Adjustable Thermostats



111000-00, 111000-01, 111000-02, 111009-00, and 111009-01



111010-00, 111010-01, 111010-02, 111019-00, and 111019-01

Applications

Normally Closed (N.C.)
Normally Closed adjustable thermostats have a red adjustment dial and contacts that open when the air temperature rises above the setpoint. Uses may include regulating heaters or switching signal devices when temperature falls below the setpoint value.

Normally Open (N.O.)
Normally Open adjustable thermostats have a blue adjustment dial and contacts that close when the air temperature rises above the setpoint. Uses may include regulating cooling devices (heat exchangers, filter fans vortex coolers, etc), or switching signal devices when temperature rises above the setpoint value.

Features

- Compact design
- Wide adjustment range
- Color coded temperature dials
- DIN rail mounting
- Push-in terminals for tool-free installation
- For use up to 16,400 ft. [5000 m] altitude

General Specifications	
Switching Difference	12.6°F [7K]
Switching Tolerance	±7°F [±4K]
Sensor Element	Thermostatic bimetal
Contact Type	Snap-action contact
Service Life	>100,000 cycles
Max. Inrush Current	AC 16A for 10 sec.
Max. Operating Voltage	250 VAC
Connection	2-pole terminal, push-in terminal 14 AWG [2.5mm] max. solid/stranded wire
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Variable
Operating / Storage Temperature	-49 to 176°F [-45 to 80°C]
Weight	0.09 lb [40 g]
Protection Type	IP20
Approvals	CE, CSA, VDE, EAC, UL Recognized File No. E164102; RoHS 2 compliant
Note: When using stranded wire, wire-end ferrules (square or trapezoid crimp) must be used.	

Adjustable Thermostats					
Part Number	***Price***	***Contact***	***Setting Range***	***Max. Switching Capacity***	***Drawing Link***
111000-00	$-5i0h:	N.C.	0 to 60°C	15A resistive / 2A inductive at 120 VAC, 10A resistive / 2A inductive at 250 VAC, 30W DC	PDF
111000-01	$--5i0i:		-10 to 50°C		PDF
111000-02	$--5i0j:		20 to 80°C	3A resistive / 2A inductive at 120 VAC, 3A resistive / 2A inductive at 250 VAC, 30W DC	PDF
111009-00	$-5i0k:		32 to 140°F	15A resistive / 2A inductive at 120 VAC, 10A resistive / 2A inductive at 250 VAC, 30W DC	PDF
111009-01	$--5i0l:		14 to 122°F		PDF
111010-00	$-5i0n:	N.O.	0 to 60°C		PDF
111010-01	$-5i0o:		-10 to 50°C		PDF
111010-02	$-5i0p:		20 to 80°C	3A resistive / 2A inductive at 120 VAC, 3A resistive / 2A inductive at 250 VAC, 30W DC	PDF
111019-00	$-5i0q:		32 to 140°F	15A resistive / 2A inductive at 120 VAC, 10A resistive / 2A inductive at 250 VAC, 30W DC	PDF
111019-01	$-5i0s:		14 to 122°F		PDF

Tamperproof Thermostats



011600-00



011610-02



011630-00

Applications

Normally Closed (N.C.)
Normally Closed tamperproof (pre-set) thermostats have a red module and contacts that open when the air temperature rises above the setpoint. Uses may include regulating heaters or switching signal devices when temperature has fallen below the setpoint value.

Normally Open (N.O.)
Normally Open tamperproof (pre-set) thermostats have a blue module and contacts that close when the air temperature rises above the setpoint. Uses may include regulating cooling devices (heat exchangers, filter fans, vortex coolers, etc) or switching signal devices when temperature exceeds the setpoint value.

Features

- Compact design
- Fixed set points
- Color coded modules
- DIN rail mounting

Tamperproof Thermostats Specifications	
Sensor Element	Thermostatic bimetal
Contact Type	Snap-action Contact
Contact Resistance	<20 mΩ
Service Life	>100,000 cycles
Max. Switching Capacity	10A resistive / 2A inductive @ 120VAC 5A resistive / 1.6 A inductive @ 240VAC DC 30W (24-72 VDC)
Max. Inrush Current	AC 16A for 10 sec.
Minimum Load	20 mA (all voltages)
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating Temperature	-40 to 176°F [-40 to 80°C]
Storage Temperature	-49 to 176°F [-45 to 80°C]
Protection Type	IP20
Approvals	CE, VDE, EAC, UL Recognized File No. E164102, RoHS 2 compliant
Note: Tolerance is plus or minus (±) the specified number.	

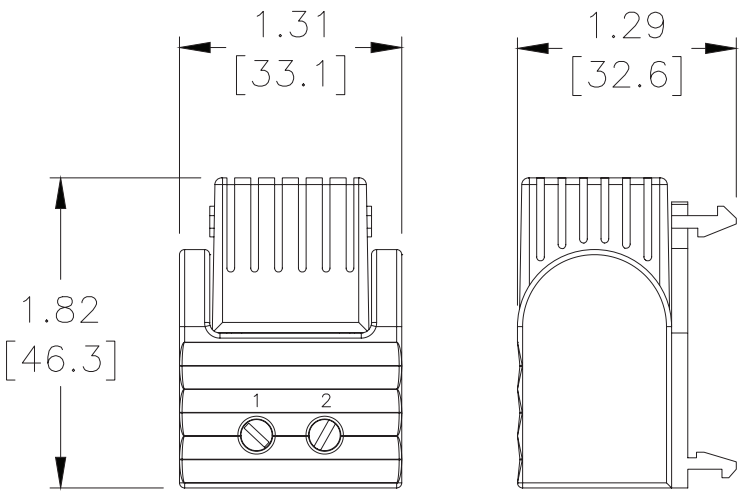
Tamperproof Thermostats

Tamperproof Thermostats							
Type	***Part Number***	***Price***	***Contact***	***Switch-off***	***Switch-on***	***Connection***	***Weight***
Single Thermostats	***011600-00***	$0ad4:	N.C.	59 ± 9°F [15 ± 5°C]	41±9°F [5±5°C]	2-pole terminal for 14 AWG max solid or stranded wire	0.05 lb [23 g]
	011600-01	$0ad5:	N.C.	77 ± 9°F [25 ± 5°C]	59±9°F [15±5°C]		
	011610-00	$1opv:	N.O.	104 ± 12.6°F [40 ± 7°C]	122±11°F [50±6°C]		
	011610-02	$0ad6:	N.O.	77 ± 12.6°F [25 ± 7°C]	95±11°F [35±6°C]		
Dual Thermostats	***011630-00***	$0ad7:	N.C.	59 ± 9°F [15 ± 5°C]	41±9°F [5±5°C]	4-pole terminal for 14 AWG max solid or 16 AWG max stranded wire	0.08 lb [40 g]
			N.O.	104 ± 12.6°F [40 ± 7°C]	122±11°F [50±6°C]		
	011640-00	$0ad8:	N.O.	104 ± 12.6°F [40 ± 7°C]	122±11°F [50±6°C]		
			N.O.	122 ± 12.6°F [50 ± 7°C]	140±11°F [60±6°C]		
	011630-02	$1opx:	N.C.	59 ± 9°F [15 ± 5°C]	41±9°F [5±5°C]		
			N.O.	77 ± 12.6°F [25 ± 7°C]	95±11°F [35±6°C]		
Note: Tolerance is plus or minus (±) the specified number.							

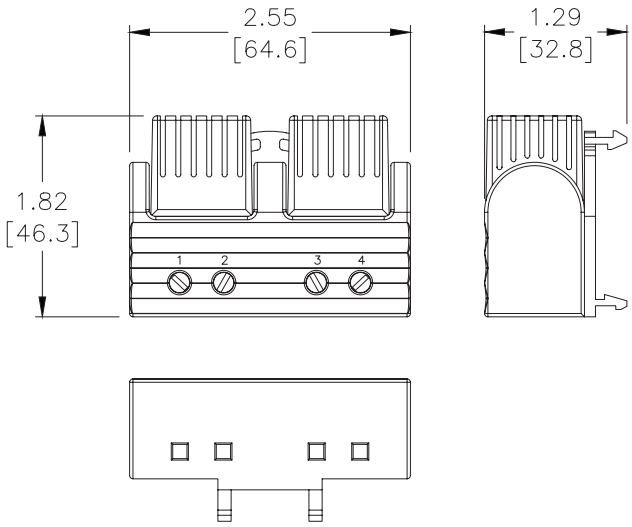
Tamperproof Thermostats

Dimensions

Single Thermostats

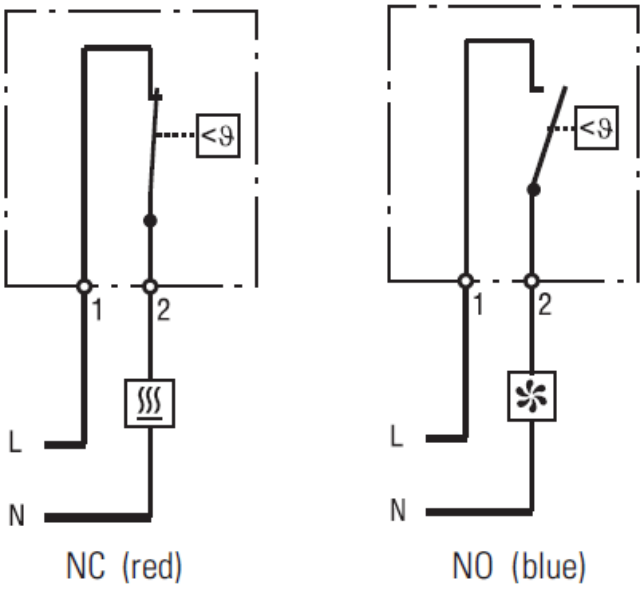


Dual Thermostats

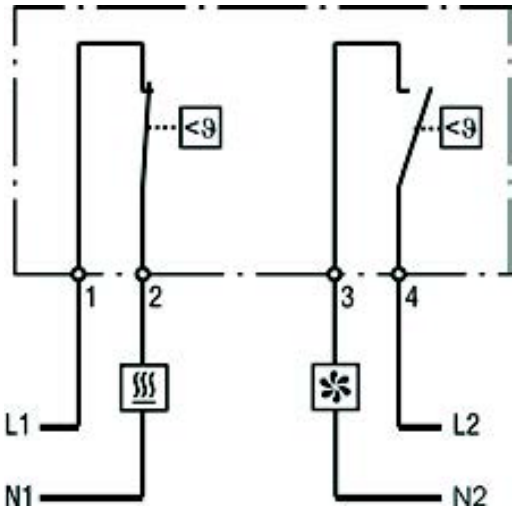


Wiring Diagrams

Single Thermostats - All Models



Dual Thermostats - NC/NO Models



Compact Thumbwheel Thermostats



011159-00 and 011150-00



011169-00 and 011160-00

Applications

Normally Closed (N.C.)
Normally Closed thermostats have a red adjustment thumbwheel and contacts that open when the air temperature rises above the setpoint. Uses may include regulating heaters or switching signal devices when temperature falls below the setpoint value.

Normally Open (N.O.)
Normally Open thermostats have a blue adjustment thumbwheel and contacts that close when the air temperature rises above the setpoint. Uses may include regulating cooling devices (heat exchangers, filter fans, or vortex coolers, etc) or for include switching signal devices when temperature rises above the maximum setpoint.

Features

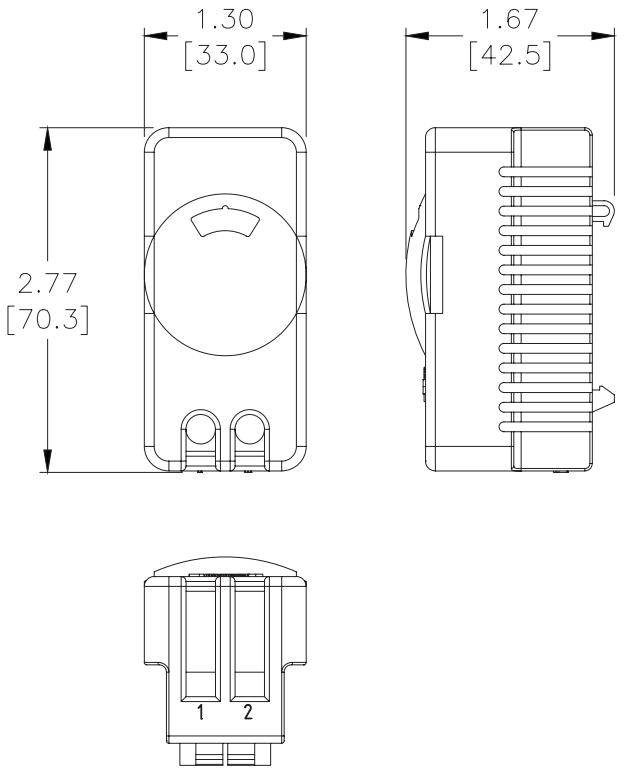
- Compact design
- Adjustable thumbwheel setting
- DIN rail mounting
- SPST regulator with small hysteresis
- Housing design ensures optimized circulation around sensor element

Compact Thumbwheel Thermostats Specifications	
Switching Difference	7°F [4K]
Switching Tolerance	±5.4°F [±3K]
Sensor Element	Thermostatic bimetal
Contact Type	Snap-action contact
Contact Resistance	<10 mΩ
Service Life	>100,000 cycles
Max. Switching Capacity	15A resistive / 2A inductive @ 120 VAC 10A resistive / 2A inductive @ 250 VAC DC 30W (24-72 VDC)
Max. Inrush Current	AC 16A for 10 sec.
Minimum Load	20mA (all voltages)
Connection	2-pole terminal,1 Nm max. clamping torque 14 AWG [2.5mm] max. solid wire or stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating / StorageTemperature	-49 to 176°F [-45 to 80°C]
Weight	1.8 oz [50 g]
Protection Type	IP20
Approvals	Recognized File No. E164102, CE, VDE, EAC, RoHS 2 compliant

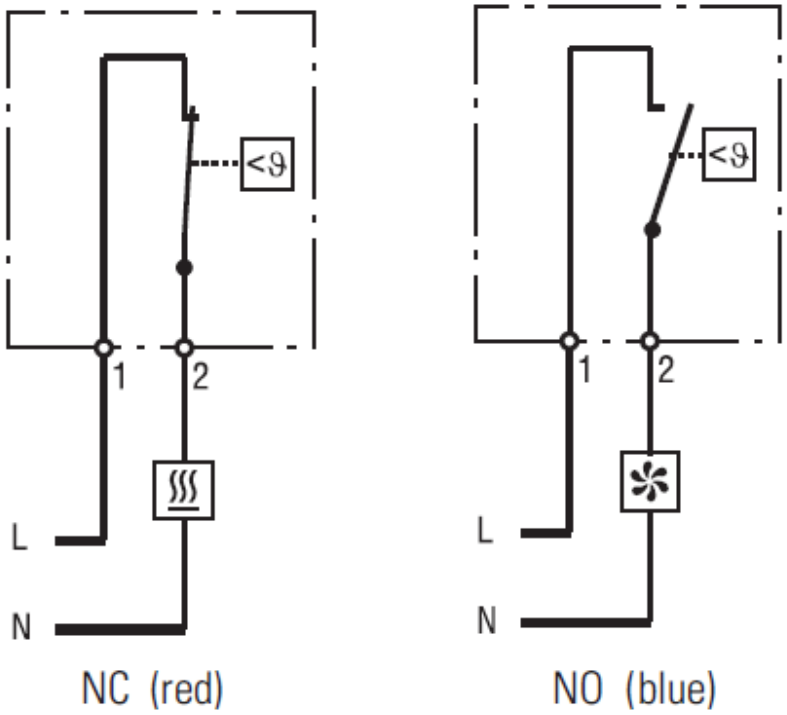
Compact Thumbwheel Thermostats			
Part Number	***Price***	***Contact***	***Setting Range***
011159-00	$;1op]:	N.C.	32 to 140˚F
011150-00	$1opz:		0 to 60˚C
011169-00	$1op_:	N.O.	32 to 140˚F
011160-00	$;1op[:		0 to 60˚C

Compact Thumbwheel Thermostats

Dimensions



Wiring Diagram



Dual Adjustable Thermostats



011720-01



011760-00

Applications

This unit houses two separate thermostats, allowing independent control of heating, cooling or other equipment.

Normally Closed (N.C.)
Normally Closed (N.C.) thermostats have a red adjustment dial and contacts that open when the air temperature rises above the setpoint. N.C. thermostats are used for regulating heaters or for switching signal devices when the temperature falls below the s etpoint temperature.

Normally Open (N.O.)
Normally Open (N.O.) thermostats have a blue adjustment dial and contacts that close when the air temperature rises above the setpoint. N.O. thermostats are used for regulating cooling devices (heat exchangers, filter fans, vortex coolers, etc) or for switching signal devices when the temperature rises above the setpoint temperature.

Features

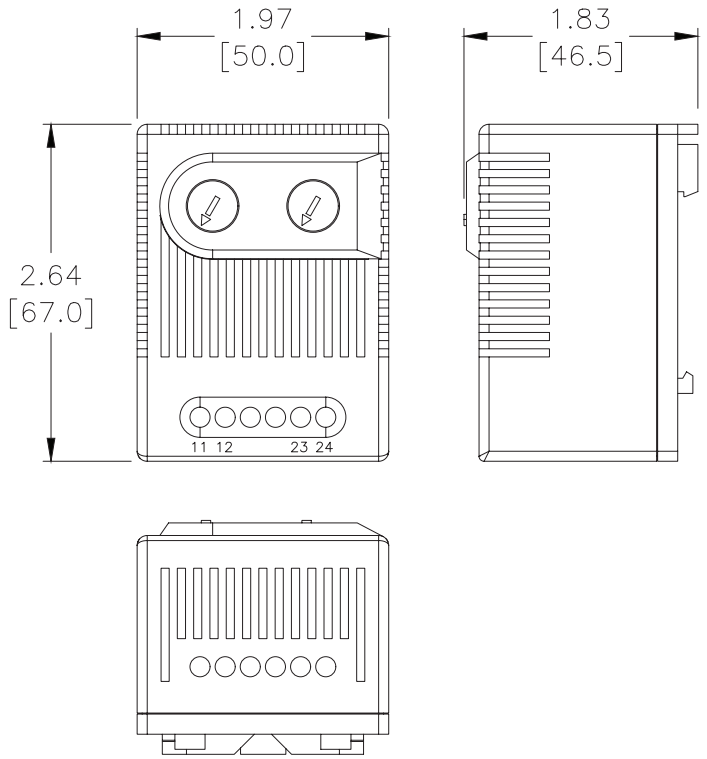
- N.C. and N.O. in one unit
- Compact design
- Separate adjustable temperatures
- Color coded temperature dials
- DIN rail mounting

Dual Adjustable Thermostats Specifications	
Switching Difference	12.6°F [7K]
Switching Tolerance	±7°F [± 4K]
Sensor Element	Thermostatic bimetal
Contact Type	Snap-action contact
Contact Resistance	<10 mΩ
Service Life	>100,000 cycles
Max. Switching Capacity	NC: 10A resistive / 2A inductive @ 250VAC NO: 5A resistive / 2A inductive @ 250VAC 15 resistive / 2A inductive @ 120VAC DC 30W (24-72 VDC)
Max. Inrush Current	AC 16A for 10 sec.
Minimum Load	20mA (all voltages)
Connection	4-pole terminal, 0.5 Nm max. clamping torque; 14 AWG [2.5mm] max. solid wire 16 AWG [1.5mm2] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating / StorageTemperature	-49 to 176°F [-45 to 80°C]
Weight	0.2 lb [90 g]
Protection Type	IP20
Approvals	CE, CSA, VDE, EAC, UL Recognized File No. E164102, RoHS 2 compliant

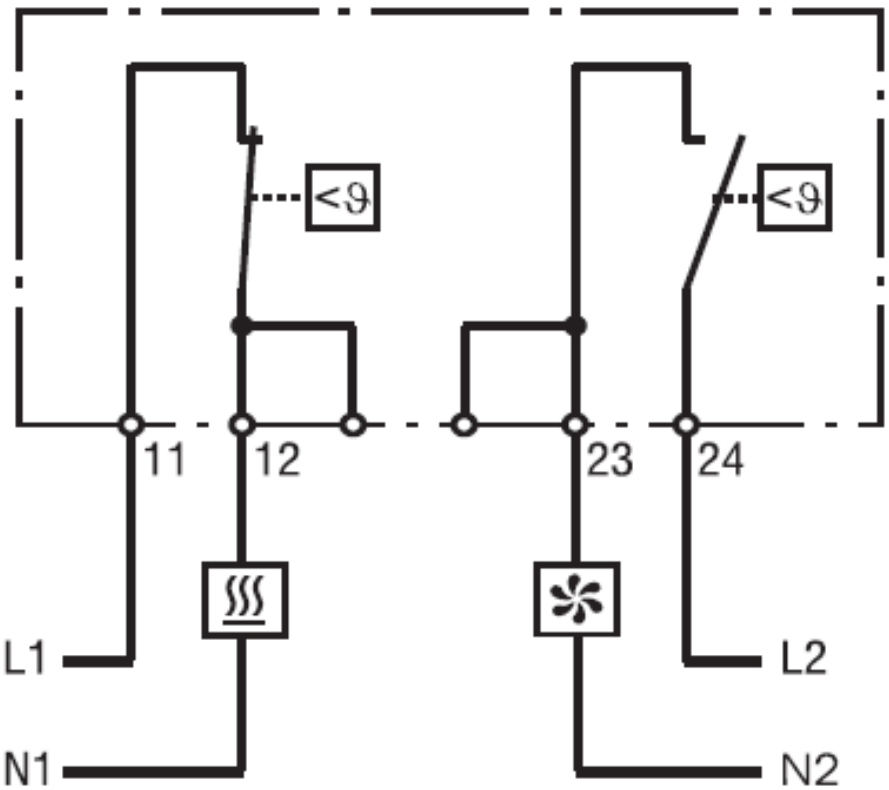
Dual Adjustable Thermostats					
Part Number	***Price***	***Left Contact***	***Setting Range***	***Right Contact***	***Setting Range***
011720-00	$0ad9:	N.C.	0 to 60°C	N.O.	0 to 60°C
011720-01	$0ada:		32 to 140°F		32 to 140°F
011750-00	$1oq0:		-10 to 50°C		20 to 80°C
011750-01	$1oq1:		14 to 122°F		68 to 176°F
011760-00	$1oq2:	N.O.	0 to 60°C		0 to 60°C
011760-01	$1oq3:		32 to 140°F		32 to 140°F

Dual Adjustable Thermostats

Dimensions



Wiring Diagram



FLZ 510/520/530 Small Thermostats

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY



17103000010

The FLZ series of thermostats are available with N.C., N.O., and chang-eover contacts. In combination with enclosure heaters, they serve for temperature control inside the enclosure. In combination with a Filterfans®, they provide additional savings on energy. DIN rail mounted for easy installation.

Features

- FLZ 510: Change-over contact with 3K switching differential (for fan and heater control)
- FLZ 520: N.C. contact (for heater control)
- FLZ 530: N.O. contact (for fan control)
- Bimetal probe type
- DIN rail mounted (35mm, EN 60715)
- UL recognized

Listings

- UL: E251765
- CSA: 1721048

FLZ 510/520/530 Small Thermostats						
Part Number	*Price*	*Model*	*Type of Contact*	*Temp Range*	*Switching Diff*	*Drawing Link*
17103000010	$6#vq:	FLZ 510	change-over	32–140 °F (0–60 °C)	5.4 °F (3K)	PDF
17111000010	$6#vs:	FLZ 520	N.C.	32–140 °F (0–60 °C)	12.6 °F (7K)	PDF
17121000010	$;6#vt:	FLZ 530	N.O.	32–140 °F (0–60 °C)	12.6 °F (7K)	PDF

FLZ 541-543 Twin Thermostats

Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY



17141000010

The FLZ 541-543 series integrates two independently switchable thermostats in one compact housing. Unlike thermostats with changeover contacts, connected devices can be switched in different temperature ranges. DIN rail mounted for easy installation.

Features

- FLZ 541: N.C./N.O. contacts (for fan and heater control)
- FLZ 542: N.C./N.C. contacts (for heaters/alarm)
- FLZ 543: N.O./N.O. contacts (for fans/alarm)
- Bimetal probe type; IP20
- DIN rail mounted (35mm, EN 60715)
- UL recognized

Listings

- UL: E251765
- CSA: 1721048

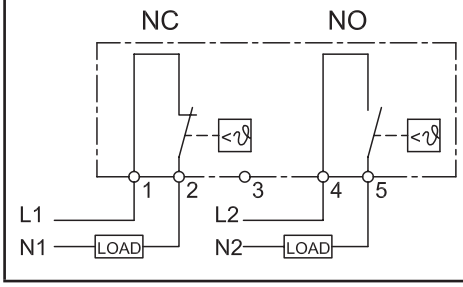
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FLZ 541-543 Twin Thermostats

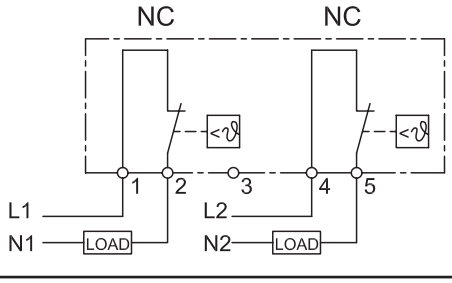
Part Number	Price	Model	Contact 1	Contact 2	Temp Range	Switching Diff	Drawing Link
17141000010	$6#vu:	FLZ 541	N.C.	N.O.	32–140 °F (0–60 °C)	12.6 °F (7K)	PDF
17142000010	$6#vy:	FLZ 542	N.C.	N.C.	32–140 °F (0–60 °C)	12.6 °F (7K)	PDF
17143000010	$6#vz:	FLZ 543	N.O.	N.O.	32–140 °F (0–60 °C)	12.6 °F (7K)	PDF

FLZ 541-543 Wiring Diagrams

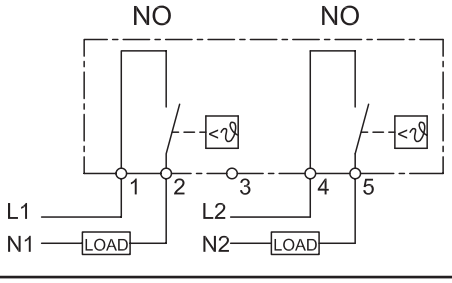
FLZ 541



FLZ 542



FLZ 543



Smart Sensor For Temperature and Humidity



014202-00

Applications

The compact Smart Sensor electronically measures temperature and humidity and converts measured data into a standardized analog 4 to 20 mA signal or an IO-Link protocol signal. The converted value signals can be used and processed by a control monitoring unit, e.g., a PLC control (***IO-Link devices require an IO-Link Master to communicate with a PLC***). The Smart Sensor is suitable for use in a wide variety of applications and can be used even in harsh environmental conditions, such as wind power.

Features

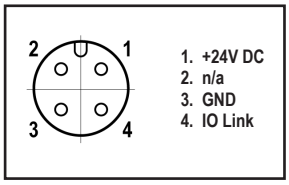
- Analog/I/O-Link digital interface
- Compact size
- DIN rail and/or screw mount
- High accuracy
- Quick connection (M12 plug-in connector)
- Wide temperature and humidity range
- Various application areas (IEC 61010-1/DIN EN 61010-1)

Listings

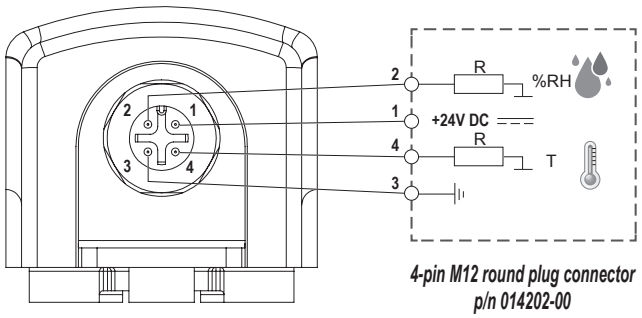
- UL Recognized File E500143

Smart Sensors			
Part Number	***Price***	***Output***	***Drawing Link***
014202-00	$-04I7x:	4-20 mA, 2 channel	PDF
014112-00	$-05i16:	I/O-Link	PDF

General Specifications	
Operating Voltage	24 VDC
Temperature Measuring Range	-40 to 140°F [-40 to 60°C] ±1 K tolerance
Humidity Measuring Range	0 to 100 % RH ±4 % RH tolerance
Max. Reaction Time	3 minutes.
Load Resistance (External)	≤ 500 Ω
Max. Power Consumption	1.8 W (typically 0.4 W)
Connection	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded
Electrical Protection	Reverse-polarity, short circuit, overvoltage protection
Mounting	Clip for 35mm DIN rail, EN 60715 and screw mount (M5, not included)
Housing	Plastic, UL94 V-0, light gray
Dimensions	5.5 x 1.6 x 1.5in [140 x 40 x 38mm]
Weight	Approx. 1.8 oz. [50g]
Mounting Position	Vertical (connection on top)
Operating Temperature	-40 to 158°F [-40 to 70°C]
Storage Temperature	-40 to 185°F [-40 to 85°C]
Operating / Storage Humidity	Max. 90% RH (non-condensing)
Protection Class	III (SELV)
Protection Type	IP20
Approvals	EAC, CE, VDE, UL File Recognized File E500143), (acc. to IEC 61010-1 / DIN EN 61010-1)



4-pin M12 round plug connector p/n 014112-00



4-pin M12 round plug connector p/n 014202-00

Mechanical Thermostats



Applications

The STEGO mechanical thermostat is used for controlling heating and cooling equipment, filter fans or signal devices where a higher° of sensing accuracy is required. An integrated resistor (RF) can be connected to improve the switch temperature difference (see Option note). The thermostat registers the surrounding air and can switch both inductive and resistive loads via snap-action contact.

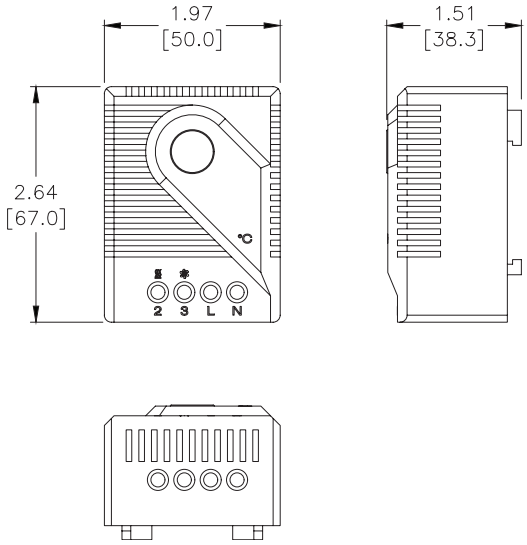
Features

- Compact design
- Adjustable setting dial
- DIN rail mounting
- High switching capacity

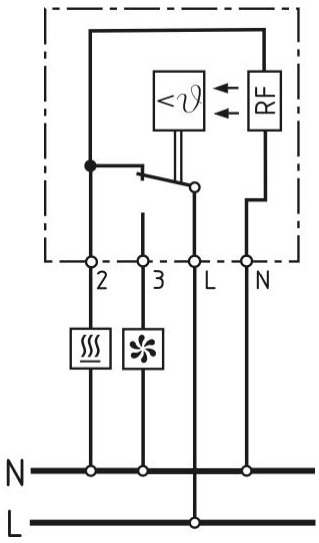
Mechanical Thermostats			
Part Number	***Price***	***Operating* Voltage***	***Setting Range***
011700-00	$1opy:	230VAC	5 to 60°C
011700-01	$;1op!:		40 to 140°F
011709-00	$1op?:	120VAC	40 to 140°F
011709-01	$;1op,:		5 to 60°C
Note: *Voltage only needs to be specified if the optional use of the RF register is desired.			

Mechanical Thermostats Specifications	
Switching Difference	9°F [5K]
Switching Tolerance	-5.4/+3.6°F [-3/+2°K]
Sensor Element	Thermostatic bimetal
Contact Type	SPDT / change-over contact
Contact Resistance	<10 mΩ
Service Life	>100,000 cycles
Max. Switching Capacity, NC	10A resistive / 4A inductive @ 120VAC 10A resistive / 4A inductive @ 250VAC DC 30W (24-72 VDC)
Max. Switching Capacity, NO	5A resistive / 2A inductive @ 120VAC; 5A resistive / 2A inductive @ 250VAC; DC 30W (24-72 VDC)
Connection	4-pole terminal, 0.5 Nm max. wire or clamping torque 14 AWG [2.5mm²] max. solid wire or stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating / StorageTemperature	-49 to 149°F [-45 to 65°C]
Weight	1.8 oz [50 g]
Protection Type	IP20
Approvals	Recognized File No. E164102, CE, EAC, RoHS 2 compliant
Note: If the Normally Closed contact is used, the switch temperature difference could be reduced by connecting terminal "N" (RF heating resistor). It causes the thermal feedback, which is subject to surrounding conditions and thus has to be determined for each application.	

Dimensions



Wiring Diagram



Electronic Thermostats



011900-00

Applications

- Used for regulating high-performance DC 24V equipment
- Heating or cooling equipment, and signal devices can be switched via the SPDT (change-over) contact

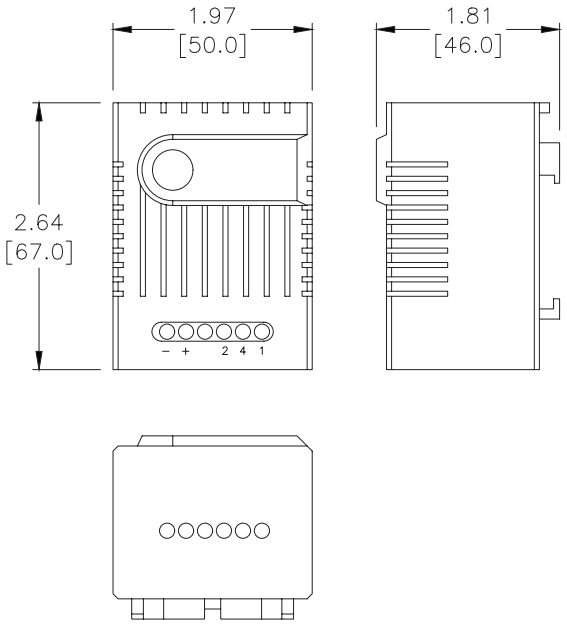
Features

- Compact design
- Adjustable setting dial
- DIN rail mounting
- Low hysteresis
- Wide adjustment range

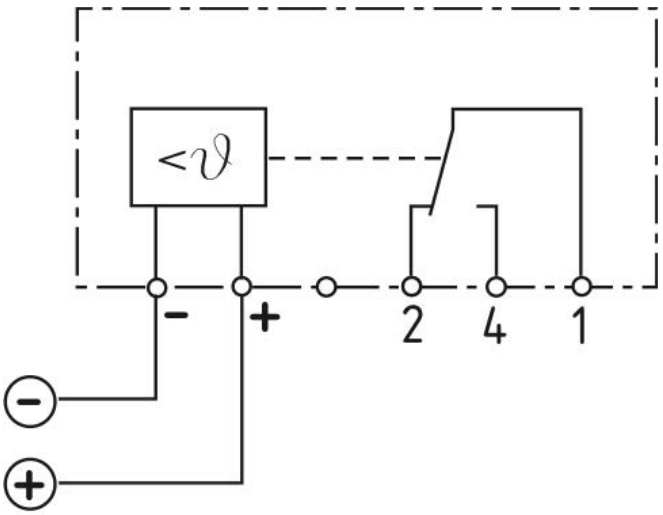
Electronic Thermostat			
Part Number	***Price***	***Operating Voltage***	***Setting Range***
011900-00	$1oq6:	DC 24V (DC 20-28V)	0 to 60°C
011900-01	$1oq7:		32 to 140°F

Electronic Thermostats Specifications	
Switching Difference	5.4°F [3K]
Switching Tolerance	±1.8°F [±1K]
Sensor Element	PTC
Contact Type	SPDT / change-over contact
Service Life	>100,000 cycles
Max. Switching Capacity	16A @ DC 28V
Max. Inrush Current	DC 16A
Connection	5-pole terminal, 0.5 Nm max. clamping torque 14 AWG [2.5mm²] max. solid wire 16 AWG [1.5mm²] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating / StorageTemperature	14 to 140°F [-10 to 60°C] / -49 to 176°F [-45 to 80°C]
Operating / Storage Humidity	Max 95% RH (non-condensing)
Weight	2.4 oz [70 g]
Protection Type	IP20
Approvals	CE, EAC, RoHS 2 compliant

Dimensions



Wiring Diagram



Mechanical Hygrostats



Applications

- Designed to control relative humidity inside enclosures
- When connected to an enclosure heater (dehumidifier), it will energize the heater at the humidity set point in order to raise the dew point
- Helps prevent damage and malfunction of electronic components caused by condensation and corrosion
- Can be used to control heaters, cooling fans, warning lights, or other devices

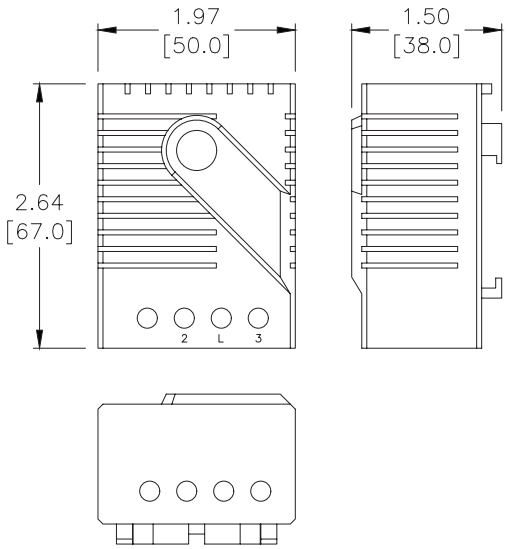
Features

- Efficient condensation control
- Adjustable thumbwheel setting
- High switching capacity
- DIN rail mountable

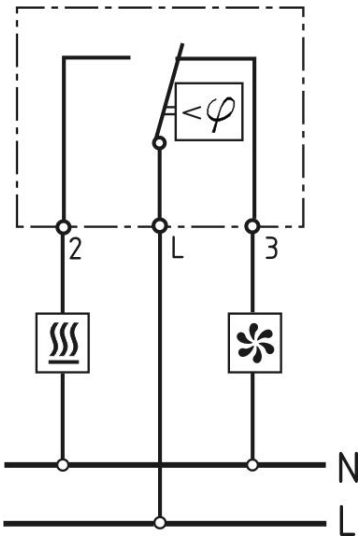
Mechanical Hygrostat		
Part Number	***Price***	***Setting Range***
012200-00	$01oq8:	35 to 95% RH

Mechanical Hygrostats Specifications	
Switching Difference	4% RH at 50% RH
Switching Tolerance	±3% RH
Permissible air velocity	50 ft/sec [15 m/s]
Contact Type	SPDT / change-over contact
Service Life	>50,000 cycles
Min. Switching Capacity	100mA @ AC/DC 20V
Max. Switching Capacity	5A resistive @ AC 250V DC 20W
Connection	3-pole terminal, 0.5 Nm max. clamping torque 14 AWG [2.5mm²] max. solid wire 16 AWG [1.5mm²] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating / StorageTemperature	32 to 140°F [0 to 60°C] / -40 to 140°F [-40 to 60°C]
Operating / Storage Humidity	Max. 95% RH (non-condensing)
Weight	2.0 oz [60 g]
Protection Type	IP20
Approvals	Recognized File No. E164102, CE, EAC, RoHS 2 compliant

Dimensions



Wiring Diagram



Electronic Hygrostats



012450-00 and 012459-00

Applications

The electronic hygrostats (humidistats) sense the relative humidity in an enclosure and turn on a heater at the set point. This helps prevent the formation of condensation in the enclosure. The integrated LED is lit when the connected device is in operation.

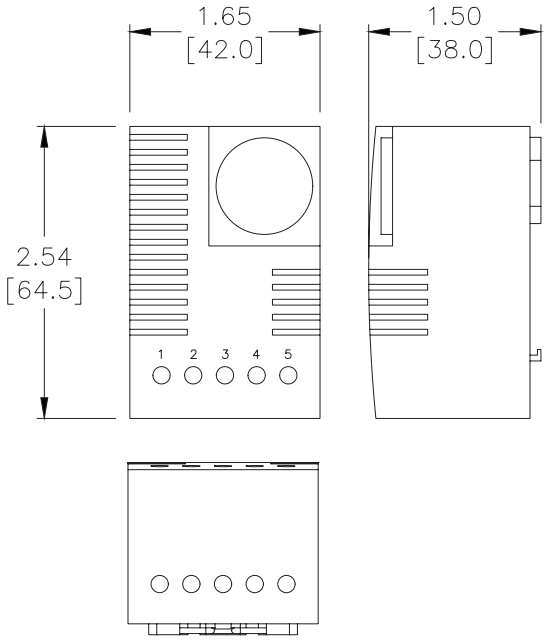
Features

- Adjustable relative humidity setpoints
- Compact design
- High switching capacity
- Visual function display
- DIN rail mounting

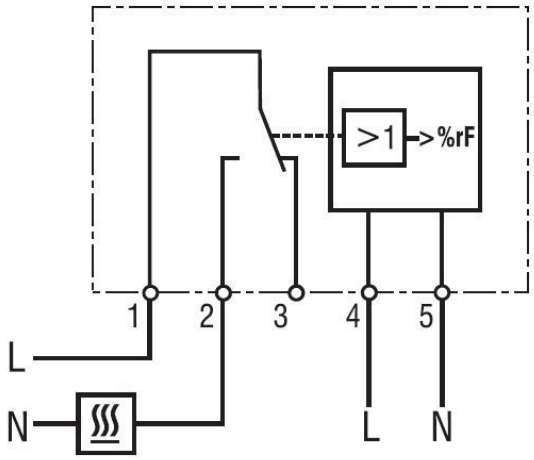
Electronic Hygrostats			
PartNumber	***Price***	***OperatingVoltage***	***SettingRange***
012450-00	$0adc:	230VAC	40% to 90% RH
012459-00	$0add:	120VAC	40% to 90% RH
012460-00	$1oqa:	230VAC	65% RH preset
012469-00	$1oqb:	120VAC	65% RH preset

Electronic Hygrostats Specifications	
Switching Difference	5% RH at 77°F [25°C] and 50% RH
Switching Tolerance	±1% RH
Reaction Time	Approximately 5 seconds
Contact Type	SPDT / change-over contact (relay)
Service Life	50,000 cycles
Max. Switching Capacity(relay output)	8A resistive / 1.6 A inductive @ AC 120V 8A resistive / 1.6 A inductive @ AC240V 100W @ DC 24V
Max. Inrush Current	AC 16A for 10 sec.
Connection	5-pole terminal, 0.5 N m max. clamping torque 14 AWG [2.5mm] max. solid wire 16 AWG [1.5mm2] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating Temperature	32 to 140°F [0 to 60°C]
Storage Temperature	-4 to 176°F [-20 to 80°C]
Max. Storage Humidity	90% RH (non-condensing)
Weight	0.14 lb [65 g]
Protection Type	IP20
Approvals	UL Recognized File No. E164102, CE, VDE, EAC, RoHS 2 compliant

Dimensions



Wiring Diagram



Electronic Hygrotherms



012309-00

Applications

The electronic hygrotherms sense the ambient temperature and relative air humidity (RH). Depending on the selected contact combination, the hygrotherm will turn a connected device on or off if either the temperature is below or the humidity is above the set points. The integrated LED in each adjustment knob is lit to indicate the active function.

Features

- Efficient temperature and humidity control
- Compact design
- High switching capacity
- Optical function display
- DIN rail mounting
- Current draw of fewer than 10 mA

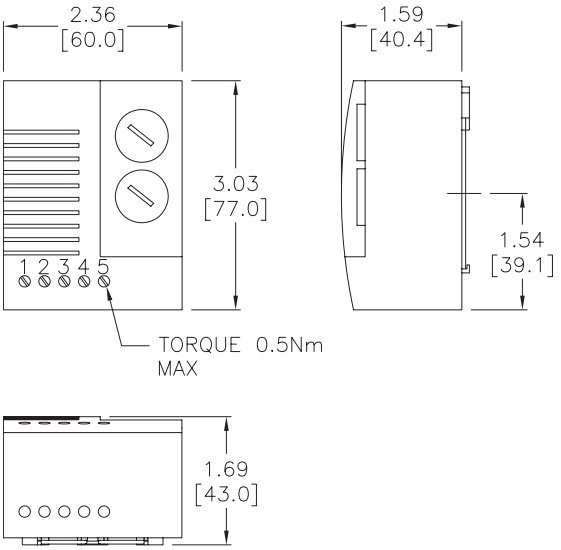
Electronic Hygrotherms DIN Rail Mounted

PartNumber	Price	Settings Ranges	
		Temp	Humidity
012309-00	$00adb:	32 to 140°F	50% to 90% RH
012300-00	$01oq9:	0 to 60°C	50% to 90% RH

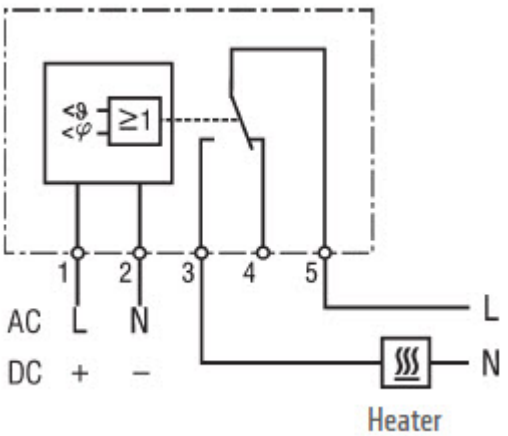
Electronic Hygrotherms Specifications

	Temperature	Humidity
Switching Difference	3.6°F [2K] at 77°F [25°C] and 50% RH	4% RH at 77°F [25°C] and 50% RH
Switching Tolerance	+/- 1K	+/- 1% RH
Operating Voltage	100-240 VAC, 50/60 Hz	
Response Time - Humidity	Approximately 5 seconds	
Contact Type	Change-over contact (relay)	
Contact Resistance	<10 mΩ	
Service Life	UL; 30,000 cycles VDE; 15,000 cycles	
Max. Switching Capacity	10A resistive / 1.6 A inductive @ 240VAC 0.6A @ 60VDC*	
Max. Inrush Current	AC 30A for 10 sec.	
Connection	5-pole terminal, 0.5 Nm max. clamping torque 14 AWG [2.5mm] max. solid wire 16 AWG [1.5mm2] max. stranded wire with wire end ferrule	
Housing	Plastic, UL 94V-0, light gray	
Mounting	Clip for 35mm DIN rail, EN 60715	
Mounting Position	Vertical	
Operating / Storage Temperature	-40 to 140°F [-40 to 60°C]	
Storage Humidity	max. 95% RH (non-condensing)	
Weight	0.22 lb [100 g]	
Protection Type	IP20	
Approvals	CE, UL Recognized File No. E164102, VDE, RoHS 2 compliant	
Note: *Not UL confirmed.		

Dimensions



Wiring Diagram



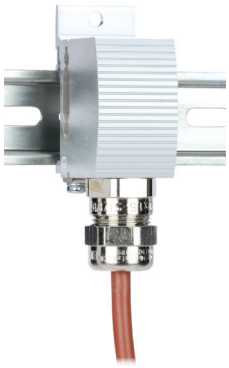
Hazardous Area Thermostats

Applications

Compact, small mechanical thermostat offering a high response accuracy, small switching difference, and a very long service life (switching cycles). This thermostat of temperature class T6 (185°F/85°C max.) is utilized for the regulation of heaters deployed in hazardous areas. High current performance allows direct control of a heater.

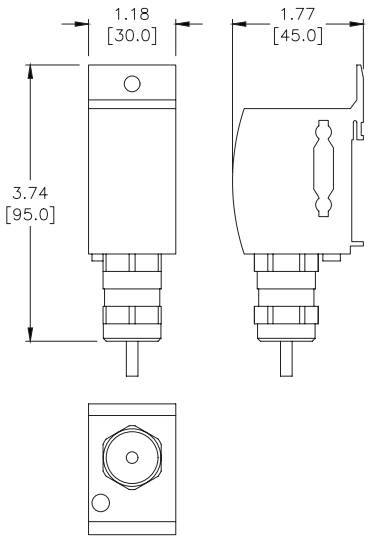
Features

- For use in hazardous areas
- High switching capacity
- Compact design
- "Pre-set" temperatures
- Ready to use with strain relief
- Temperature class T6
- DIN rail mounting



011850-00

Dimensions



Hazardous Area Thermostat Specifications	
Temperature Class	T6
Ex Protection Type Ex 11 2 GD Gases	Ex db IIC T6 Gb
Dusts	Ex tb IIIC T85 °C Db IP66
Ambient Temperature	-76 to 185°F [-60 to 85°C]
Sensor Element	Thermostatic bimetal
Service Life	> 100 000 cycles
Max. Switching Capacity	AC 250V 10A* DC 24V 1A
Min. Switching Capacity	DC 1.5V 5mA
Max. Inrush Current	AC 16A for 12 sec.
Connection	Silicone cable (halogen-free) 3 x 18 AWG (0.82mm²), length 3ft [1m]
Housing	aluminum, silver anodized
Mounting	Clip for 35mm DIN rail, EN 60715 M5 screw mounting, optional sideways mounting
Mounting Position	Variable
Operating / Storage Humidity	max. 90 % RH (non-condensing)
Storage Temperature	-76 to 185°F [-60 to 85°C]
Weight	0.66 lb [300 g]
Protection Type / Protection Class	IP66 / I (grounded)
Approvals	EPS 16 ATEX 1 118 X IECEx EPS 16.0054X EAC, CE 0081 Ex 11 2 GD
Note: *Currents above 4 A affect the switching difference.	

Hazardous Area Thermostat				
PartNumber	***Price***	***Contact Type***	***Switch Temperature***	***Switching Difference (Hysteresis)***
011850-00	$01oq4:	Normally Closed	59°F ±5°F [15°C ± 3K]	9°F ± 5°F / tolerance [5°C ± 3K]
011851-00	$01oq5:	Normally Closed	77°F ±5°F [25°C ±3K]	9°F ± 5°F / tolerance [5 °C ± 3K]