

# Medium Pressure, Explosion Proof And Adjustable Deadband Pressure Switch

7WPS &  
7WPSA

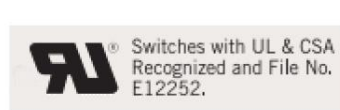


## Description & Features:

- Heavy-duty Explosion-proof pressure switch
- Low pressure to 100 psi
- High current ratings for 1 x SPDT or 2 x SPDT switches
- Fixed or adjustable deadband options
- Die cast aluminum construction with welded seal
- 1% accuracy
- IP68 rated including Hermetically sealed option
- cULus listed and RU recognized
- CRN registration pending
- 5 year warranty

## Applications:

- Designed for hazardous areas including Oil & Gas, Petrochemical, Power Generation, Waste Water and others



## Specifications

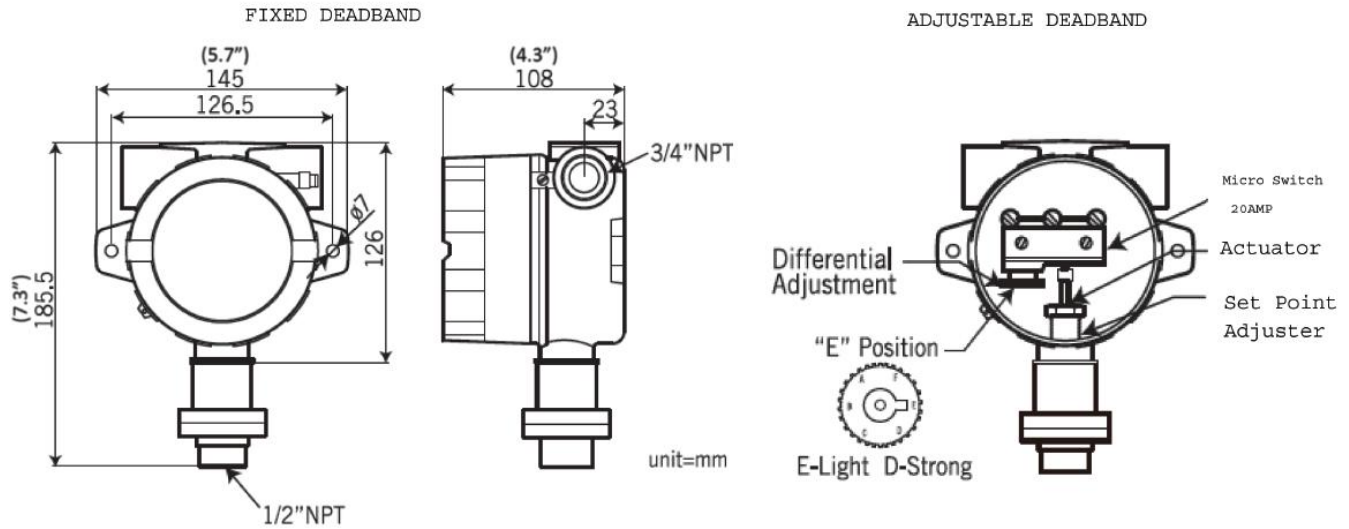
<b>Housing</b>	Heavy-duty explosion-proof die-cast aluminum, blue colour
<b>Accuracy</b>	+/- 1% of the adjustable set-point range
<b>Pressure Connection</b>	Female 1/4" or 1/2" NPT, BSP and M20xP1.5
<b>Electrical Connection</b>	Female 1/2" or 3/4" NPT, M20xP1.5
<b>Wetted Parts</b>	316 Stainless Steel welded
<b>Set Point Adjustment</b>	Field selectable
<b>Deadband</b>	Fixed or Adjustable, see Order Codes
<b>Contact Rating</b>	Fixed Deadband: 15A @ 125/250VAC, 0.4A @ 125VDC, 3A @ 30VDC Hermetically sealed switch 5A @ 250VAC Gold contact microswitch 1A @ 125/250VAC  Adjustable Deadband: 20A @ 125/250/480VAC, 5A @ 125VDC
<b>No. of Contacts</b>	1 x SPDT or 2 x SPDT (only 1 x SPDT available for Adjustable Deadband range)
<b>Ambient/Process Temperature</b>	-30 to 205 deg C (-22 to 400 deg F)
<b>Enclosure Rating</b>	IP68, Protection from dust ingress and submersion in fresh water to a maximum depth of 1.5 metres for up to 30 minutes
<b>Approvals</b>	cULus listed, Class I Division 1 Groups A, B, C & D; Class II Division 1 Groups E, F & G (housing) RU recognized, file no E12252 (switch only) CRN registration pending
<b>Weight</b>	3.95 lbs (1.79 kg)

### Order Codes

Adjustable Range PSI	Fixed Dead Band PSI	Proof Pressure PSI	3/4" NPT Electrical	
			1/4" NPT Process	1/2" NPT Process
2-12	0.2-0.4	1,000	7WPS0016F4F301U	7WPS0016F2F301U
2-16	0.2-0.5	1,000	7WPS0106F4F301U	7WPS0106F2F301U
2-20	0.3-0.6	1,000	7WPS0206F4F301U	7WPS0206F2F301U
3-28	0.3-0.8	1,000	7WPS0306F4F301U	7WPS0306F2F301U
7-100	0.7-2.0	1,000	7WPS0406F4F301U	7WPS0406F2F301U

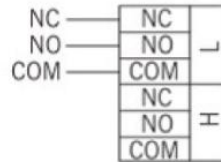
Adjustable Range PSI	Adjustable Dead Band E-position PSI	Proof Pressure PSI	3/4" NPT Electrical	
			1/4" NPT Process	1/2" NPT Process
2-12	1.2-3	1,000	7WPSA0016F4F301U	7WPSA0016F2F301U
2-16	1.6-4	1,000	7WPSA0106F4F301U	7WPSA0106F2F301U
2-20	2-5	1,000	7WPSA0206F4F301U	7WPSA0206F2F301U
3-28	2.8-7	1,000	7WPSA0306F4F301U	7WPSA0306F2F301U
7-100	9.9-28.4	1,000	7WPSA0406F4F301U	7WPSA0406F2F301U

### Dimensions

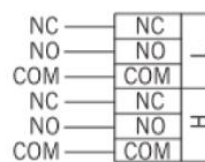


### Wiring Schematic

1 x SPDT



2 x SPDT



# Medium Pressure, Explosion Proof And Adjustable Deadband Pressure Switch

7WPS &  
7WPSA

Electronic Pressure Switches

## Engineering Code

### SERIES PRESSURE RANGES (PSI)

#### Fixed Deadband

Pressure Range		Deadband	Proof Pressure PSI
Min	Max		
2	12	0.2-0.4	1,000
2	16	0.2-0.5	1,000
2	20	0.3-0.6	1,000
3	28	0.3-0.8	1,000
7	100	0.7-2.0	1,000
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Adjustable Deadband		1.2-3	1,000
2	16	1.6-4	1,000
2	20	2-5	1,000
3	28	2.8-7	1,000
7	100	9.9-28.4	1,000

### WETTED PARTS

### PROCESS CONNECTION

### CONDUIT CONNECTION

### SWITCH TYPE

### HOUSING MATERIAL

### OPTIONS

316 Stainless Steel, diaphragm welded (standard)

1/2" NPT Female

1/4" NPT Female

1/2" BSP Female

1/4" BSP Female

1/2" PT Female

1/4" PT Female

M20 X P1.5

3/4" NPT Female (standard)

1/2" NPT Female

M20 X P1.5

Micro Switch, 1 x SPDT

Micro Switch, 2 x SPDT (one setpoint), *not available for Adjustable Deadband*

Gold Contact, 1 x SPDT, *not available for Adjustable Deadband*

Gold Contact, 2 x SPDT (one setpoint), *not available for Adjustable Deadband*

Hermetically Sealed Switch, 1 x SPDT, *not available for Adjustable Deadband*

Hermetically Sealed Switch, 2 x SPDT (one setpoint), *not available for Adjustable Deadband*

cULus Listed, Hazardous locations

Custom Pressure Scale (R1=psi, R2=kPa, R3=kg/cm<sup>2</sup>, R4=cmH<sub>2</sub>O, R5=ftH<sub>2</sub>O, R6=inHg, R7=mmHg, R8=inH<sub>2</sub>O, R9=oz/IN<sup>2</sup>,

R10=ATM, R11=bar, R12=mbar, R13=MPa, R14=mH<sub>2</sub>O, R15=mmH<sub>2</sub>O, R16=Pa)

Customer Specific (Numbers from 201 to 2999)

