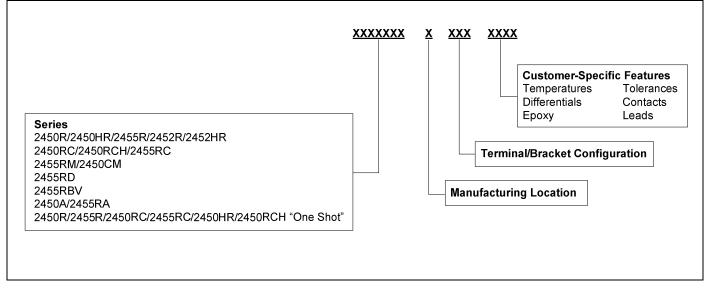
## NOMENCLATURE

The nomenclature given in Figure 1 is provided for reference only.

## Figure 1. Commercial Thermostat Nomenclature



## **DEFINITION OF TERMS**

- Automatic Reset: A type of thermostat that will automatically reset at a specific temperature (i.e. a thermostat operates at 65,5 °C [150 °F] and resets at 48,89 °C [120 °F]).
- **Bimetal:** Two dissimilar metals bonded together to form the material for manufacturing thermally-sensitive discs which actuate the thermostat.
- Close on Rise (COR): Refers to operation of the contacts. When the temperature rises to its set point, the contacts close or make contact and complete the circuit.
- Contact Resistance: The value of resistance measured between the terminals.
- **Dielectric Strength**: The value of insulation between two electrically conducting parts. It may be tested by the application of a predetermined overvoltage for a specified time.
- Differential: The temperature difference between the operate and reset set points, also known as operate and reset.
  - **Nominal:** The temperature difference between nominal set points regardless of tolerance.
  - Maximum: Maximum number of degrees between actual opening and closing set points.
  - Minimum: Minimum number of degrees between actual opening and closing set points.
- Exposure Temperature: Thermal environment of a device during application operation.
- FLA (Full Load Amps): Current taken from the line by the motor when the motor is yielding the rated hp at the rated voltage and frequency.
- Life Cycles: The endurance rating of the thermostat expressed in number of operations with stated electrical load applied. Temperature limit application = open on rise.
- LRA (Locked Rotor Amps): The amount of current the motor can be expected to draw under starting conditions when full voltage is applied, also known as starting inrush current.
- Manual Reset: A bimetal thermostat with a reset button that must be pressed to reset the contacts.
- **Open on Rise (OOR):** Refers to the operation of contacts. When the temperature rises to its set point the contacts open, terminating the circuit.
- **Overmold:** Encapsulation with an insulating material.
- Phenolic: Thermoset plastic used for the insulating body of the thermostat.
- Set Point: The nominal temperature at which the thermostat operates.
- SPST (Single Pole/Single Throw): A switch with one current path which can be either open or closed.
- **Tolerance:** The allowable range above and below the set point temperature.
- Operate: Change of state when the thermostat reaches its set point.
- Reset: Change of state when the thermostat returns to its original condition prior to operation.

#### NOTES

#### • Standard Temperature Characteristics Tables:

- Temperatures: Please consult applications engineering for temperature ranges, tolerances and differentials not noted.
   The operating temperature ranges include tolerances.
- **Tolerances:** The ± tolerances given have been established after review of many thermostat applications. Attempts should be made to establish the widest acceptable tolerance possible.
- UL and CSA Approvals: 12,7 mm [0.5 in] thermostats are available with multiple agency approval for incorporation into equipment.
- Fan control applications: Require thermostat set points to be derated by 20 °C from the equivalent temperature limit application. They also close on rise.
- Dimensions: Are for reference only and are given in mm [in].

Figure 2. 2450R/2450HR/2455R/2452R/2452HR Series Phenolic Automatic Reset Thermostat



The 2450R/2450HR/2455R/2452R/2452HR Series is a single pole, single throw, snap-acting, non-adjustable thermostat which may be used in applications such as power supplies, general appliances and medical equipment. A temperature-sensitive bimetal disc, electrically and thermally isolated from the switch, is used to actuate the normally-closed contacts. Contacts open when surface or ambient temperatures increase to the operating set point of the calibrated bimetal disc. The entire switch is enclosed in a phenolic housing; the bimetal disc is retained by a metal heat-conducting end cap. Due to the small size of this unit and the inherently low mass of the bimetal snap-action disc, response of this thermostat to temperature changes is extremely rapid, compared to other commercially available thermostatic devices. A variety of mounting brackets and terminals are available.

All versions are UL/CSA approved. The 2452R/2452HR/2455R version meets the requirements of EN60730-01.

Potential applications include:

- Power supplies
- Appliances
- Medical equipment
- Water heaters
- Office automation
- Industrial equipment
- HVAC equipment

## Table 1. 2450R/2450HR/2455R/2452R/2452HR Series Standard Temperature Characteristics

Operating Temperature Range	Tole	erance	Standard Mean Differential
	Open	Close	°C [°F]
	°C [°F]	°C [°F]	
	±4 [±7]	±6 [±10]	28 to 34 [50 to 60]
0 °C to 26 °C	±4 [±6]	±6 [±10]	22 to 27 [40 to 49]
[32 °F to 79 °F]	±4 [±6]	±5 [±9]	17 to 22 [30 to 39]
	±4 [±6]	±5 [±8]	14 to 16 [25 to 29]
	±3 [±5]	±5 [±8]	8 to 14 [15 to 24]
	±5 [±9]	±8 [±15]	45 to 56 [81 to 100]
	±4 [±7]	±6 [±11]	34 to 45 [61 to 80]
27 °C to 82 °C	±4 [±6]	±6 [±10]	28 to 34 [50 to 60]
[80 °F to 180 °F]	±3 [±5]	±6 [±10]	22 to 27 [40 to 49]
	±3 [±5]	±5 [±9]	17 to 22 [30 to 39]
	±3 [±5]	±5 [±8]	8 to 16 [15 to 29]
	±6 [±10]	±8 [±15]	45 to 56 [81 to 100]
	±5 [±8]	±8 [±15]	34 to 45 [61 to 80]
83 °C to 110 °C	±4 [±7]	±7 [±12]	28 to 34 [50 to 60]
[181 °F to 230 °F]	±4 [±6]	±6 [±10]	22 to 27 [40 to 49]
	±4 [±6]	±5 [±9]	17 to 22 [30 to 39]
	±4 [±6]	±5 [±8]	8 to 16 [15 to 29]
	±7 [±12]	±10 [±18]	45 to 56 [80 to 100]
	±5 [±9]	±8 [±15]	34 to 45 [61 to 80]
111 °C to 150 °C	±5 [±8]	±7 [±12]	28 to 34 [50 to 60]
[231 °F to 302 °F]	±4 [±7]	±7 [±12]	22 to 27 [40 to 49]
	±4 [±7]	±6 [±11]	17 to 22 [30 to 39]
	±4 [±7]	±6 [±10]	14 to 16 [25 to 29]

Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	See Tables 3, 4
Voltage	120 Vac to 250 Vac
Operating temperature range	0 °C to 150 °C [32 °F to 302 °F]
Environmental exposure range	-18 °C to 177 °C [0 °F to 350 °F]
Materials:	
Base	phenolic
Contacts	silver alloy
Terminals	unplated brass, plated brass or steel
Closure	aluminum, brass or stainless steel
Brackets	aluminum or stainless steel
UL and CSA approvals	• 2455R: 6,35 mm [0.25 in] clearance; UL File MH8267, UL File E36103; CSA File LR21048
	<ul> <li>2450HR: 1,59 mm [0.0625 in] clearance; UL File E36103; CSA File LR21048</li> </ul>
	<ul> <li>2450R: 1,59 mm [0.0625 in] clearance; UL File E36103; CSA File LR 21048</li> </ul>
	<ul> <li>2452R: 2.66mm [0.105 in] clearance; UL E36103</li> </ul>
	<ul> <li>2452HR: 2.66mm [0.105 in] clearance; UL36103</li> </ul>
Weight	6 g [0.2 oz] (does not include brackets or wire leads)

## Table 2. 2450R/2450HR/2455R/2452R/2452HR Series Specifications

## Table 3. 2450R/2450HR/2452R/2452HR Contact Ratings

Life Cycles	120 Vac	240 Vac	277 Vac
100,000	15 A resistive	10 A resistive	10 A resistive
30,000	125 VA pilot duty	125 VA pilot duty	-

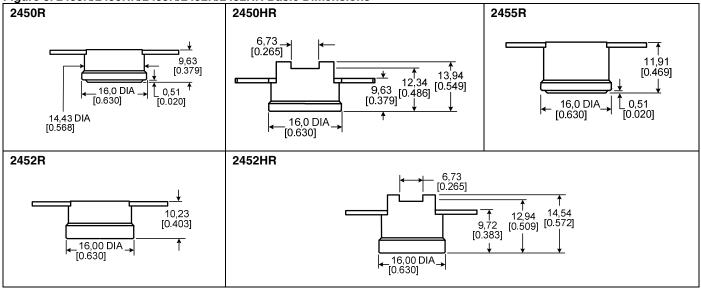
Note: 2450 approval rating is limited by EN60730-1 to 125 Vac max.

### Table 4. 2455R Contact Ratings

Life Cycles	120 Vac	240 Vac	277 Vac
100,000	15 A resistive	10 A resistive	7.2 A resistive
	4.4 FLA 26.4 LRA	2.2 FLA 13.2 LRA	
	125 VA pilot duty	125 VA pilot duty	
6,000	5.8 FLA, 34.8 LRA	2.9 FLA, 17.4 LRA	-

Note: Additional contact ratings are available, please contact Honeywell.

### Figure 3. 2450R/2450HR/2455R/2452R/2452HR Basic Dimensions



## Figure 4. 2450RC/2450RCH/2455RC Series Automatic Reset Thermostat



## Table 5. 2450RC/2450RCH/2455RC Series Standard Temperature Characteristics

Operating Temperature Range	Tole	rance	Standard Mean Differential
	Open	Close	°C [°F]
	°C [°F]	°C [°F]	
	±4 [±7]	±6 [±10]	28 to 34 [50 to 60]
0 °C to 26 °C	±4 [±6]	±6 [±10]	22 to 27 [40 to 49]
[32 °F to 79 °F]	±4 [±6]	±5 [±9]	17 to 22 [30 to 39]
	±4 [±6]	±5 [±8]	14 to 16 [25 to 29]
	±3 [±5]	±5 [±8]	8 to 14 [15 to 24]
	±5 [±9]	±8 [±15]	45 to 56 [81 to 100]
	±4 [±7]	±6 [±11]	34 to 45 [61 to 80]
27 °C to 82 °C	±4 [±6]	±6 [±10]	28 to 34 [50 to 60]
[80 °F to 180 °F]	±3 [±5]	±6 [±10]	22 to 27 [40 to 49]
	±3 [±5]	±5 [±9]	17 to 22 [30 to 39]
	±3 [±5]	±5 [±8]	8 to 16 [15 to 29]
	±6 [±10]	±8 [±15]	45 to 56 [81 to 100]
	±5 [±8]	±8 [±15]	35 to 45 [61 to 80]
83 °C to 110 °C [181 °F to 230 °F]	±4 [±7]	±7 [±12]	28 to 34 [50 to 60]
	±4 [±6]	±6 [±10]	22 to 27 [40 to 49]
	±4 [±6]	±5 [±9]	17 to 22 [30 to 39]
	±4 [±6]	±5 [±8]	8 to 16 [15 to 29]

Operating Temperature Range	Tole	erance	Standard Mean Differential
	Open	Close	°C [°F]
	°C [°F]	°C [°F]	
	±7 [±12]	±10 [±18]	45 to 56 [81 to 100]
	±5 [±9]	±8 [±15]	34 to 45 [61 to 80]
111 °C to 149 °C	±5 [±8]	±7 [±12]	28 to 34 [50 to 60]
[231 °F to 300 °F]	±4 [±7]	±7 [±12]	22 to 27 [40 to 49]
	±4 [±7]	±6 [±11]	17 to 22 [30 to 39]
	±4 [±7]	±6 [±10]	14 to 16 [25 to 29]
	±8 [±15]	±11 [±20]	39 to 45 [71 to 80]
150 °C to 170 °C	±6 [±10]	±11 [±20]	34 to 39 [61 to 70]
[301 °F to 335 °F]	±6 [±10]	±8 [±15]	28 to 33 [50 to 60]
	±6 [±10]	±7 [±12]	22 to 27 [40 to 49]
171 °C to 200 °C	±14 [±25]	±14 [±25]	51 to 56 [91 to 100]
171 °C to 220 °C	±11 [±20]	±11 [±20]	39 to 50 [71 to 90]
	±8 [±15]	±11 [±20]	28 to 39 [50 to 70]
001 °C to 005 °C	±14 [±25]	±14 [±25]	51 to 56 [91 to 100]
221 °C to 235 °C	±11 [±20]	±11 [±20]	39 to 50 [71 to 90]
[420 F to 430 F]	±8 [±15]	±11 [±20]	28 to 39 [50 to 70]
236 °C to 260 °C	±14 [±25]	±14 [±25]	31 to 56 [60 to 100]
[451 °F to 500 °F]	±11 [±20]	±11 [±20]	28 to 50 [50 to 90]

## Table 6. 2450RC/2450RCH/2455RC Series Standard Temperature Characteristics (continued)

## Table 7. 2450RC/2450RCH/2455RC Series Specifications

Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	See Tables 8, 9
Voltage	120 Vac to 250 Vac
Operating temperature range	0 °C to 260 °C [32 °F to 500 °F]
Environmental exposure range	-20 °C to 287 °C [0 °F to 550 °F]
Materials:	
Base	ceramic
Contacts	silver alloy
Terminals	plated steel
Closure	aluminum, brass, or stainless steel
Brackets	stainless steel
Approvals	<ul> <li>2450RCH: 1,59 mm [0.0625 in] clearance through air and over surface; UL File E36103; CSA File LR21048</li> </ul>
	• 2450RC: 1,59 mm [0.0625 in] clearance; UL file E36103; CSA File LR21048
	• 2455RC: 6,35 mm [0.25 in] clearance; UL File E36103; CSA File LR21048
Weight	6 g [0.21 oz] (does not include brackets or wire leads)

## Table 8. 2450RCH/2450RC Contact Ratings

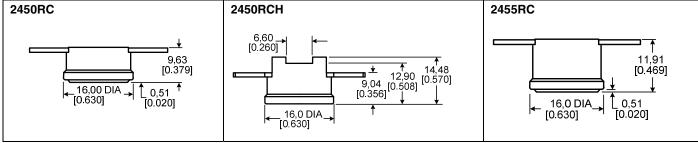
Life Cycles	120 Vac	240 Vac
100,000	15 A resistive	10 A resistive
30,000	125 VA pilot duty	125 VA pilot duty

## Table 9. 2455RC Contact Ratings

Life Cycles	120 Vac	240 Vac
100,000	15 A resistive	10 A resistive
100,000	4.4 FLA 26.4 LRA	2.2 FLA 13.2 LRA
100,000	125 VA pilot duty	125 VA pilot duty

Note: Additional contact ratings are available, please contact Honeywell.

## Figure 5. 2450RC/2450RCH/2455RC Basic Dimensions



#### The 2455RM (phenolic)/2450CM (ceramic) Series is a All versions are UL/CSA, European approved. single pole, single throw, snap-acting, non-adjustable thermostat. A temperature-sensitive bimetal disc, electrically Potential applications include those where a manual reset is and thermally isolated from the switch, is used to actuate desired, including: the normally-closed contacts. Contacts open when surface or ambient temperatures increase to the operating set point Power supplies ٠ of the calibrated bimetal disc. The entire switch is enclosed ٠ Appliances in a housing; the bimetal disc is retained by a metal heat-conducting end cap. The circuit remains open above the Medical equipment ٠ Water heaters room ambient temperature until the manual reset button is • depressed. Due to the small size of this unit and the Office automation • inherently low mass of the bimetal snap-action disc, Industrial equipment • response of this thermostat to temperature changes is HVAC equipment extremely rapid, compared to other commercially available thermostatic devices. For increased sensitivity, an exposed bimetal disc may be specified. A variety of mounting brackets and terminals is available.

## Figure 6. 2455RM/2450CM Series Phenolic or Ceramic Manual Reset Thermostats

## Table 10. 2455RM Series Standard Temperature Characteristics

Operating Temperature Range	Tolerance °C [°F]
52 °C to 93 °C [125 °F to 200 °F]	±5 [±8]
94 °C to 121 °C [201 °F to 250 °F]	±6 [±10]
122 °C to 150 °C [251 °F to 302 °F]	±7 [±12]

## Table 11. 2450CM Series Standard Temperature Characteristics

Operating Temperature Range	Tolerance °C [°F]
52 °C to 93 °C [125 °F to 200 °F]	±5 [±8]
94 °C to 121 °C [201 °F to 250 °F]	±6 [±10]
122 °C to 149 °C [251 °F to 300 °F]	±7 [±12]
150 °C to 177 °C [301 °F to 350 °F]	±8 [±15]
177 °C to 204 °C [351 °F to 400 °F]	±10 [±18]
205 °C to 232 °C [401 °F to 450 °F]	±11 [±20]

Characteristic	Parameter
Switch type	SPST
Reset type	manual
Amperage	15 A resistive at 6,000 cycles (UL); 16 A resistive at 1000 cycles (EU)
Voltage	120 Vac to 250 Vac
Operating temperature range	2455RM: 52 °C to 150 °C [125 °F to 302 °F]
	2450CM: 52 °C to 232 °C [125 °F to 450 °F]
Environmental exposure range	2455RM: -20 °C to 177 °C [0 °F to 350 °F]
	2450CM: -20 °C to 260 °C [0 °F to 500 °F]
Materials:	
Base	2455RM: phenolic; 2450CM: ceramic
Contacts	silver alloy
Terminals	2455RM: unplated brass, plated brass or steel; 2450CM: plated steel
Closure	aluminum, brass, or stainless steel
Brackets	stainless steel
Approvals	UL File E36103, CSA File LR21048
Weight	6 g [0.21 oz] (does not include brackets or wire leads)

## Table 12. 2455RM/2450CM Series Specifications

## NOTICE

 2455RM/2450CM thermostats are intended as a manual reset control. They are not to be used on applications where a limit thermostat is required unless back-up protection is provided. Units have been tested by UL for 1,000 cycles under load, 5,000 cycles no load, and are not considered as limit devices.

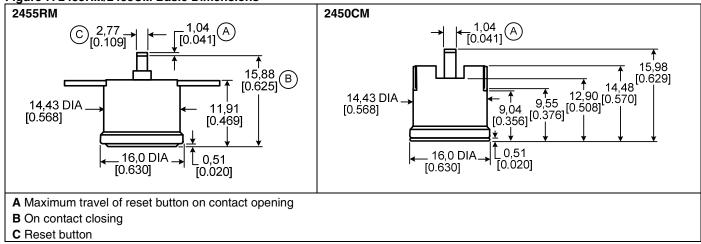
- This range of thermostats has an automatic reset function with manual override function.
- Reset pin operation should not be performed above 70% of set point temperature.

## Table 13. 2450CM/2455RM Contact Ratings

Life Cycles	120 Vac	240 Vac
6,000	15 A resistive	10 A resistive
6,000	4.4 FLA 26.4 LRA	2.2 FLA 13.2 LRA
	125 VA pilot duty	125 VA pilot duty

Note: Additional contact ratings are available, please consult Honeywell.

## Figure 7. 2455RM/2455CM Basic Dimensions



### Figure 8. 2455RD Series Phenolic Manual Reset



The 2455RD Series is a single pole, single throw, snapacting, non-adjustable thermostat. A temperature-sensitive bimetal disc, electrically and thermally isolated from the switch, is used to actuate the normally-closed contacts. Contacts open when surface or ambient temperatures increase to the operating set point of the calibrated bimetal disc. The entire switch is enclosed in a housing; the bimetal disc is retained by a metal heat-conducting end cap. The circuit remains open above the room ambient temperature until the manual reset button is depressed. (These devices are constructed with an additional steel disc so that they are manual reset only. They do not have an automatic reset.) Due to the small size of this unit and the inherently low mass of the bimetal snap-action disc, response of this thermostat to temperature changes is extremely rapid, compared to other commercially available thermostatic devices. For increased sensitivity, an exposed bimetal disc may be specified. A variety of mounting brackets and terminals is available.

All versions are UL/CSA and European approved.

Potential applications include those where a manual reset is desired, including:

- Power supplies
- Appliances
- Medical equipment
- Water heaters
- Office automation
- Industrial equipment
- HVAC equipment

### Table 14. 2455RD Series Standard Temperature Characteristics

Operating Temperature Range	Tolerance °C [°F]
52 °C to 93 °C [125 °F to 200 °F]	±5 [±8]
94 °C to 121 °C [201 °F to 250 °F]	±6 [±10]
122 °C to 150 °C [251 °F to 302 °F]	±7 [±12]

## Table 15. 2455RD Series Specifications

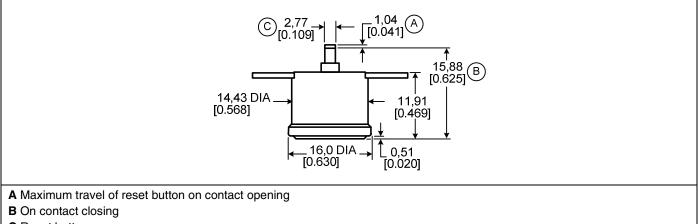
Characteristic	Parameter
Switch type	SPST
Reset type	manual
Amperage	15 A resistive at 6,000 cycles (UL); 16 A resistive at 1000 cycles (EU)
Voltage	120 Vac to 250 Vac
Operating temperature range	2455RD: 52 °C to 150 °C [125 °F to 302 °F]
Environmental exposure range	2455RD: -20 °C to 177 °C [0 °F to 350 °F]
Materials:	
Base	phenolic
Contacts	silver alloy
Terminals	unplated brass, plated brass or steel
Closure	aluminum, brass, or stainless steel
Brackets	stainless steel
Approvals	UL File E36103, CSA File LR21048

## Table 16. 2455RD Contact Ratings

Life Cycles	120 Vac	240 Vac
6000	15 A resistive	10 A resistive

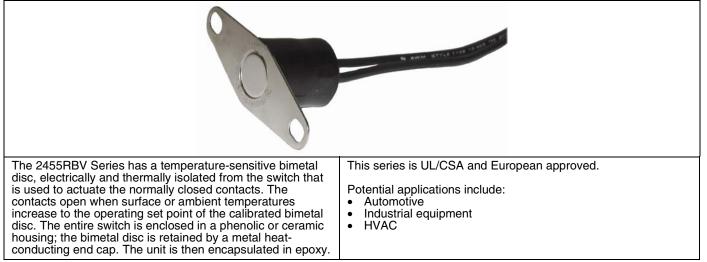
Note: Additional contact ratings are available, please consult Honeywell.

## Figure 9. 2455RD Basic Dimensions



C Reset button

## Figure 10. Series 2455RBV Overmolded Automatic Reset Thermostats



## Table 17. 2455RBV Series Standard Temperature Characteristics

Operating Temperature Range	Tole	rance	Standard Mean Differential
	Open °C [°F]	Close °C [°F]	°C [°F]
10.0 °C to 06.7 °C	±4 [±7]	±6 [±10]	17 to 44 [30 to 80]
-12,2 °C to 26,7 °C	±3 [±6]	±4 [±8]	14 to 28 [25 to 50]
	±3 [±5]	±4 [±8]	11 to 22 [20 to 40]
27,2 °C to 105 °C	±3 [±6]	±6 [±10]	17 to 44 [30 to 80]
[81 °F to 221 °F]	±3 [±5]	±4 [±8]	11 to 28 [20 to 50]

Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	see Table 19
Voltage	120 Vac to 250 Vac
Operating temperature range	0 °C to 105 °C [32 °F to 221 °F]
Environmental exposure range	-18 °C to 126.6 °C [0 °F to 260 °F]
Materials:	
Boot	nylon, with epoxy filled or injection molded
Base	internal 2455RC ceramic or 2455R phenolic
Contacts	silver alloy
Terminals	plated steel with wires
Closure	aluminum, brass, or stainless steel
Brackets	stainless steel
Approvals	UL File SA4469, CSA File LR21048.
Weight	6.5 g [0.23 oz] (does not include brackets or wire leads)

## Table 19. 2455RBV Series Contact Ratings

Life Cycles	120 Vac	240 Vac
100,000	15 A resistive	10 A resistive
6,000	5.8 FLA 34.8 LRA	2.9 FLA 17.4 LRA
100,000	4.4 FLA 26.4 LRA	2.2 FLA 13.2 LRA
	125 VA pilot duty	125 VA pilot duty

Note: Additional contact ratings are available, please contact Honeywell.

## Figure 11. 2455RBV Basic Dimensions

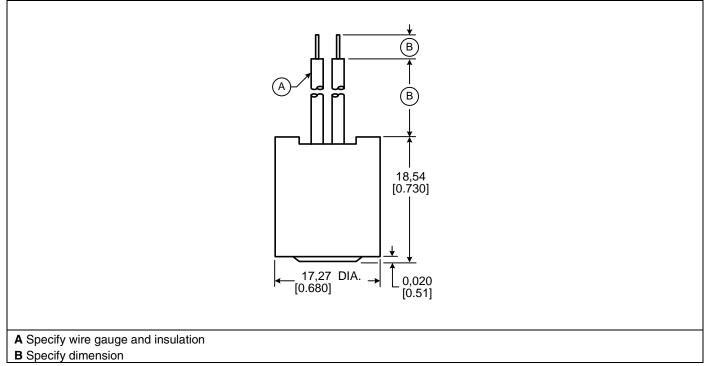


Figure 12. 2450A/2455RA Heat Detection Thermostats



## NOTICE

Final approval of a fire detection system is determined by UL as outlined in UL #521 and UL #217 for the suitability of the combination of the thermostat (2450A/2455RA) and the user's mounting base, together with its intended application of the total fire detection system. To assist the use with design and testing , a minimum of 0.25 in extension beyond the housing is recommended.

## Table 20. 2450A/2455RA Series Standard Temperature Characteristics

Detection (0	Close on Rise)	Release (Op	oen on Rise)
Close °C [°F]	Open °C [°F]	Open °C [°F]	Close °C [°F]
47 ±3 [117±5]	30 min [85 min]	57 ±3 [117 ±5]	30 min [85 min]
57 ±3 [135 ±5]	32 min [90 min]	57 ±3 [135 ±5]	32 min [90 min]
69 ±3 [156 ±5]	32 min [90 min]	69 ±3 [156 ±5]	32 min [90 min]
85 ±4 [185 ±7]	32 min [90 min]	85 ±4 [185 ±7]	32 min [90 min]
107 ±4 [225 ±7]	32 min [90 min]	107 ±4 [225 ±7}	32 min [90 min]

## Notes:

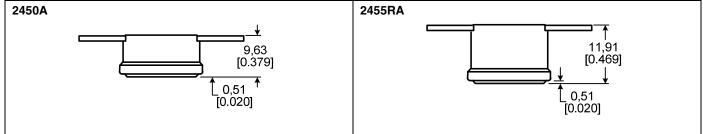
Additional switches can be provided as long as they fall between 47,2 °C to 107,2 °C [117 °F to 225 °F] close on rise or open or rise.

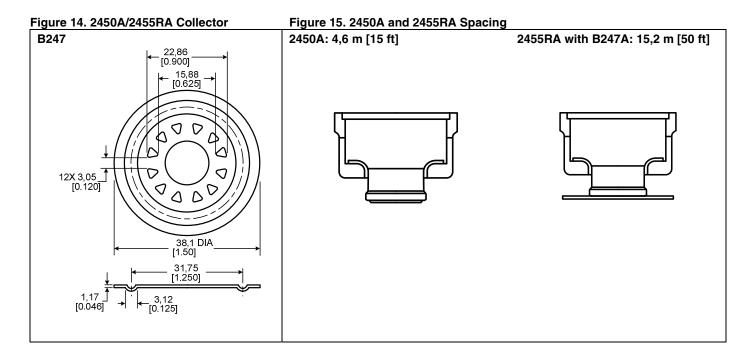
• Please consult Honeywell for tolerances and temperatures not listed.

Characteristic	Parameter
Switch type	SPST
Reset type	automatic
Amperage	3 A
Voltage	120 Vac
Operating temperature range	47,2 °C to 107,2 °C [117 °F to 225 °F]
Environmental exposure range	-0 °C to 150 °C [32 °F to 302 °F]
Materials:	
Base	phenolic
Contacts	gold flash
Terminals	unplated brass, plated brass
Closure	aluminum
Brackets	aluminum
Approvals	UL File S1015 and S1389; Guide USCV2 and TAOZ2, UL Standard #521, #217
Weight	6 g [0.21 oz] (does not include brackets)

## Table 21. 2450A/2455RA Series Specifications

## Figure 13. 2450A/2455RA Basic Dimensions







## Figure 16. 2450R/2455R/2450RC/2455RC/2450HR/2450RCH Series "One Shot" Thermostats

## Table 22. 2450R/2455R/2450RC/2455RC/2450HR/2450RCH Series "One Shot" Standard Temperature Characteristics

Operating Temperature Range	Tolerance °C [°F]
52 °C to 93 °C [125 °F to 200 °F]	5 [8]
94 °C to 121 °C [201 °F to 250°F]	6 [10]
122 °C to 149 °C [251 °F to 300 °F]	7 [12]
150 °C to 177 °C [301 °F to 350 °F]	8 [15]
177 °C to 204 °C [351 °F to 400 °F]	10 [18]
205 °C to 232 °C [401 °F to 450 °F]	11 [20]
232 °C to 260 °C [451 °F to 500 °F]	14 [25]

Characteristic	Parameter
Switch type	SPST
Reset type	One Shot
Amperage	see Table 24
Voltage	120 Vac to 250 Vac
Operating temperature range	2450R/2455R/2450HR/2450RCH: 52 °C to 150 °C [125 °F to 302 °F]
	2450RC/2455RC: 52 °C to 260 °C [125 °F to 500 °F]
Environmental exposure range	2450R/2455R/2450HR/2450RCH: 17.8 °C to 177 °C [0 °F to 350 °F]
	2450RC/2455RC: 17.8 °C to 287 °C [125 °F to 550 °F]
Materials:	
Base	phenolic or ceramic
Contacts	silver alloy
Terminals	unplated brass, plated brass or steel
Closure	aluminum, brass, stainless steel
Brackets	stainless steel
Approvals	UL File E36103, CSA File LR43279
Weight	6 g [0.21 oz] (does not include brackets or lead wires)

## Table 23. 2450R/2455R/2450RC/2455RC/2450HR/2450RCH Series "One Shot" Specifications

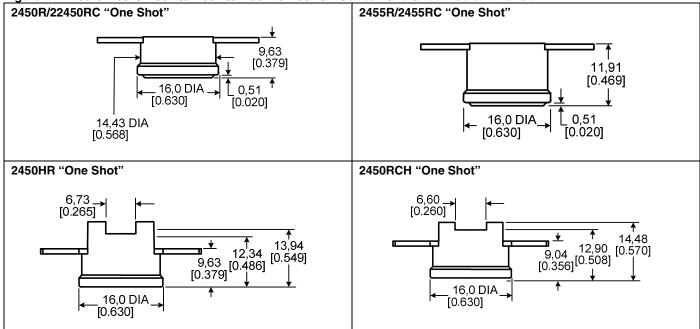
## Table 24. 2450R/2455R/2450RC/2455RC/2450HR/2450RCH Series "One Shot" Contact Ratings

Cycles	120 Vac	240 Vac	277 Vac
1	15 A resistive	10 A resistive	10 A resistive

## Notes:

- Resets below -35 °C [-31 °F].
- Additional contact ratings are available. Please consult Honeywell.

## Figure 17. 2450R/2455R/2450RC/2455RC/2450HR/2450RCH Series "One Shot" Basic Dimension

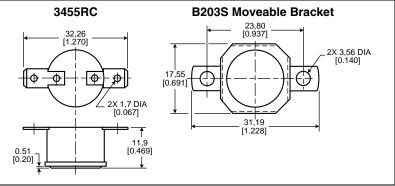


## **REDI-TEMP THERMOSTATS**

REDI-TEMP thermostats are pre-configured as shown and are readily available.

## Figure 18. 3455RC REDI-TEMP Series (See page 6 for specifications and potential applications.)





### Table 25. 3455RC REDI-TEMP Series Open on Rise

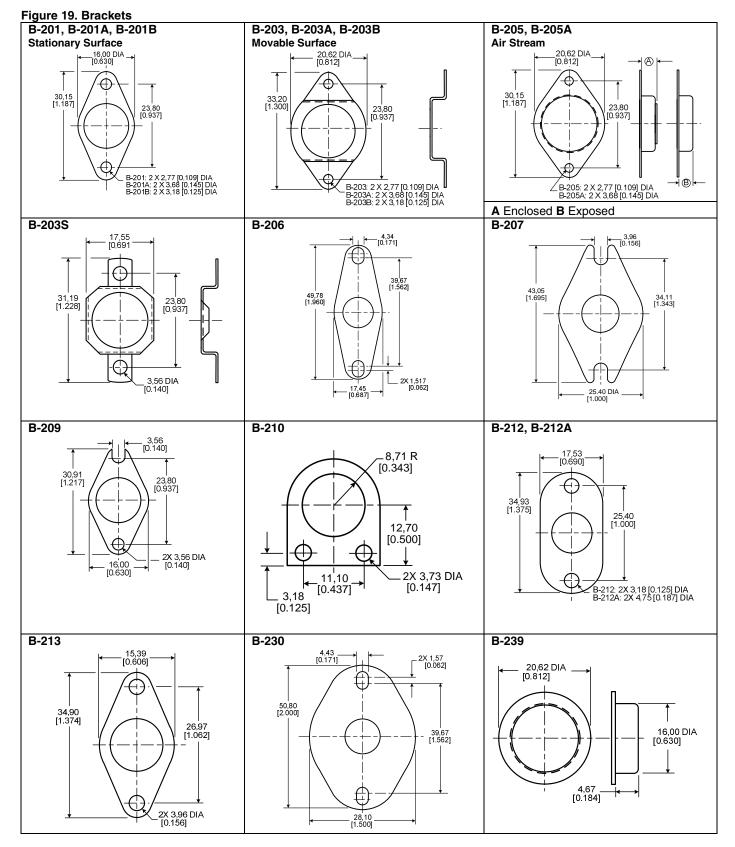
Catalog Listing	Open Temp. °C [°F]	Open Tolerance °C [°F]	Close Temp. °C [°F]	Close Tolerance °C [°F]
3455RC-100-220	18 [65]	±3 [±5]	-1 [30]	±5 [±8]
3455RC-100-221	24 [75]	±3 [±5]	4 [40]	±5 [±8]
3455RC-100-222	29 [85]	±3 [±5]	13 [55]	±5 [±8]
3455RC-100-223	35 [95]	±3 [±5]	18 [65]	±5 [±8]
3455RC-100-224	41 [105]	±3 [±5]	24 [75]	±5 [±8]
3455RC-100-225	46 [115]	±3 [±5]	29 [85]	±5 [±8]
3455RC-100-226	52 [125]	±3 [±5]	35 [95]	±5 [±8]
3455RC-100-227	57 [135]	±3 [±5]	41 [105]	±5 [±8]
3455RC-100-228	63 [145]	±3 [±5]	46 [115]	±5 [±8]
3455RC-100-229	68 [155]	±3 [±5]	52 [125]	±5 [±8]
3455RC-100-230	73 [165]	±3 [±5]	57 [135]	±5 [±8]
3455RC-100-231	79 [175]	±3 [±5]	63 [145]	±5 [±8]
3455RC-100-232	85 [185]	±3 [±5]	68 [155]	±5 [±8]
3455RC-100-233	91 [195]	±3 [±5]	73 [165]	±5 [±8]
3455RC-100-234	96 [205]	±4 [±6]	79 [175]	±5 [±8]
3455RC-100-235	102 [215]	±4 [±6]	85 [185]	±5 [±8]
3455RC-100-236	107 [225]	±4 [±6]	91 [195]	±5 [±8]
3455RC-100-237	113 [235]	±4 [±6]	96 [205]	±5 [±8]
3455RC-100-238	118 [245]	±4 [±6]	102 [215]	±5 [±8]
3455RC-100-239	124 [255]	±4 [±7]	107 [225]	±5 [±8]
3455RC-100-240	135 [275]	±4 [±7]	118 [245]	±5 [±8]
3455RC-100-241	146 [295]	±4 [±7]	129 [265]	±5 [±8]
3455RC-100-242	157 [315]	±6 [±10]	135 [275]	±8 [±15]

## Table 26. 3455RC REDI-TEMP Series Close on Rise

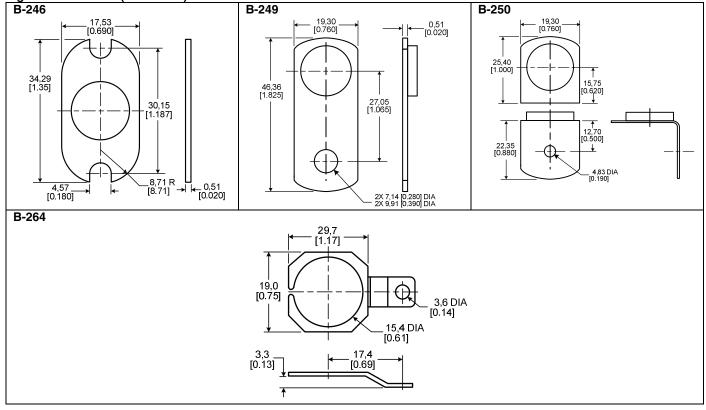
Catalog Listing	Close Temp. °C [°F]	Close Tolerance °C [°F]	Open Temp. °C [°F]	Open Tolerance °C [°F]
3455RC-100-243	21 [70]	±5 [±8]	2 [35]	±3 [±5]
3455RC-100-244	32 [90]	±5 [±8]	16 [60]	±3 [±5]
3455RC-100-245	43 [110]	±5 [±8]	27 [80]	±3 [±5]
3455RC-100-246	54 [130]	±5 [±8]	38 [100]	±3 [±5]
3455RC-100-247	66 [150]	±5 [±8]	49 [120]	±3 [±5]
3455RC-100-248	77 [170]	±5 [±8]	60 [140]	±3 [±5]
3455RC-100-249	88 [190]	±5 [±8]	71 [160]	±3 [±5]
3455RC-100-250	99 [210]	±5 [±8]	82 [180]	±4 [±6]
3455RC-100-251	110 [230]	±5 [±8]	93 [200]	±4 [±6]

Note: Materials and contact ratings are the same as those for 2455RC.

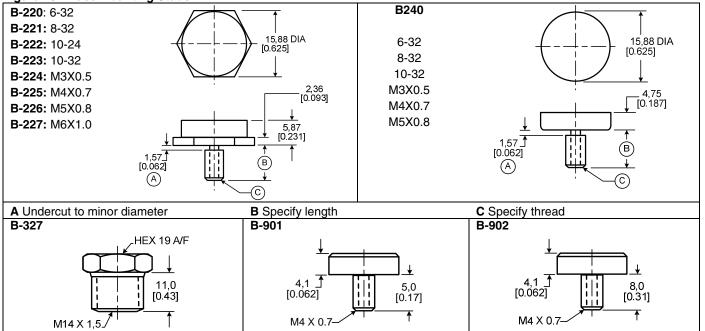
## **MOUNTING HARDWARE**

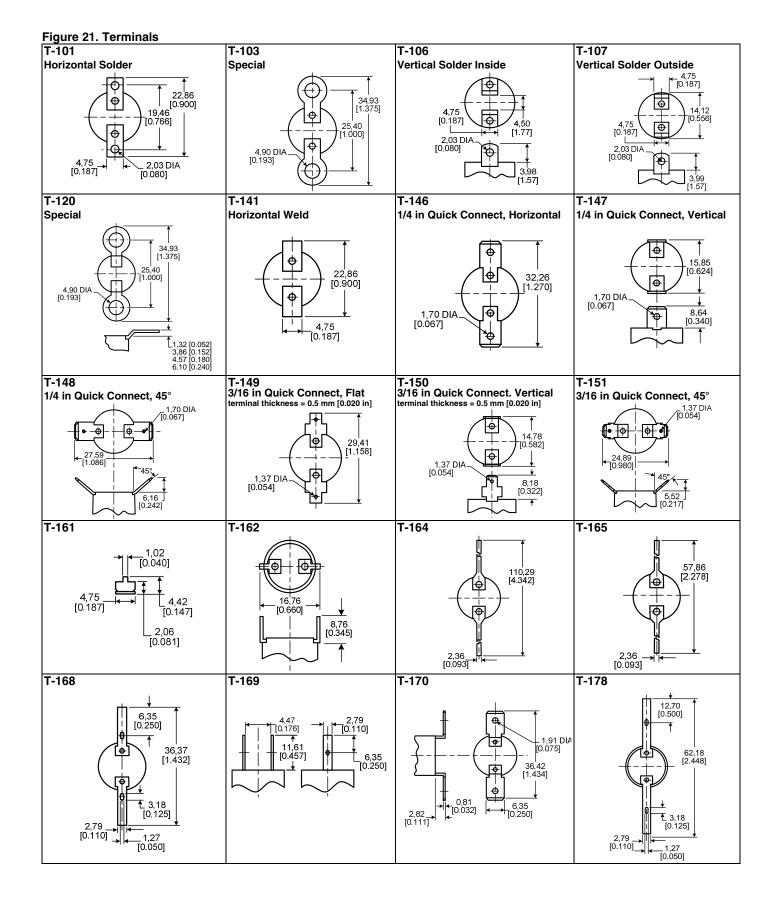


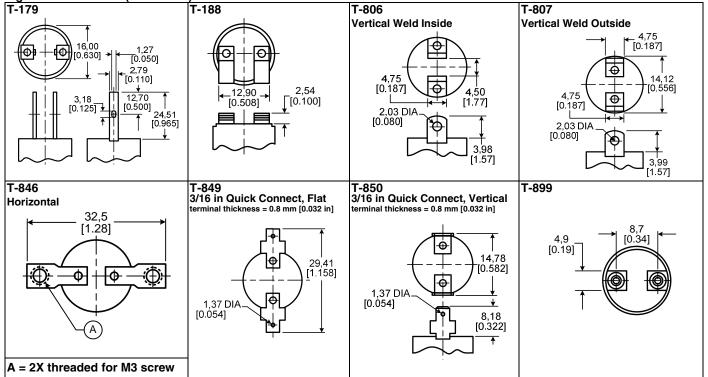
## Figure 19. Brackets (Continued)



### Figure 20. Brass Mounting Studs







## Figure 21. Terminals (Continued)

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