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WPS Series Pressure Switch Installation Manual

Patent No.

M295332
M334932
China: 920135



Switches with UL & CSA
Recognized and File No.
E12252.



Description

Technical Data	
Electrical Rate Values	15 amps, 125/150V
Ambient Temperature	-30 to 205C -22 to 401F
Protection Class	Weather Proof: NEMA 4, 4X, IP66
	Explosion Proof: (Certificate on housing only) Class I, Groups A, B, C & D; Class II Division 1, Groups E, F & G; NEMA 7, 9 IP68
Housing Material	Aluminum alloy (ADC 12)

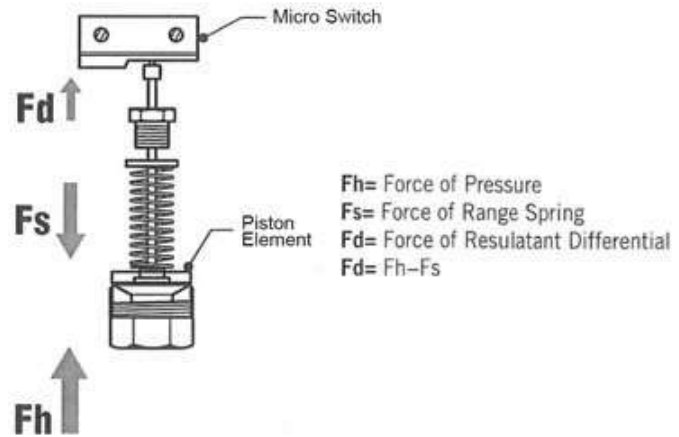
Features:

- All electric parts, including electronic components, are placed inside the housing case for protection.
- For information on the protection class of the housing, please refer to technical data above.
- IP66 weather proof class and IP68 explosion-proof class protection.
- All component parts are affixed into the housing case tightly.

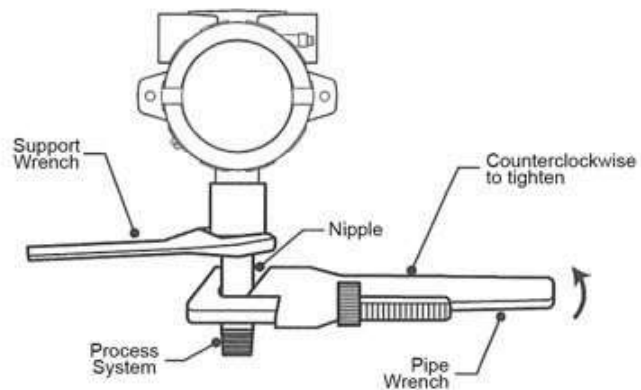
Safe Storage:

- Keep the pressure switch in a protected, dry, well-ventilated and protected place until you are ready to install the product.
- For details on assembling the cable gland please see the "cable gland installation" section on the last page.

PRINCIPLE

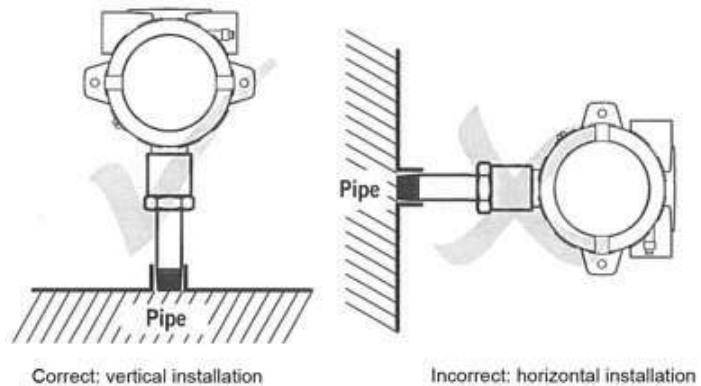


PROCESS INSTALLATION INSTRUCTION



NOTICE:

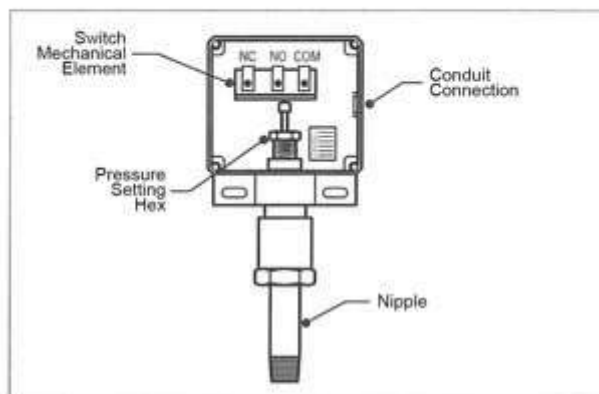
Install product vertically, not horizontally



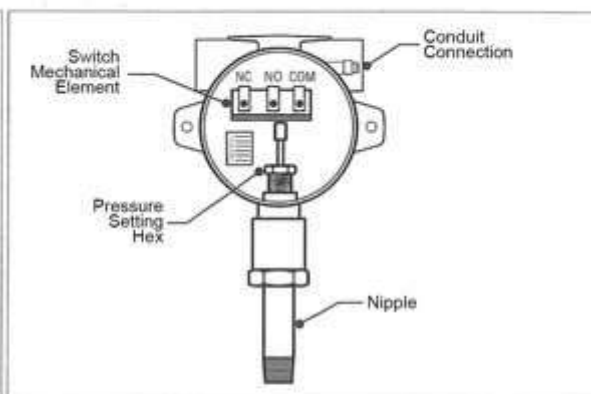
Set-Point Setting

CONSTRUCTION DRAWING

Weather Proof Type

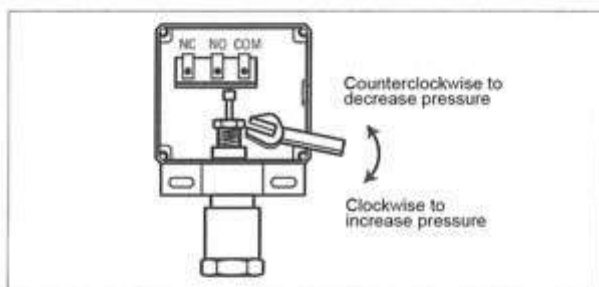


Explosion Proof Type

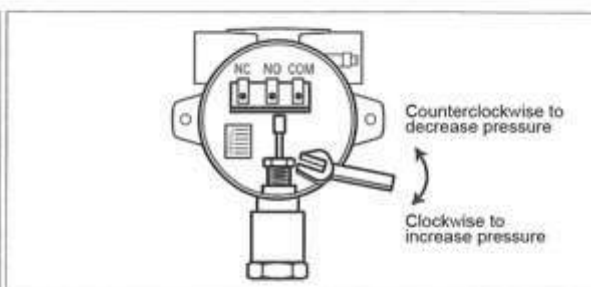


FIXED DEADBAND PRESSURE RANGE SETTING

Weather Proof Type



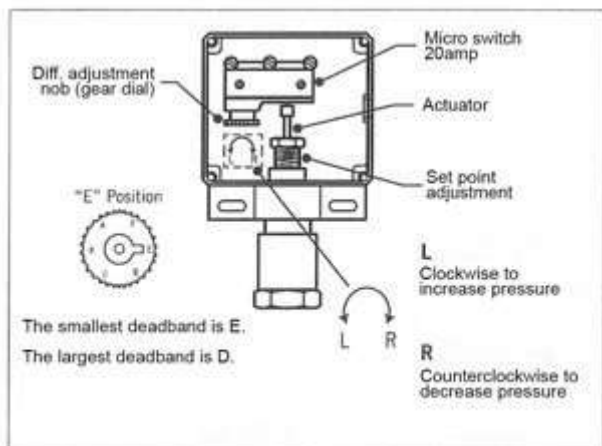
Explosion Proof Type



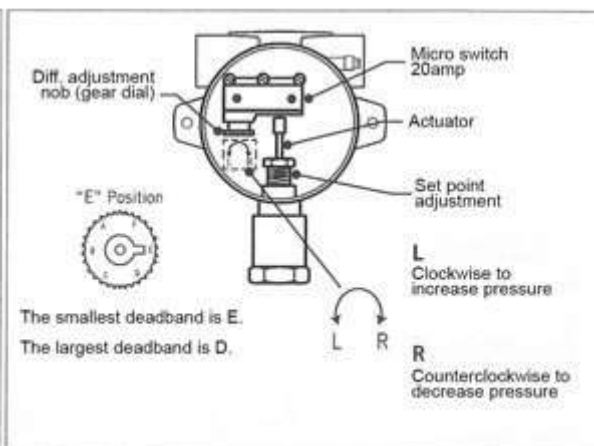
ADJUSTABLE DEADBAND RANGE SETTING

Pressure setting hex is adjusted based on E point when ex-factory. To regulate the deadband, rotate the gear dial on the micro switch, then choose the setting for A to F.

Weather Proof Type

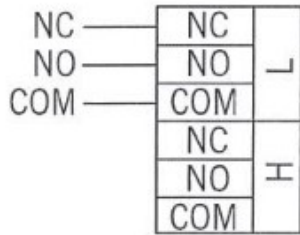


Explosion Proof Type

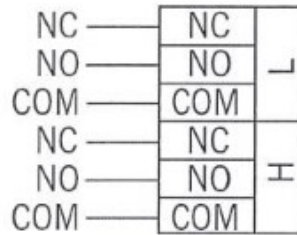


Wire Drawing

Weather Proof Type



Explosion Proof Type



Micro Switch Data

Original Switch Manufacturer

Honeywell

Switch Data

One SPDT and two SPDT micro switches, 15 amps 125/250V, Gold Contact
Micro Switch 1A, 125/250VAC

REPEATABILITY

Set point:

For accurate set-point adjustment, mount the switch on a calibration stand and use a suitable test or reference gauge. Select your set-point by rotating the adjustment hex clockwise or counterclockwise. Pressurize the system to the required set-point, then lower the pressure. Adjust your set-point as required and repeat the process four or more times to ensure repeatability.

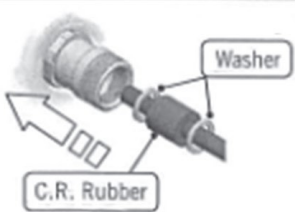
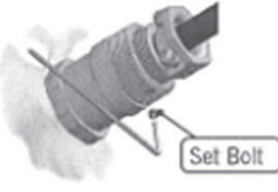
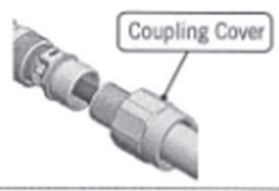
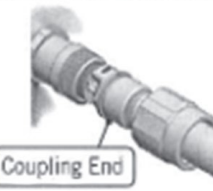
CABLE GLAND INSTALLATION

- The explosion proof cable gland should be paired with the certified product.
- Always remember to shut off the power to the switch before wiring to avoid electric shock.
- Before wiring, ensure the installation environment is safe - free of dangerous and/or flammable gasses.
- In accordance with regulatory requirements, the cable O.D. corresponds with different materials as follows (unit = mm)

	C20	C25	C32	C40	C45
C.R. Chloroprene Rubber (min. temp. -20°C)	6~8	10~12	16~18	22~24	28~30
	8~10	12~14	18~20	24~26	30~32
	10~12	14~16	20~22	26~28	32~34

CABLE GLAND INSTALLATION

After packing the cable gland, the inner Chloroprene (C.R.) rubber is not reusable. After installation, do not pack the same section of packed cable. Pack the new section of cable instead. Apply the thread sealant to the screw of the housing case before assembling the cable gland.

Step 1. 	Step 2. 
Step 3. 	Step 4. 
Step 5. 	Step 6. 
Step 7. 	Step 8. 
Use the wrench to screw the cable gland body to the conduit of housing case.	Set the cable into the C.R. rubber packing and install in the body of cable gland.
Use the wrench to tighten the gland. The C.R. rubber should have some flexibility (play)	Use the screwdriver to tighten the screws between both sides of the threads, and fix the cable so it is not too loose.
Use the hex wrench to screw the set bolt into place.	Put the coupling cover into the wire harness.
Connect the coupling end with the outer piping.	Set the union nut into the body and fasten the screw to complete the assembly.

NOTE.
Step 6~8: for coupling type only.

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