45° Flare			•		•			
48	7/16 — 20 SAE J514 O-Ring (-4)			•		•			
49	1 1/16 — 12 SAE J514 O-Ring (-12)	•		•					
50	1/8 — 28 BSPT (R1/8)			•					
51	M20X 1.5 Taper								
52	3/8 NPT 303 SS Male								
53	M16 X 1.5 For Washer			•	•	•		•	•
54	M10 X 1.5								
55	1/8 — 28 BSPP (G 1/8)			•					
56	M12 x 1.5 For Washer			•					
57	3/8 — 19 BSPP Washer (G3/8)			•					
58	1/4 — 19 BSPP (G1/4) 316 SS					•			
59	7/8 — 14 SAE J514 O-Ring (-10)		•						
60	3/4 — 16 SAE J514 O-Ring (-8)		•						
61	M10 x 1.0						•		
62	3/4 — 16 for Washer Seal			•					

*Call Nason at **800.229.4955** if you don't see the media connection that fits your application. **Note:** Consult factory for materials and stock.

Temperature Switch Part Number Configuration

(Complete open boxes only. Shaded boxes should have been previously completed on individual switch pages.)



Wire Length Settings

- 1** 3" Wire Length
- 2** 6" Wire Length
- 3** 12" Wire Length
- 4** 18" Wire Length
- 5** 24" Wire Length
- 6** 36" Wire Length
- 7** 48" Wire Length
- 8** 60" Wire Length
- 9** Special Wire Length

Electrical Connection

- HF** DIN43650A 1/2" Conduit (Plug & Receptacle)
- HH** DIN43650A (Plug Only)
- HR** DIN43650A Strain Relief (Plug & Receptacle)
- HP** 9.4mm DIN (Plug Only)
- HM** 9.4mm DIN (Plug & Receptacle)
- MP** Metri-Pack Female 280 Series Sealed (Nason Standard)
- NP** Metri-Pack Male 280 Series Sealed
- CP** Metri-Pack Female 150 Series Sealed
- DP** Metri-Pack Male 150 Series Sealed
- PP** Boot (Military Connector)
- QC** 1/4" Male Spade Quick Connect
- WL** Wire Leads
- WP** Weather Pack (Female)
- TP** Weather Pack (Male)
- EL** 1/2" NPT Male Conduit
- EF** 1/2" NPT Female Conduit
- WD** Deutsch Receptacle (DT04)
- PD** Deutsch Plug (DT06)
- HL** Lighted DIN (Plug & Receptacle)
- ES** M12 - 4PIN
- CL** Sheathed 18 AWG Primaries
- SL** SJO Cable

Additional Options

- 1. Contacts****
- AT** 10 A @ 125/250 VAC
5 A @ 30 VDC
- AU** Gold Plate/Alloy (for low currents)
- AH** 25 A @ 277 VAC
5 A @ 30 VDC
- 2. Ground**
- GG** Internal Ground
- 3. Other**
- VL** Convolute (for wire leads)

* Variant # identifies this configuration as unique to a specific customer or application.

** Ask about our new environmentally sealed snap-action switch.

Temperature Switches

So we can better meet your application needs, please take a moment to fill out this operation specifications form. Nason will provide a sample to your specifications.

1 Media: _____

2 Set Point: Rising _____ (°F or °C) Falling _____ (°F or °C)

3 Differential: Yes No

4 Circuit Form: SPST-NO SPST-NC SPDT

5 Circuit: Electrical AC _____ V DC _____ V

Load (Amps) _____ Resistive Inductive Inrush _____

6 Pressure: System (Normal) _____ (Maximum) _____

7 Temperature: System (Normal) _____ (Maximum) _____ (Minimum) _____

Ambient (Normal) _____ (Maximum) _____ (Minimum) _____

8 Media Connection: _____

9 Electrical Connection: _____

10 Cycles: _____ per hour Other (describe): _____

11 Other Special Requirements (attach separate sheet if necessary): _____

12 System: New Design Redesign

13 Application: What will switch control? (Attach circuit diagrams if available) _____

14 Prototype(s) Required by (Date): _____

15 Estimated Annual Usage: _____ Target Net Price: _____

Firm: _____

Address: _____

Project Number or Name: _____

Name & Title: _____ Phone: _____

Email Address: _____

ELECTRICAL CONNECTION OPTIONS

MORE THAN THE COMPETITION

Nason knows that your designs are used in all types of applications imaginable, so we want to make sure you have a choice of how you configure electrical connections. We offer you a wide and growing selection of connections, and if you want something else, just ask our design engineers for it.



Screw
Terminals
#8 – 32

HF	HH	HR	HP	HM	MP	NP	
DIN43650A 1/2" Conduit <i>(Plug & Receptacle)</i> IP65	DIN43650A <i>(Plug Only)</i>	DIN43650A Strain Relief <i>(Plug & Receptacle)</i> IP67	9.4mm DIN <i>(Plug Only)</i>	9.4mm DIN <i>(Plug & Receptacle)</i> IP65	Metri-Pack Female 280 Series Sealed IP66	Metri-Pack Male 280 Series Sealed IP66	
CP	DP	PP	QC	WL	WP	TP	
Metri-Pack Female 150 Series Sealed IP66	Metri-Pack Male 150 Series Sealed IP66	Boot <i>(Military Connector)</i>	1/4" Male Spade Quick Connect	Wire Leads	Weather Pack <i>(Female)</i> IP66	Weather Pack <i>(Male)</i> IP66	
EL	EF	WD	PD	ES	CL	SL	VL
1/2" NPT Male Conduit	1/2" NPT Female Conduit	Deutsch Receptacle IP67	Deutsch Plug IP67	M12 - 4PIN IP67	Sheathed 18 AWG Primaries	SJO Cable	Convolute Covering

Color Code:
Pin Assignments:
DIN Connector Pin Assignments:
M12 Connector Pin Assignments:

Black – Common	Red – Normally Open	Blue – Normally Closed
A – Normally Open	B – Common	C – Normally Closed
#1 – Common	#2 – Normally Closed	#3 – Normally Open
#1 – Common	#2 – Not Used	#3 – Normally Open
		#4 – Not Used
		#4 – Normally Closed

Diaphragm Compatibility

Media	Buna	EP	Viton
Acetic Acid		•	
Acetone		•	
Acetylene	•		
Air	•		
Alcohols	•		
Alkalies (Weak)	•		
Alkalies (Strong)		•	
Ammonia (Anhydrous)	•		
Ammonia (Hydroxide)		•	
Asphalt			•
Automotive Oils	•		
Beer	•		
Benzene			•
Boric Acid	•		
Brake Fluid		•	
Bunker Oil	•		
Butane	•		
Butyl Cellosolve		•	
Carbon Dioxide	•		
Carbon Monoxide	•		
Cellube		•	
Chlorobenzene			•
Citric Acid	•		
Coke Oven Gas			•
Coolanol	•		
Diesel Fuels	•		
Di-Ester Lube (MIL-L-7808)			•
Dowtherm A&E		•	
Ethanol	•		
Ether		•	
Ethylene	•		
Ethylene Glycol	•		
Freon 11, 12, 112, 114	•		
Freon 22		•	
Fyrquel		•	
Fuel Oil	•		
Gasoline	•		
Glycerin	•		
Helium	•		
Hexane	•		

Media	Buna	EP	Viton
Hydraulic Oil (PET Base)	•		
Hydrocarbons	•		
Hydrogen	•		
Hydrogen Sulphide		•	
Isopropanol		•	
JP-3-6	•		
Kerosene	•		
LPG	•		
Lube Oil (PET base)	•		
Methanol	•		
MEK		•	
Mineral Oil	•		
Motor Oils	•		
Naptha		•	
Natural Gas	•		
Nitric Acid		•	
Nitrogen	•		
Oleum Spirits			•
Oxygen	•		
Ozone		•	
Crude Oil	•		
Phosphoric Acid			•
Propane	•		
Propanol	•		
Pydraul		•	
Shell Iris 902	•		
Silicone Greases	•		
Silicone Oils	•		
Skydrol 500 & 7000		•	
Soap Solutions	•		
Steam Below 320°F		•	
Stoddard Solvent	•		
Sulfuric Acid			•
Toluene			•
Transmission Fluid A	•		
Trisodium Phosphate	•		
Turpentine	•	•	
Water to 220°F (104°C)	•		
Water to 302°F (150°C)		•	

Other diaphragm materials are available. Consult factory for stock.

Temperature Conversions - [Formula °C = 5/9 (°F - 32°) °F = (9/5 °C) +32°]

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
40	104.0	62	143.6	84	183.2	106	222.8	128	262.4
41	105.8	63	145.4	85	185.0	107	224.6	129	264.2
42	107.6	64	147.2	86	186.8	108	226.4	130	266.0
43	109.4	65	149.0	87	188.6	109	228.2	131	267.8
44	111.2	66	150.8	88	190.4	110	230.0	132	269.6
45	113.0	67	152.6	89	192.2	111	231.8	133	271.4
46	114.8	68	154.4	90	194.0	112	233.6	134	273.2
47	116.6	69	156.2	91	195.8	113	235.4	135	275.0
48	118.4	70	158.0	92	197.6	114	237.2	136	276.8
49	120.2	71	159.8	93	199.4	115	239.0	137	278.6
50	122.0	72	161.6	94	201.2	116	240.8	138	280.4
51	123.8	73	163.4	95	203.0	117	242.6	139	282.2
52	125.6	74	165.2	96	204.8	118	244.4	140	284.0
53	127.4	75	167.0	97	206.6	119	246.2	141	285.8
54	129.2	76	168.8	98	208.4	120	248.0	142	287.6
55	131.0	77	170.6	99	210.2	121	249.8	143	289.4
56	132.8	78	172.4	100	212.0	122	251.6	144	291.2
57	134.6	79	174.2	101	213.8	123	253.4	145	293.0
58	136.4	80	176.0	102	215.6	124	255.2	146	294.8
59	138.2	81	177.8	103	217.4	125	257.0	147	296.6
60	140.0	82	179.6	104	219.2	126	258.8	148	298.4
61	141.8	83	181.4	105	221.0	127	260.6	149	300.2

Pressure Conversion Formulas

Into > Multiply by To Convert	PSI	H2O (15°C)	mmHg (0°C)	"Hg (0°C)	Millibar	Bar	Kg/Cm2	kPa
PSI	•	27.70	51.71	2.036	68.95	0.06895	0.07031	6.895
"H2O (15°C)	0.03609	•	1.867	0.07349	2.489	0.002489	0.002538	0.249
mmHg (0°C)	0.01934	0.5357	•	0.03937	1.3333	0.0013333	0.0013596	0.113
"Hg (0°C)	0.4912	13.61	25.40	•	33.86	0.03386	0.03453	3.386
Millibar	0.0145	0.4018	0.750062	0.02953	•	0.001	0.0010197	0.09998
Bar	14.50	401.8	750.062	29.53	1000	•	1.0197	99.98
Kg/Cm2	14.22	394.05	735.559	28.96	980.7	0.9807	•	98.05
kPa	0.145	4.016	7.519	0.2953	10.002	0.010	0.0102	•

Glossary of Terms

Snap-Action Switches

Nason uses only the highest quality snap-action electrical switches which insures a positive, instantaneous electrical contact under all operating conditions. Nason electrical switches are UL, CSA, CE, and military listed. Ask about our new environmentally sealed snap-action switch.

Diaphragms

Nason pressure switches incorporate elastomer diaphragms to provide a positive media seal. Nitrile is the material of choice for most applications. Ethylene propylene, fluorocarbon, fluorosilicon, and neoprene are readily available for specific applications.

Differential

A distinct change in pressure (or temperature for temperature switches) is necessary to reset a Nason snap-action switch to its original electrical state. This feature prevents “searching” and maximizes switch and system life. Catalog ranges are typical mid-range and can be varied with special construction.

Electrical Connections

A wide variety of electrical connectors are readily available for most applications. Screw terminals, wire leads, blades, studs, conduit, automotive DIN and military connectors are stock items.

Media Connections

Nason’s offering of media connections is unmatched in the industry. NPT, BSP, SAE, JIS, DIN, MS and many others are readily available.

Electrical Circuits

A unique variety of electrical contact arrangements allows the system designer to achieve complex logic at minimal cost. Contact arrangements up to form ZZ and isolated dual set points are available.

Electrical Rating

Most Nason switches are available in a nominal 5 or 10 AMP rating. Gold plated contacts for low current and 25 AMP ratings are also available.

Life

The operational life of a Nason switch is normally in excess of one million cycles. Operating life depends on many variables, and specific tests should be run if marginal conditions exist.

Application

Nason switches are used successfully in a great variety of pneumatic and hydraulic applications. Military vehicles and equipment, aviation, marine, machine tools, farm and construction equipment, process equipment, medical equipment, and industrial machinery are typical applications.

Customization

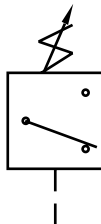
Nason has the experience and willingness to customize any switch to meet specific application requirements. Special media connections, electrical connections, circuitry and construction materials can be designed and produced as needed.

Installation Torques

Pressure Switch - 10 ft lbs
 Temperature Switch - 14-15 ft lbs.

Circuitry

Adjustable Pressure Switch
 Component Symbol



Fixed Pressure Switch
 Component Symbol

