

Industrial Thermostat Options for Assemblies

We use industrial thermostats to build assemblies for use in more complex devices. Select from value-added services such as adding wire leads, building enclosures, or potting services to ensure your product's success.

For more information and to start your next project, contact us today:

- www.decamanufacturing.com
- Call: 419-884-0071

GT Series, Ceramic Disc Thermostats

DECA Manufacturing offers the GT line of 1/2" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat available in both automatic reset and push button manual reset configurations. A wide range of operating temperatures, as well as a small size and a variety of physical configurations, permit the flexibility to meet your specific needs.

Features

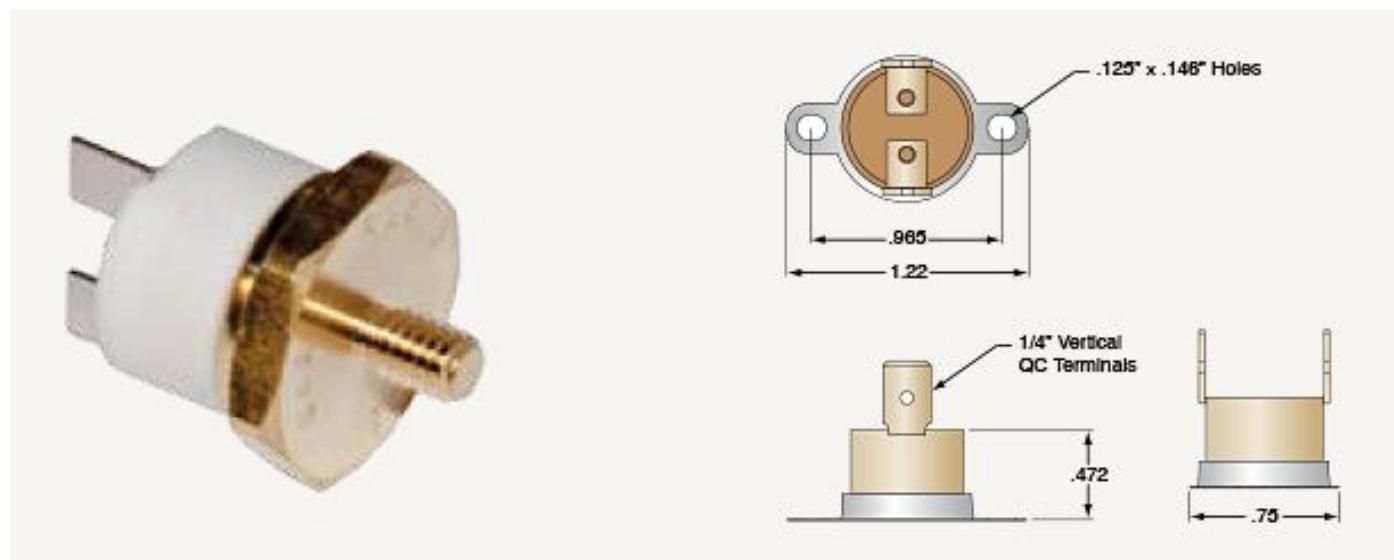
- Factory pre-set fixed temperature
- Normally open or normally closed contact configurations
- Current rating: to 15 Amp@ 120 Vac, 10 Amp@250 Vac
- Available temperatures from 0°C to 177°C
- Controlling or limit functionality
- Brass or stainless-steel construction
- Pressure ratings up to 7000 psi

Applications

- Food service equipment
- Mold platens
- Electric heaters
- Refrigerators and freezers
- Test pots & temperature control chamber
- Livestock warmers
- Agricultural equipment
- Environmental controls
- Vending machines
- Electric & gas ovens
- Automotive
- Hydraulics

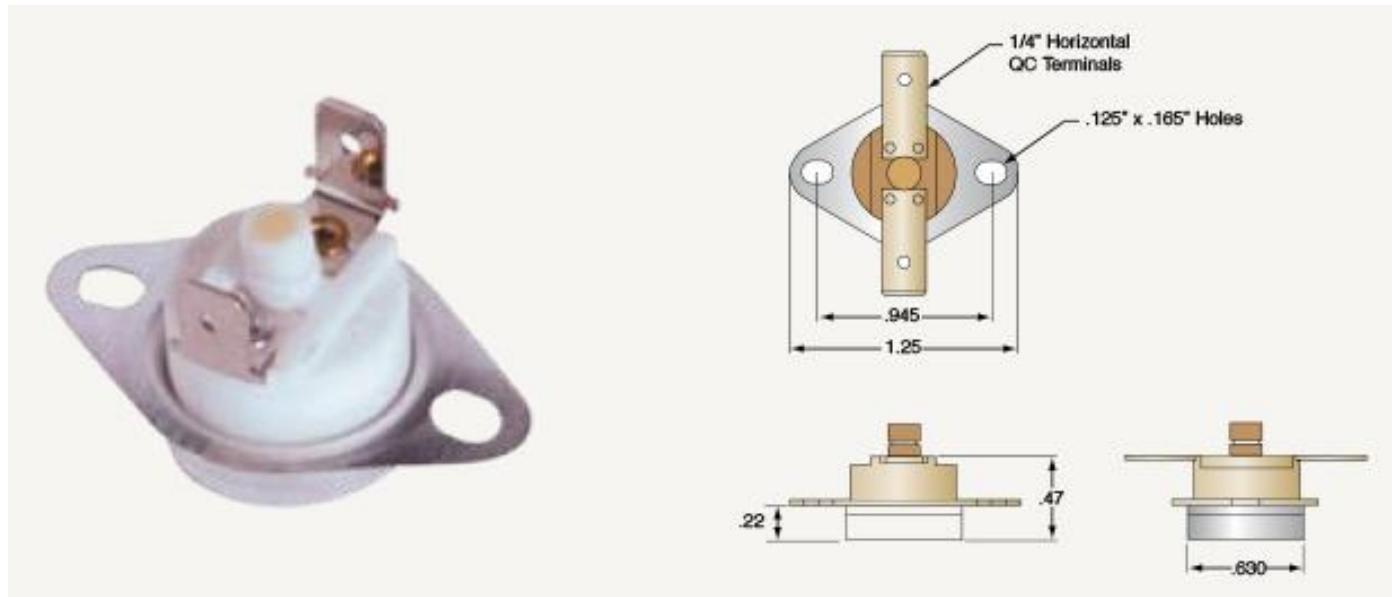
Auto Reset Construction

Options shown: Vertical 1/4" Q.C. Terminals and an 8-32 Stud Mount Cap



Manual Reset Construction

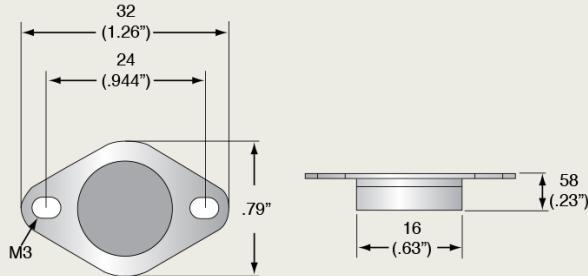
Options shown: Horizontal 1/4" Q.C. Terminals and Airstream Mount Flange



Mounting Options

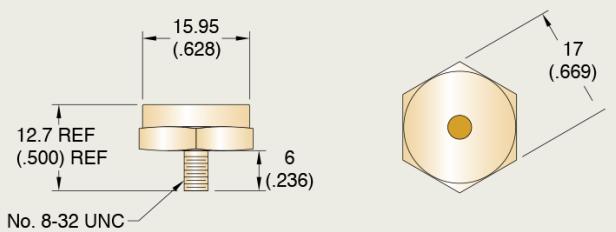
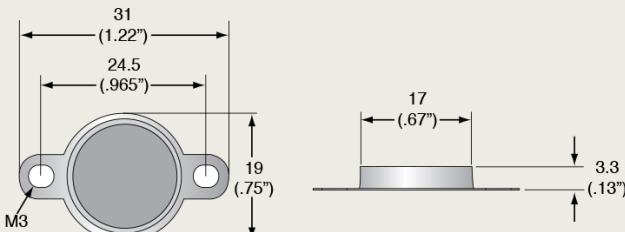
Airstream Mount Flange Cup

Code: AM • Material: Aluminum



Loose Ear Surface Mount Flange

Code: SM • Material Aluminum



Electrical Ratings & Temperature Information

Electrical Ratings and Selected Agency Approvals

Model Type	Cycles (X 1000)	Electrical Rating	Max. Temp. (°C)	Agency
GT52N	100	120 Vac/15 Amps 240 Vac/10 Amps	230°C	UL/CSA/VDE
GT52N	30	120 Vac/15 Amps 240 Vac/10 Amps	260°C	UL ONLY
GT52X	30	120 Vac/0.5 Amps	230°C	UL/CSA/VDE
GT52P	100	42Vdc/0.2 Amps	230°C	UL/CSA/VDE
GT15N	6	120 Vac/15 Amps 240 Vac/10 Amps	250°C	UL ONLY

Standard Tolerances: Manual Reset

Set Temperature		Open Tolerance	
°C	°F	°C	°F
150-250	302-482	+/-8.0	+/14.4

Standard Temperature Differential and Tolerances: Automatic Reset

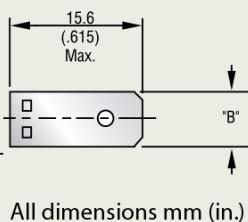
Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
150-260	301-446	25	45	+/-5.0	+/-9.0	+/-7.0	+/-13.0

Terminal Options

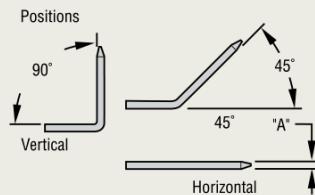
Quick Connects

Material: Brass, Tin Plated

	1/4"	3/16"
Thickness (A):	0.8 (.031)	0.5 (.020)
Width (B):	6.3 (.250)	4.8 (.187)
Orientation	Codes	
Vertical	4V	3V
Horizontal	4H	3H
45°	4A	3A



All dimensions mm (in.)



Numbering System for Samples

GT 52 N L 4V SM 165

Contact Type

52	Automatic Reset
15	Manual Reset

Contact Material

N	Silver Nickel Alloy
P	Gold Platinum Silver
X	Gold Platinum Silver

Contact Configuration

L	Normally Closed, Open on Rise
F	Normally Open, Close on Rise

Terminal Options

3/16" Quick Connects	
3V	Vertical
3H	Horizontal
3A	45°
1/4" Quick Connects	
4V	Vertical
4H	Horizontal
4A	45°

Other terminal types available.

Mounting Options

FC	No Mounting Provision, Flat Cup
AM	Airstream Mount Integral Flange
SM	Surface Mount Flange, Loose Ear
ST	8-32 Stud Mount

Other mounting types available.

Set temperature select in increments of 1°C from 150°C to -230°C

Higher set points available, contact Thermtrol for details.

GT20 Series, 1/2" Disc, Moisture Resistant, Fixed Thermostats

DECA Manufacturing offers the GT20 line of 1/2" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat with a moisture resistant body. A wide range of operating temperatures permit the flexibility to meet your needs.

Features

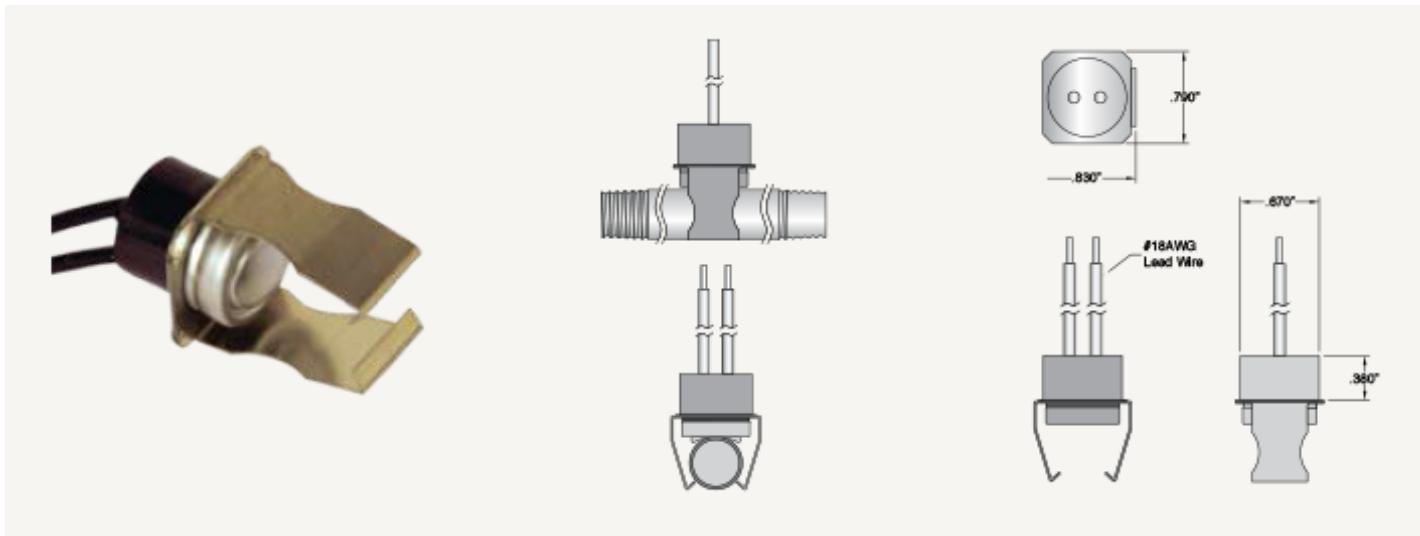
- Bi-metal disc, factory pre-set
- Automatic reset: Available with both normally open and normally closed switch logic
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive
- Moisture resistant

Applications

- Hydronic fan coils
- Humidifier
- Dehumidifier
- HVAC
- Major appliances
- Medical/lab equipment
- Vending machines
- Electric space heaters
- Hair care appliances
- Audio speakers
- Copiers
- Refrigeration compressors
- Commercial food equipment
- Vacuum cleaners
- Medical equipment
- Gas furnace protection
- Welding equipment

Auto Reset Construction

Options shown: 1/2" diameter pipe mount. Lead wires.



Electrical Ratings & Temperature Information

Electrical Ratings and Selected Agency Approvals

Model Type	Cycles (X 1000)	Electrical Rating	Max. Temp. (°C)	Agency
GT20	100	120 Vac/15 Amps 240 Vac/10 Amps 125 Vac/7.5 Amps IND.	80°C	UL E201152

Standard Temperature Differential and Tolerances: Automatic Reset

Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
0-80	32-176	10	18	+/-3	+/-5.4	+/-7.0	+/-13.0

Numbering System

GT	20	N	L	W	RE	60
Contact Type						
20	Automatic Reset					
Contact Material						
N	Silver Nickel Alloy					
Contact Configuration						
L	Normally Closed, Open on Rise					
F	Normally Open, Close on Rise					

Custom lead lengths available upon request.

Mounting Options

FC	No Mounting Provision, Flat Cup
AM	Airstream Mount Integral Flange
SM	Surface Mount Flange, Loose Ear
ST	8-32 Stud Mount
RM	1/4" - 5/16" OD Pipe Mount
RJ	3/8" OD Pipe Mount
RE	1/2" OD Pipe Mount
RK	5/8" OD Pipe Mount
RL	3/4" - 7/8" OD Pipe Mount

Set temperature select in increments of 1°C from 0°C to 80°C

GT43 Series, Disc Fixed Thermostats

DECA Manufacturing offers the GT43 line of 3/4" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity function, contact resistance, and dielectric strength. Excellent multipurpose thermostat with increased contact capacity. A wide range of operating temperatures permit the flexibility to meet your needs.

Features

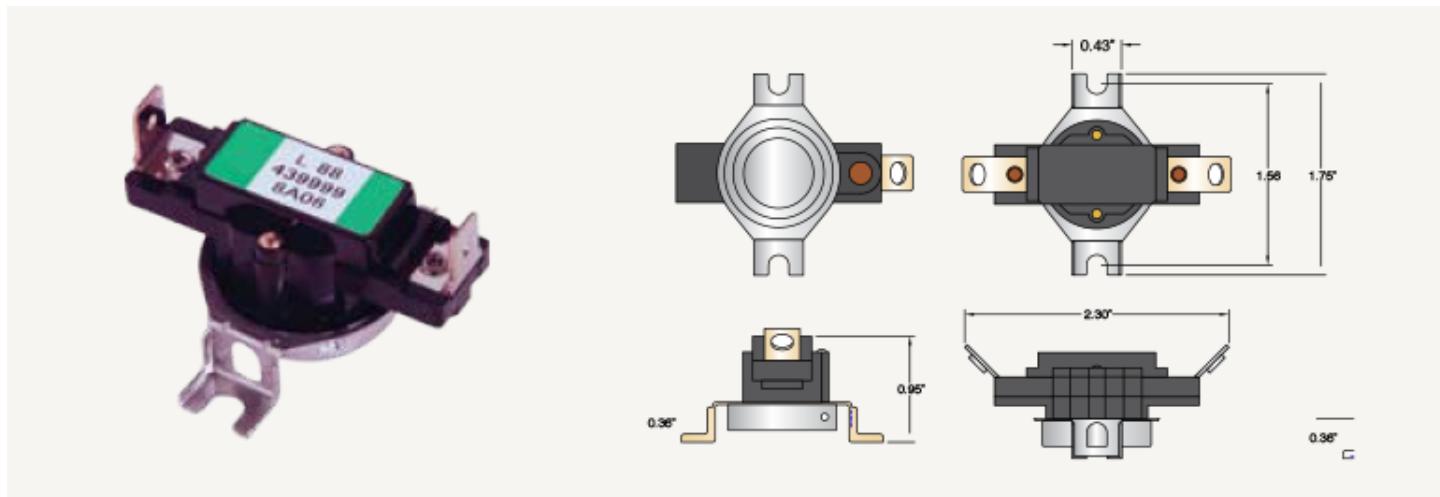
- Bi-metal disc, factory pre-set
- Automatic reset: Available with both normally open and normally closed switch logic
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive
- ROHS Compliant

Applications

- HVAC
- Major appliances
- Medical/lab equipment
- Vending machines
- Electric space heaters
- Overhead projectors
- Hair care appliances
- Audio speakers
- Copiers
- Refrigeration compressors
- Commercial food equipment
- Vacuum cleaners
- Medical equipment
- Gas furnace protection
- Power supplies
- Communications equipment
- Welding equipment

Auto Reset Construction

Options shown: Vertical 1/4" Q.C. Terminals and Surface Mount Flange



Electrical Ratings Approvals & Temperature Information

Electrical Ratings and Selected Agency Approvals				
Model Type	Cycles (X 1000)	Electrical Rating	Max. Temp. (°C)	Agency
GT43	100	250 Vac/25 Amps 480 Vac/13 Amps	150°C	UL E201152

Standard Temperature Differential and Tolerances: Automatic Reset							
Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
0-119	32-246	10	18	+/-3	+/-5.4	+/-7.0	+/-13.0
120-150	248-302	10	18	+/-5	+/-9	+/-7.0	+/-13.0

Numbering System

GT43	1	1	3	2	5	090	85
Contact Configuration							
1 Normally Closed, Open on Rise 2 Normally Open, Close on Rise							
Body Material							
1 Phenolic							
Cap							
0 Open 3 Closed							
Terminal Options							
1 1/4" QC Terminal Flat 2 1/4" QC Terminal 45 Degrees 3 1/4" QC Terminal Vertical 6 8-32 Screw Thread Flat 7 8-32 Screw Thread 45 Degrees							
Terminal to Bracket Orientation							
000 0° from Terminals 045 45° from Terminals 090 90° from Terminals							
Set temperature select in increments of 1°C from 0°C to 150°C.							

Manual Reset version also available.

1NT Series, Fixed Thermostats

DECA Manufacturing offers Sensata's Klixon® line of 1NT fixed temperature thermostats. Approved by numerous testing agencies, all 1NT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat available in both automatic reset and push button manual reset configurations. A wide range of operating temperatures, small size, and a variety of physical configurations, permit the flexibility to meet your specific needs.

Features

- Bi-metal disc, factory pre-set
- Switch Actions:
 - Automatic reset: Available with both normally open and normally closed switch logic
 - Manual reset: Mechanically resettable device
 - Trip free manual rest: UL M2 class rating that resists consumer tampering
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive

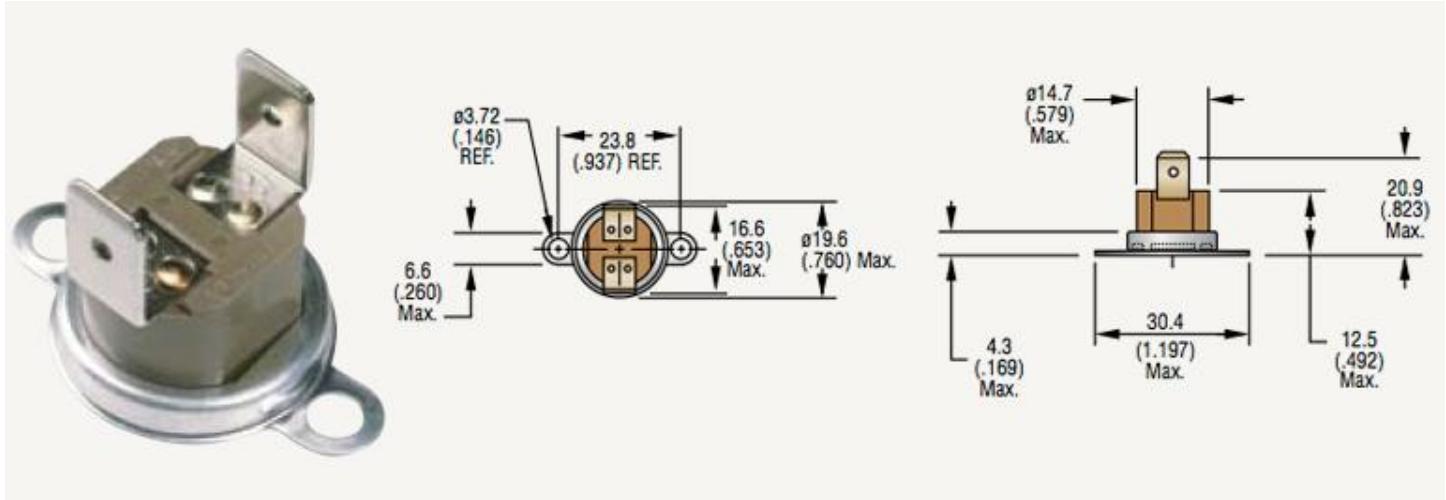
Applications

- Vending machines
- Microwave ovens
- Electric space heaters
- Overhead projectors
- Hair care appliances
- Clothes dryers
- Audio speakers
- Copiers
- Refrigeration compressors
- Food processing equipment
- Toasters
- Coffee makers
- Vacuum cleaners
- Medical equipment
- Dishwashers
- Gas furnace protection
- Power supplies
- Communications equipment
- Welding equipment



Auto Reset Construction

Options shown: Vertical 1/4" Q.C. Terminals and Surface Mount Flange



Manual Reset Construction

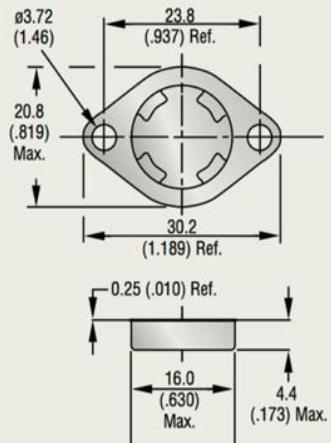
Options shown: Horizontal 1/4" Q.C. Terminals and Airstream Mount Flange



Mounting Options

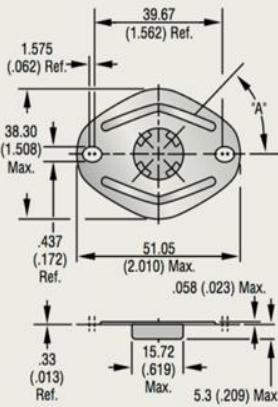
Airstream Mount Flange Cup

Code: AM Material: Aluminum



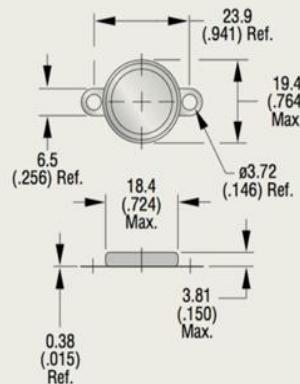
Large Oval Integral Cup

Code: LO Material: Aluminum



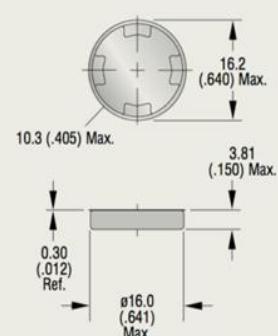
Loose Ear Surface Mount Flange

Code: SM Material: Aluminum



Flat Cup

Code: FC Material: Aluminum

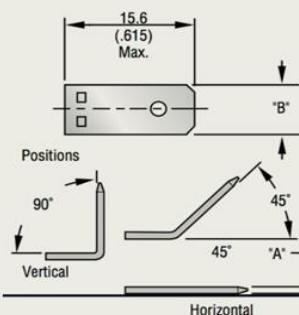


Terminal Options

Quick Connects

Material: Brass, Tin Plated

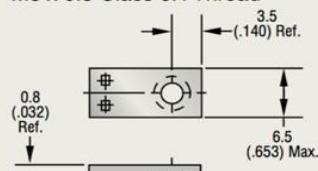
	1/4"	3/16"
Thickness (A):	0.8 (.031)	0.5 (.020)
Width (B):	6.3 (.250)	4.8 (.187)
Orientation	Codes	
Vertical	4V	3V
Horizontal	4H	3H
45°	4A	3A



All dimensions mm (in.)

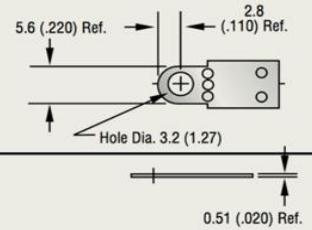
Screw Terminals

Code: SC Material: Steel, Nickel Plated
M3 x 0.5 Class 6H Thread



Solder Terminals

Code: ST Material: Brass, Tin Plated



Numbering System

1NT 08 L - 3H - AM - 199°C

Contact Type

01	Automatic Reset, Silver Contacts
11	Automatic Reset, Gold Contacts**
08	Manual Reset, Silver Contacts
12	Manual Reset, Gold Contacts**
15	Trip Free MR*, Silver Contacts
19	Trip Free MR*, Gold Contacts**

*MR = Manual Reset

**Gold contacts are applicable for circuits from 50mA to 1AMP

Contact Configuration

L	Normally Closed, Open on Rise
F	Normally Open, Close on Rise

F contacts not applicable for Manual Reset devices.

Mounting Options

FC	No Mounting Provision, Flat Cup
AM	Airstream Mount Integral Flange
SM	Surface Mount Flange, Loose Ear
LO	Large Oval Airstream Mount Integral Flange

Terminal Options

3/16" Quick Connects

3V Vertical

3H Horizontal

3A 45°

1/4" Quick Connects

4V Vertical

4H Horizontal

4A 45°

Other

ST Solder Terminals

SC Screw Terminals

Other terminal types available.

Set temperature -

select in increments of 1°C from 0°C to 204°C