

# Installation & Maintenance Instructions

## UE 54 SERIES

Pressure Switches Types:

Enclosed: J54, J54A, H54

Skeleton: J54S, J54AS, H54S



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# 54 Series

Pressure Switches

Types:

Enclosed: J54, J54A, H54

Skeleton: J54S, J54AS, H54S

## Installation and Operation Instructions

Please read all instructional literature carefully and thoroughly before starting.

Refer to the final page for the Warranty.

### GENERAL

**⚠ MISUSE OF THIS PRODUCT MAY CAUSE DAMAGE TO EQUIPMENT OR PERSONAL INJURY. THESE INSTRUCTIONS MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE DEVICE IS INSTALLED.**

**ℹ PRIOR TO INSTALLATION, CHECK THE WETTED PARTS MATERIAL FOR COMPATIBILITY TO THE PROCESS MEDIA.**

54 Series pressure switches are activated when a bellows, diaphragm or piston sensor responds to a pressure change. This response, at a predetermined set point, actuates one or two snap-acting switch(es), converting the pressure signal into an electrical signal. Control set point may be varied by turning the adjustment hex on "J" types or a reference adjustment dial on "H" types. (See Adjustment -PART II).

**ℹ PROOF PRESSURE \* LIMITS LISTED ON NAMEPLATE MUST NEVER BE EXCEEDED, EVEN BY SURGES IN THE SYSTEM. OCCASIONAL OPERATION OF UNIT UP TO PROOF PRESSURE IS ACCEPTABLE, E.G., START-UP AND TESTING. EXCESSIVE CYCLING AT MAXIMUM PRESSURE LIMIT COULD REDUCE SENSOR LIFE. CONTINUOUS OPERATION SHOULD NOT EXCEED THE DESIGNATED OVER RANGE \*\*.**

\* Proof Pressure - the maximum pressure to which a pressure sensor may be occasionally subjected, which causes no permanent damage (e.g., start-up, testing). The unit may require re-gapping (consult factory for re-gapping procedure).

\*\* Over Range Pressure - the maximum pressure to which a pressure sensor may be continuously subjected without causing damage and maintaining set point repeatability.

**⚠ THIS PRODUCT DOES NOT HAVE ANY FIELD REPLACEABLE PARTS. ANY SUBSTITUTION OF COMPONENTS SHALL INVALIDATE AGENCY CERTIFICATION(S).**

**ℹ DEVICE MUST NOT BE ALTERED OR MODIFIED AFTER SHIPMENT. CONSULT UE IF MODIFICATION IS NECESSARY.**

Please refer to product datasheet at [www.ueonline.com](http://www.ueonline.com) for product specifications.

### Part I - Installation

#### Mounting

- ⚠
- Adjustable Wrench
- Screwdriver

**⚠ INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT INSTALL DEVICE IN AMBIENT TEMPERATURES THAT EXCEED PUBLISHED LIMITS ON THE NAMEPLATE.**

**ℹ DEVICE SHOULD BE MOUNTED TO PREVENT MOISTURE FROM ENTERING THE ENCLOSURE. VERTICAL MOUNTING IS RECOMMENDED.**

**ℹ CONSIDER THE USE OF A PRESSURE SNUBBER IF SEVERE PRESSURE SURGES ARE EXPECTED.**

**ℹ FOR PRESSURE MODELS, MOUNT VIA PRESSURE CONNECTION. ALWAYS USE A WRENCH ON PRESSURE CONNECTION HEX (SEE FIGURE 1). DO NOT TIGHTEN BY TURNING THE ENCLOSURE AS THIS WILL DAMAGE THE SENSOR AND WEAKEN WELDED JOINTS.**

**Pipe Mounting:** Mount the switch directly to the line via the NPT pressure connection.

**Vertical Surface Mount:** Two holes for #10 screws are provided in the bracket plate (see Figure 1 for J54, J54AS & H54S. See Dimensions page for J54, J54A & H54).

#### Wiring

**⚠ DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. MAXIMUM RECOMMENDED WIRE SIZE IS 14 AWG AND RECOMMENDED TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 7 TO 17 IN-LBS.**

**⚠ DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE EVEN ON THE FIRST CYCLE.**

Bring wires up to the terminals from the rear, so that wires lay along insulator. The three switch terminals are clearly labeled “common,” “normally open” and “normally closed”.

CLEARANCE FOR #6 SCREW 2 PLACES

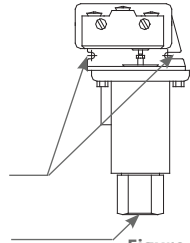


Figure 1

For devices with protective covers:

- 1 Remove cover by removing the one captive screw located on the front of the cover.
- 2 **Conduit Connection:** A 7/8" diameter hole has been provided in the bracket plate for installing a conduit fitting.

For optional switches supplied with leadwires, the following color coding applies:

	Manual Reset (Option 1530)
	SPDT
Common	Violet
Normally Open	Blue
Normally Closed	Black

## Part II - Adjustments



- 1/4" open end wrench
- Flatblade screwdriver

### Single Switch Devices J54, J54S (no reference dial)

- 1 Mount switch onto a calibrated pressure source (or vacuum source for model 22 and 126).
- 2 Secure fitting to source tight enough to prevent leaks. Apply tightening torque to the fitting only.
- 3 Use pipe sealant or Teflon® tape to ensure tight seal.
- 4 Using a 1/4" open end wrench, turn main adjustment screw counterclockwise to lower set point or clockwise to raise set point. (See Figure 2).

### H54, H54S (with reference dial)

- 1 Turn the reference dial to desired set point by aligning setting on dial with dowel pin. (See Figure 3).



**ON DUAL SWITCH UNITS, “LOW SET” SWITCH MUST ALWAYS BE SET EQUAL OR BELOW THE “HIGH SET” SWITCH (SEE FIGURE 4).**

### Dual Switch Devices

Follow steps 1-3 for J54 & J54S then continue with adjustment for High and Low Set below.

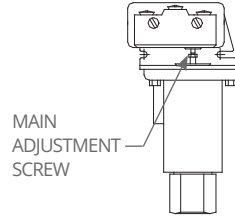


Figure 2

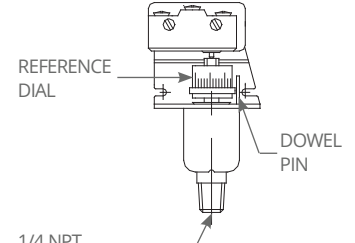


Figure 3

### High Set

- 1 Using a 1/4" open end wrench, slowly turn the main adjustment screw counterclockwise until the “High Set” switch transfers. If switch does not transfer, turn the main adjustment screw clockwise until the switch transfers, and then counterclockwise until it transfers again. The “High Set” switch should now transfer on “pressure rise.”
- 2 If it is desired that the switch transfer on “pressure fall,” turn the main adjustment screw clockwise until the switch transfers again (see Figure 4).

### Low Set

- 1 Using a 1/4" open end wrench, slowly turn the main adjustment screw clockwise until the switch transfers. If switch does not transfer, turn the low set adjustment screw counterclockwise until the switch transfers, and then clockwise until it transfers again. The “Low Set” switch is now set to actuate on “pressure fall.”
- 2 If it is desired that the “Low Set” switch transfers on “pressure rise,” turn the low set adjustment screw counterclockwise until the switch transfers (see Figure 4).

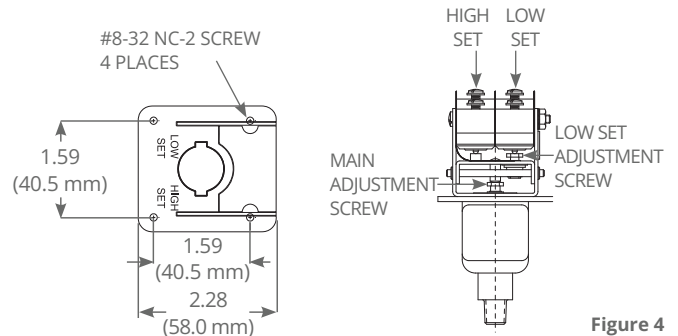


Figure 4

### Fine Adjustment

- 1 If it is necessary to “fine adjust” the “High Set” setting, raise the pressure source to a value slightly higher than the “High Set” pressure.
- 2 Note the pressure at which the switch transfers (on rise).
- 3 Lower the pressure source and note when switch transfers again (on fall).
- 4 Turn the main adjustment screw clockwise to raise or counterclockwise to lower the settings.
- 5 If necessary, perform the same “fine adjustment” procedure outlined prior for the “Low Set” switch.

## Manual Reset Button Option

Types J54 or H54 with option code 1530 incorporate a snap switch which when actuated, remains actuated until the pressure decreases and the reset button (located on top of the control) is manually depressed to reset the switch.

## Adjustable Deadband Option

Control types with option code 1520 or models 16008 and 16009 incorporate a snap switch with internal adjustment wheel. Turning this wheel raises or lowers the pressure rise set point. The fall set point remains constant.

To use the adjustable deadband switch:

- 1 Determine set point and deadband values. For example, a rising set point of 20 psi with a deadband value of 6 psi.
- 2 Set the falling set point at desired deadband value (determined by subtracting the deadband value from the desired set point) using the standard adjustment screw as outlined above. Using the example from step 1,  $20 - 6 = 14$ , so you would set the fall set point at 14 psi. This is your constant.
- 3 Set your deadband by turning the adjustment wheel clockwise to raise or counterclockwise to lower the set point. Using the example from step 1, turn the wheel clockwise or counterclockwise until 20 psi is achieved. This is your set point.

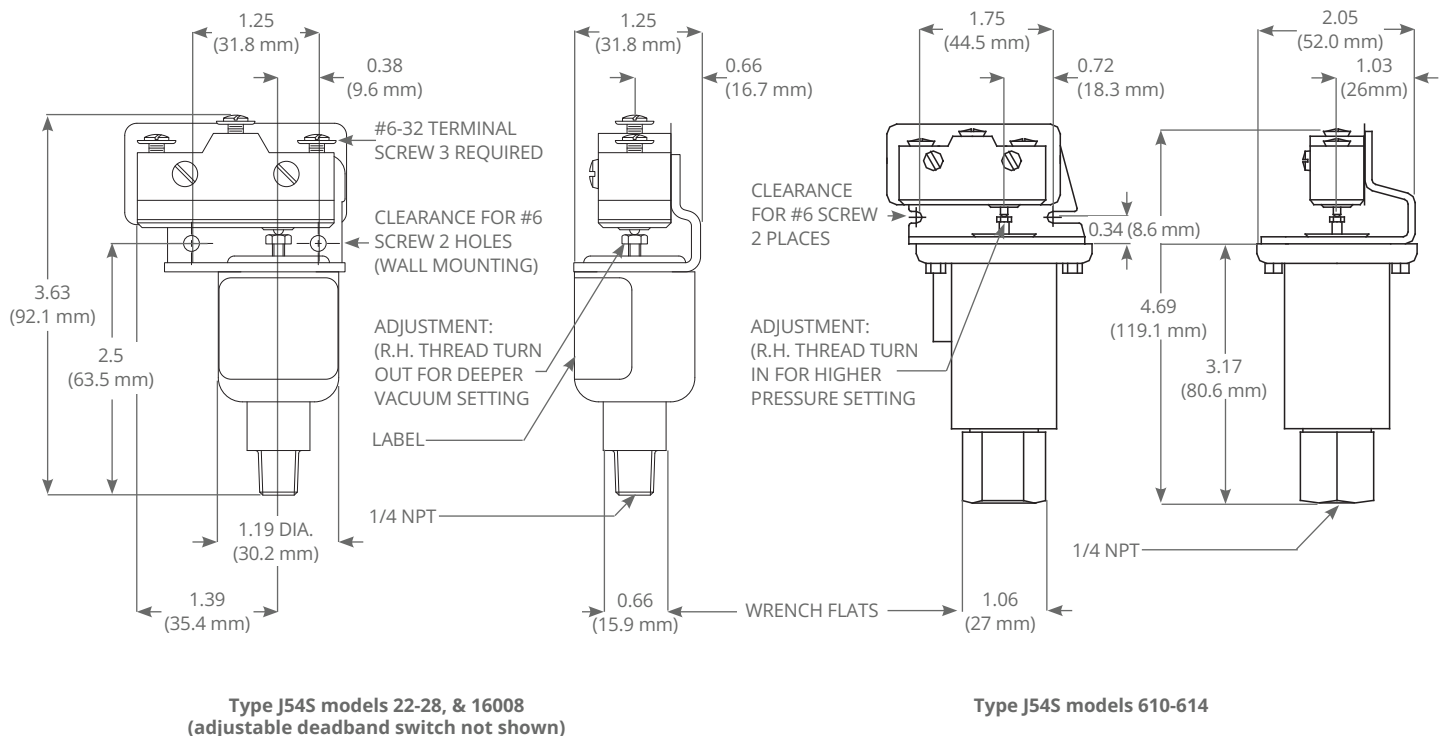
Consult UE for additional information.

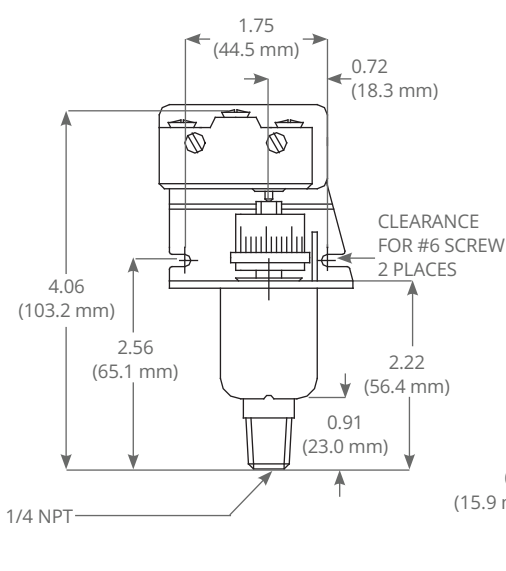
## Recommended Practices

- A redundant device is necessary for applications where damage to the primary device could endanger life, limb or property. A high or low limit switch is necessary for applications where a dangerous runaway condition could result.
- Monitor operation to observe warning signs of possible damage to device, such as drift in set point. Check device immediately.
- Preventative maintenance and periodic testing is necessary for critical applications where damage could endanger property or personnel.

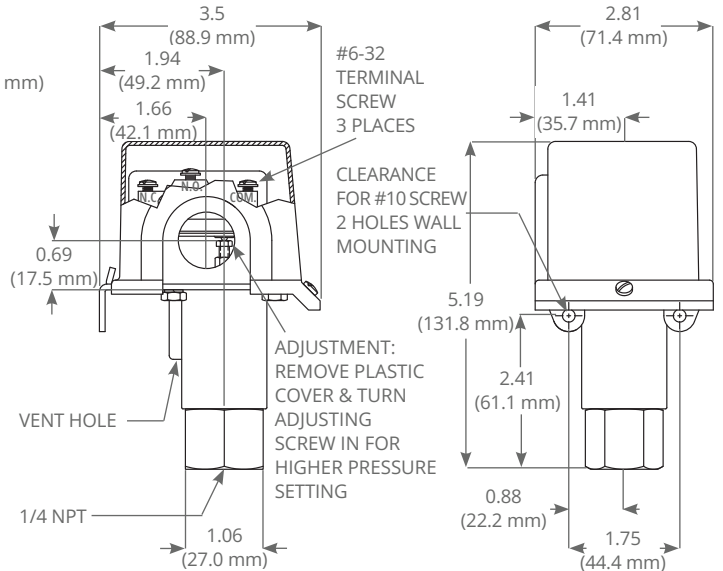
## Part III - Dimensions

All dimensions stated in inches (millimeters). Dimensional drawings for all models may be found at: [www.ueonline.com](http://www.ueonline.com)

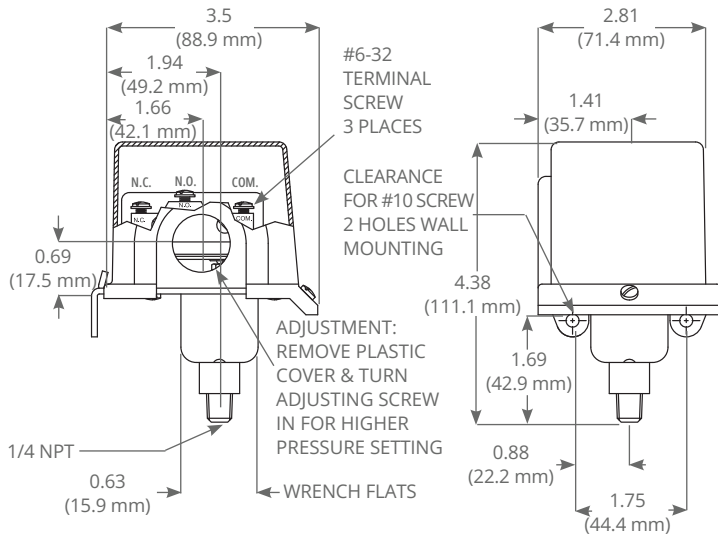




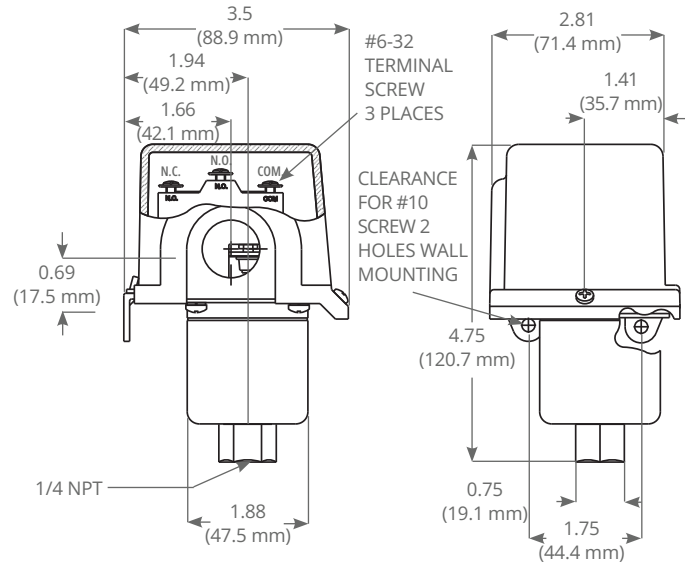
Type H54S models 22-28



Type J54 models 610-614



Type H54, J54 & J54A models 22-28, & 16009



Type H54, J54 & J54A models 126-164



## French Warnings Translations

Pg	Warning Text	Texte d'Avertissement
1	MISUSE OF THIS PRODUCT MAY CAUSE DAMAGE TO EQUIPMENT OR PERSONAL INJURY. THESE INSTRUCTIONS MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE UNIT IS INSTALLED..	Une mauvaise utilisation de cet appareil peut endommager l'équipement et/ou provoquer des blessures. Ces consignes doivent être lues attentivement et bien comprises avant l'installation de l'appareil.
1	THIS PRODUCT DOES NOT HAVE ANY FIELD REPLACEABLE PARTS. ANY SUBSTITUTION OF COMPONENTS SHALL INVALIDATE AGENCY CERTIFICATION(S).	Aucun composant ne peut être remplacé sur le terrain. Tout remplacement de composant peut invalider toutes les approbations et certifications données par un tiers.
1	INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT INSTALL DEVICE IN AMBIENT TEMPERATURES THAT EXCEED PUBLISHED LIMITS ON THE NAMEPLATE.	Installer l'appareil dans un endroit où les chocs, les vibrations et les variations de température sont minimales. Ne pas installer l'appareil dans un lieu où les températures ambiantes dépassent les limites indiquées sur la plaque signalétique de l'appareil.
2	DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. USE 75 °C (167 °F) RATED COPPER CONDUCTORS ONLY. MAXIMUM RECOMMENDED WIRE SIZE IS 16 AWG AND NOMINAL TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 9 IN-LBS..	Avant le branchement de l'appareil, déconnecter l'installation sur laquelle l'appareil doit être monté. Réaliser le branchement électrique selon les codes électriques nationaux et locaux. N'utiliser que des conducteurs en cuivre approuvés 75 °C (167 °F). Le diamètre maximal recommandé pour les fils est de 16 AWG. Le couple de serrage pour la borne de raccordement est de 9 IN-LBS.
2	DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE EVEN ON THE FIRST CYCLE.	Les seuils électriques indiqués dans la documentation et sur les plaques signalétiques ne doivent jamais être dépassés. La surtension peut causer une panne de l'appareil dès les premier cycle.

## LIMITED WARRANTY

Seller warrants that the device hereby purchased is, upon delivery, free from defects in material and workmanship and that any such device which is found to be defective in such workmanship or material will be repaired or replaced by Seller (Ex-works, Factory, Watertown, Massachusetts, INCOTERMS); provided, however, that this warranty applies only to device found to be so defective within a period of 24 months from the date of manufacture by the Seller. Seller shall not be obligated under this warranty for alleged defects which examination discloses are due to tampering, misuse, neglect, improper storage, and in any case where devices are disassembled by anyone other than authorized Seller's representatives. EXCEPT FOR THE LIMITED WARRANTY OF REPAIR AND REPLACEMENT STATED ABOVE, SELLER DISCLAIMS ALL WARRANTIES WHATSOEVER WITH RESPECT TO THE DEVICE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

## LIMITATION OF SELLER'S LIABILITY

Seller's liability to Buyer for any loss or claim, including liability incurred in connection with (i) breach of any warranty whatsoever, expressed or implied, (ii) a breach of contract, (iii) a negligent act or acts (or negligent failure to act) committed by Seller, or (iv) an act for which strict liability will be inputted to seller, is limited to the "limited warranty" of repair and/or replacement as so stated in our warranty of device. In no event shall the Seller be liable for any special, indirect, consequential or other damages of a like general nature, including, without limitation, loss of profits or production, or loss or expenses of any nature incurred by the buyer or any third party.

**UE specifications subject to change without notice.**



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IMP54 08

Installation & Maintenance Instructions

# UE 54 SERIES

Temperature Switches Types:

Enclosed: B54, C54, C54A, E54, F54

Skeleton: B54S, C54S, C54AS, E54S, F54S



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# 54 Series

Temperature Switches

Types:

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## Installation and Operation Instructions

Please read all instructional literature carefully and thoroughly before starting.

Refer to the final page for the Warranty.

### GENERAL



**MISUSE OF THIS PRODUCT MAY CAUSE DAMAGE TO EQUIPMENT OR PERSONAL INJURY. THESE INSTRUCTIONS MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE DEVICE IS INSTALLED.**

**Type B54, B54S, C54, C54S, C54A, C54AS (Immersion Stem)**

Temperature variations are sensed by a liquid filled sensor which expands or contracts against a bellows which actuates a snap-action switch at a predetermined set point.

**Type E54, E54S, F54, F54S (Bulb & Capillary)**

Temperature variations of a liquid filled sensing bulb are hydraulically transmitted to a diaphragm which actuates a snap-acting switch at a predetermined set point.



**MAX. TEMPERATURE\* LIMITS LISTED ON NAMEPLATE MUST NEVER BE EXCEEDED, EVEN BY SURGES IN THE SYSTEM. OCCASIONAL OPERATION OF UNIT UP TO MAX. TEMPERATURE IS ACCEPTABLE, E.G. START-UP AND TESTING. EXCESSIVE CYCLING AT MAXIMUM TEMPERATURE LIMIT COULD REDUCE SENSOR LIFE. CONTINUOUS OPERATION SHOULD NOT EXCEED THE DESIGNATED ADJUSTABLE TEMPERATURE RANGE.**

\* Maximum Temperature - the highest temperature to which a sensing element may be occasionally operated without adversely affecting set point calibration and repeatability.



**THIS PRODUCT DOES NOT HAVE ANY FIELD REPLACEABLE PARTS. ANY SUBSTITUTION OF COMPONENTS SHALL INVALIDATE AGENCY CERTIFICATION(S).**



**DEVICE MUST NOT BE ALTERED OR MODIFIED AFTER SHIPMENT. CONSULT UE IF MODIFICATION IS NECESSARY.**

Please refer to product datasheet at [www.ueonline.com](http://www.ueonline.com) for product specifications.

### Part I - Installation

#### Mounting



- Adjustable Wrench
- Screwdriver



**INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT INSTALL DEVICE IN AMBIENT TEMPERATURES THAT EXCEED PUBLISHED LIMITS ON THE NAMEPLATE.**



**DEVICE SHOULD BE MOUNTED TO PREVENT MOISTURE FROM ENTERING THE ENCLOSURE. VERTICAL MOUNTING IS RECOMMENDED.**



**ALWAYS USE A WRENCH ON LOCAL MOUNT, IMMERSION STEM HEX (SEE PART III DIMENSIONS). DO NOT TIGHTEN BY TURNING THE DEVICE AS THIS WILL DAMAGE THE SENSOR AND WEAKEN WELDED JOINTS.**



**AVOID BENDING OR COILING THE CAPILLARY TUBING TIGHTER THAN 1/2" RADIUS. EXERCISE CAUTION WHEN MAKING BENDS NEAR THE CAPILLARY ENDS.**

Remove cover (enclosed version only). Cover is held on by one captive screw located on the front of the cover.

54 Series temperature switches can be mounted in any position by using either the mounting screw holes on the bracket or the NPT connection on the immersion stem (local mounted only). Optional union connectors or separable well kits are available for remote bulb types.

A 7/8" diameter hole has been provided in the bracket plate for mounting a standard conduit fitting (See Part III Dimensions).

For remote mounting, fully immerse the bulb and 6" of capillary in the control zone. It is generally desirable to place the bulb close to the heating or cooling source in order to sense temperature fluctuations quickly. Be sure to locate the bulb so that it will not be exposed to temperatures beyond the instrument range limits.

### Wiring



**DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. MAXIMUM RECOMMENDED WIRE SIZE IS 14 AWG AND RECOMMENDED TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 7 TO 17 IN-LBS.**



**DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE EVEN ON THE FIRST CYCLE.**

For devices with a cover, wire through hole bringing wires up to the terminals from the rear.

## Part II - Adjustments



- 1/4" open end wrench
- Flatblade screwdriver



**ENSURE ELECTRICAL CONDUIT ENTRIES ARE PROPERLY SEALED TO PREVENT MOISTURE ENTRY.**

### Single Switch Devices

#### C54, C54S, F54, F54S - no reference dial

To adjust single switch units, follow "High Set" instructions. For "fine adjustment", follow "Fine Adjustment" instructions.

#### B54, B54S, E54, E54S - with reference dial

Turn the reference dial to desired set point by aligning setting on dial with dowel pin.

### Dual Switch Devices



**ON DUAL SWITCH DEVICES, "LOW SET" SWITCH MUST ALWAYS BE SET EQUAL OR BELOW THE "HIGH SET" SWITCH (SEE FIGURE 1).**

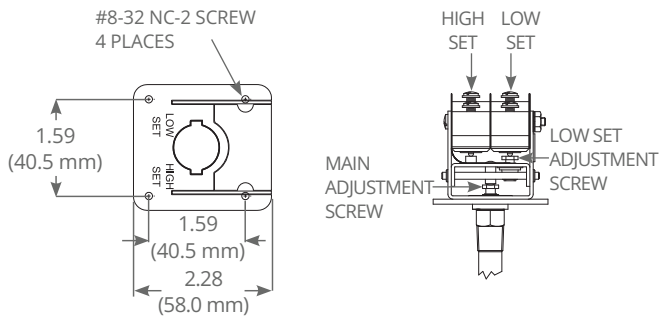


Figure 1

### High Set

- 1 Immerse the sensing portion of the unit in a calibrated temperature bath or other calibrated source at the desired "High Set" temperature.
- 2 Allow 5 minutes for the thermal system to stabilize.
- 3 Using a 1/4" open end wrench, slowly turn the main adjustment screw counterclockwise until the "High Set" switch transfers. If switch does not transfer, turn the main adjustment clockwise until the switch transfers, and then counterclockwise until it transfers again. The "High Set" switch should now transfer on "temperature rise" at the bath temperature.
- 4 If it is desired that the switch transfer on "temperature fall" at the bath temperature, turn the main adjustment screw clockwise until the switch transfers again.

### Low Set

- 1 Lower the temperature of the calibrated bath (or use another bath) to the desired "Low Set" temperature, and allow 5 minutes for the thermal system to stabilize.
- 2 Using a 1/4" open end wrench, slowly turn the low set adjustment screw clockwise until the switch transfers. If switch does not transfer, turn the low set adjustment screw counterclockwise until the switch transfers, and then clockwise until it transfers again. The "Low Set" switch is now set to actuate at the bath temperature on "temperature fall".
- 3 If it is desired that the "Low Set" switch transfer on "temperature rise" at the bath temperature, turn the low set adjustment screw counterclockwise until the switch transfers.

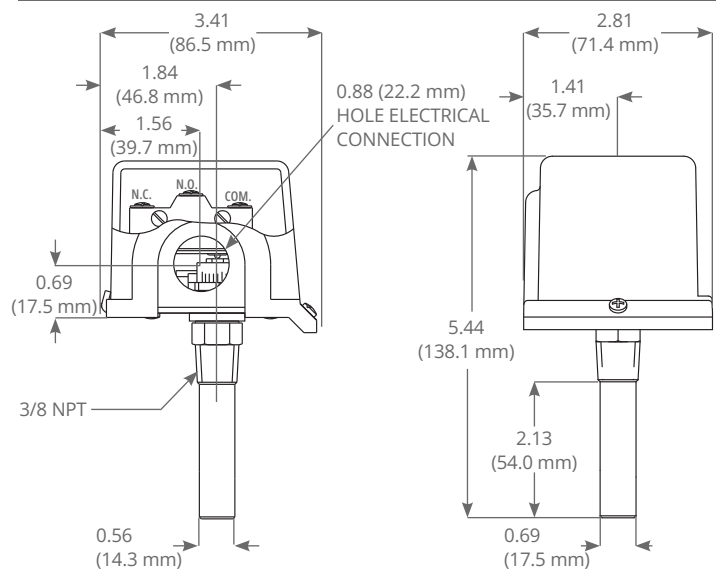
### Fine Adjustment

- 1 If it is necessary to "fine adjust" the "High Set" setting, raise the bath temperature to a value slightly higher than the "High Set" temperature.
- 2 Note the temperature at which the switch transfers (on rise).
- 3 Lower the bath temperature and note when switch transfers again (on fall). Turn the main adjustment screw clockwise to raise or counterclockwise to lower the settings.
- 4 If necessary, perform the same "fine adjustment" procedure outlined above for the "Low Set" switch.

## Recommended Practices

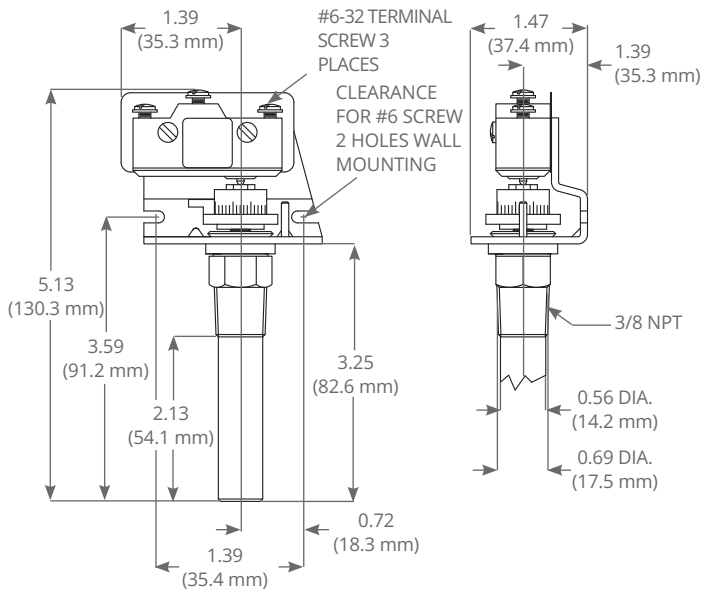
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- Monitor operation to observe warning signs of possible damage to device, such as drift in set point. Check device immediately.
- Preventative maintenance and periodic testing is necessary for critical applications where damage could endanger property or personnel.

## Part III - Dimensions

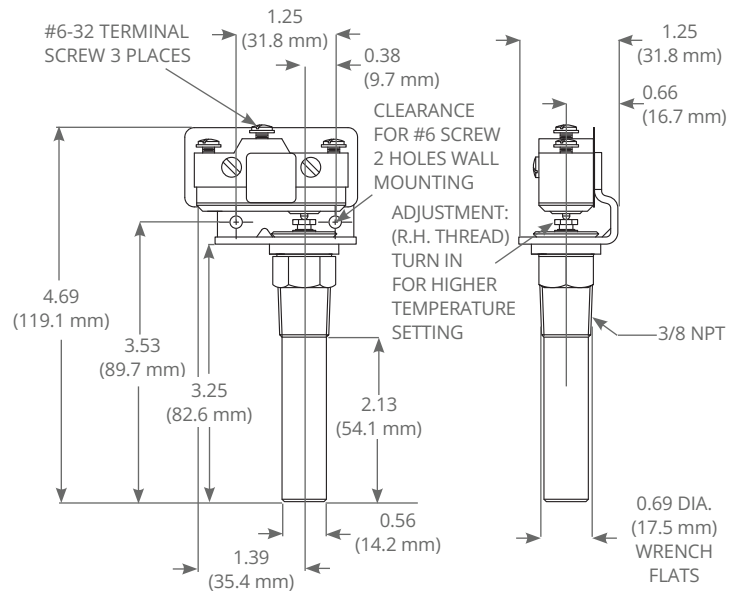


Type B54, C54, C54A

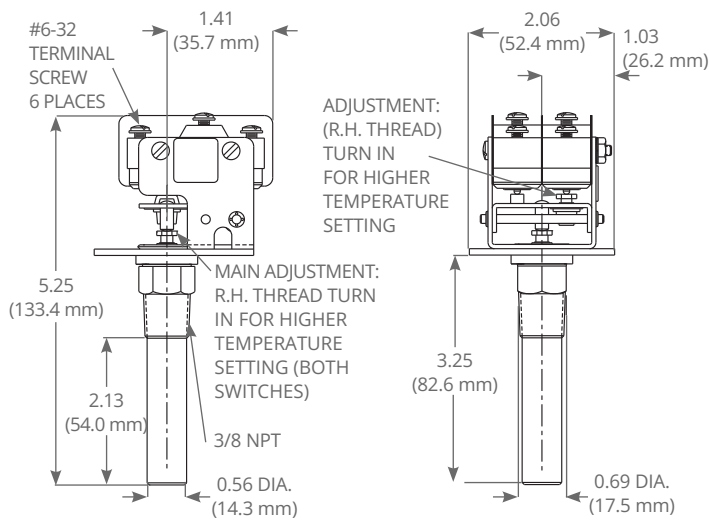
Type B54, C54, C54A



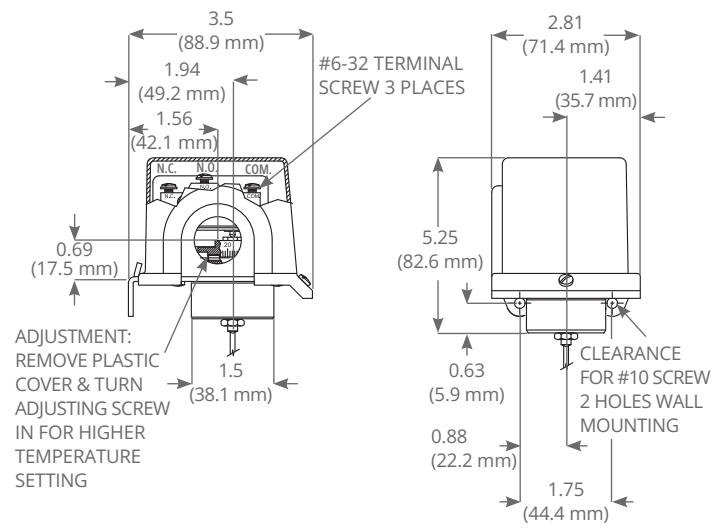
**Type B54S**



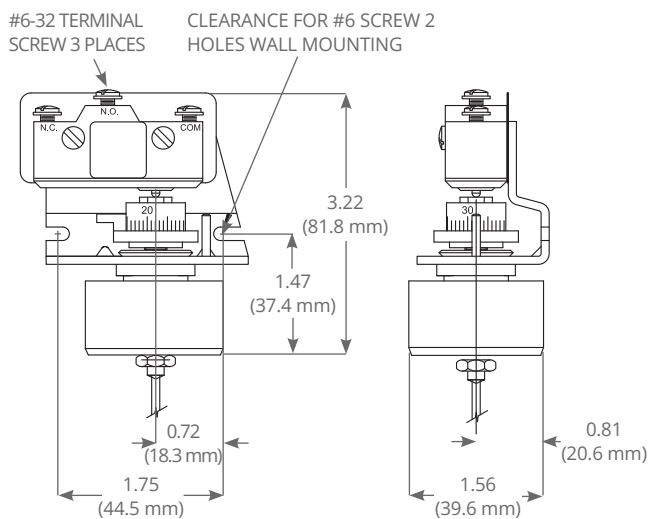
**Type C54S**



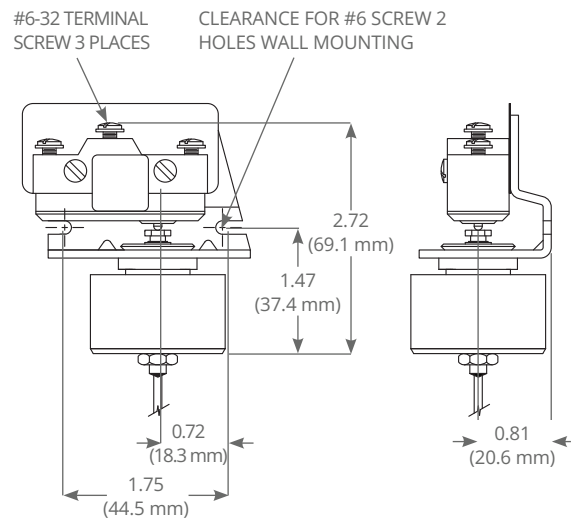
**Type C54AS**



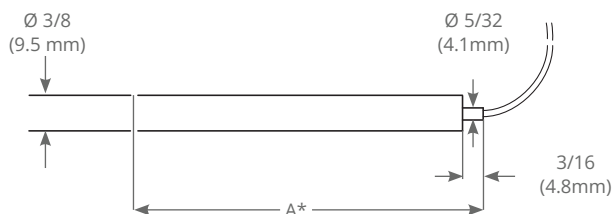
**Type E54, F54**



**Type E54S**



**F54S**



\* USE DIMENSION "A" FOR SEPARABLE WELL INSTALLATIONS

Remote Bulb

Bulb Size Dimension A		
Models	Inches	mm
<b>E54 &amp; F54</b>		
D20BC, D20BS, D22BC, D22BS 4.50 114.3	4.5	114.3
D21BC, D21BS 6.86 174.6	6.86	174.6
D23BC, D23BS 3.63 92.1	3.63	92.1
<b>E54S &amp; F54S</b>		
D21BC, D21BS 6.86 174.6	6.86	174.6
D22BC, D22BS 4.50 114.3	4.5	114.3
D23BC, D23BS 3.63 92.1	3.63	92.1

## French Warnings Translations

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1	INSTALL DEVICE WHERE SHOCK, VIBRATION AND TEMPERATURE FLUCTUATIONS ARE MINIMAL. DO NOT INSTALL DEVICE IN AMBIENT TEMPERATURES THAT EXCEED PUBLISHED LIMITS ON THE NAMEPLATE.	Installer l'appareil dans un endroit où les chocs, les vibrations et les variations de température sont minimales. Ne pas installer l'appareil dans un lieu où les températures ambiantes dépassent les limites indiquées sur la plaque signalétique de l'appareil.
2	DISCONNECT ALL SUPPLY CIRCUITS BEFORE WIRING DEVICE. WIRE DEVICE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. USE 75 °C (167 °F) RATED COPPER CONDUCTORS ONLY. MAXIMUM RECOMMENDED WIRE SIZE IS 16 AWG AND NOMINAL TIGHTENING TORQUE FOR FIELD WIRING TERMINALS IS 9 IN-LBS..	Avant le branchement de l'appareil, déconnecter l'installation sur laquelle l'appareil doit être monté. Réaliser le branchement électrique selon les codes électriques nationaux et locaux. N'utiliser que des conducteurs en cuivre approuvés 75 °C (167 °F). Le diamètre maximal recommandé pour les fils est de 16 AWG. Le couple de serrage pour la borne de raccordement est de 9 IN-LBS.
2	DO NOT EXCEED ELECTRICAL RATINGS LISTED ON NAMEPLATE. OVERLOAD ON A SWITCH CAN CAUSE FAILURE EVEN ON THE FIRST CYCLE.	Les seuils électriques indiqués dans la documentation et sur les plaques signalétiques ne doivent jamais être dépassés. La surtension peut causer une panne de l'appareil dès les premier cycle.

## LIMITED WARRANTY

Seller warrants that the device hereby purchased is, upon delivery, free from defects in material and workmanship and that any such device which is found to be defective in such workmanship or material will be repaired or replaced by Seller (Ex-works, Factory, Watertown, Massachusetts, INCOTERMS); provided, however, that this warranty applies only to device found to be so defective within a period of 24 months from the date of manufacture by the Seller. Seller shall not be obligated under this warranty for alleged defects which examination discloses are due to tampering, misuse, neglect, improper storage, and in any case where devices are disassembled by anyone other than authorized Seller's representatives. EXCEPT FOR THE LIMITED WARRANTY OF REPAIR AND REPLACEMENT STATED ABOVE, SELLER DISCLAIMS ALL WARRANTIES WHATSOEVER WITH RESPECT TO THE DEVICE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

## LIMITATION OF SELLER'S LIABILITY

Seller's liability to Buyer for any loss or claim, including liability incurred in connection with (i) breach of any warranty whatsoever, expressed or implied, (ii) a breach of contract, (iii) a negligent act or acts (or negligent failure to act) committed by Seller, or (iv) an act for which strict liability will be imputed to seller, is limited to the "limited warranty" of repair and/or replacement as so stated in our warranty of device. In no event shall the Seller be liable for any special, indirect, consequential or other damages of a like general nature, including, without limitation, loss of profits or production, or loss or expenses of any nature incurred by the buyer or any third party.

**UE specifications subject to change without notice.**

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