

Medium Pressure, Explosion Proof And Adjustable Deadband Pressure Switch



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 cRU recognized
- CRN registration pending
- 5 year warranty

Applications:

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



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



Specifications

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

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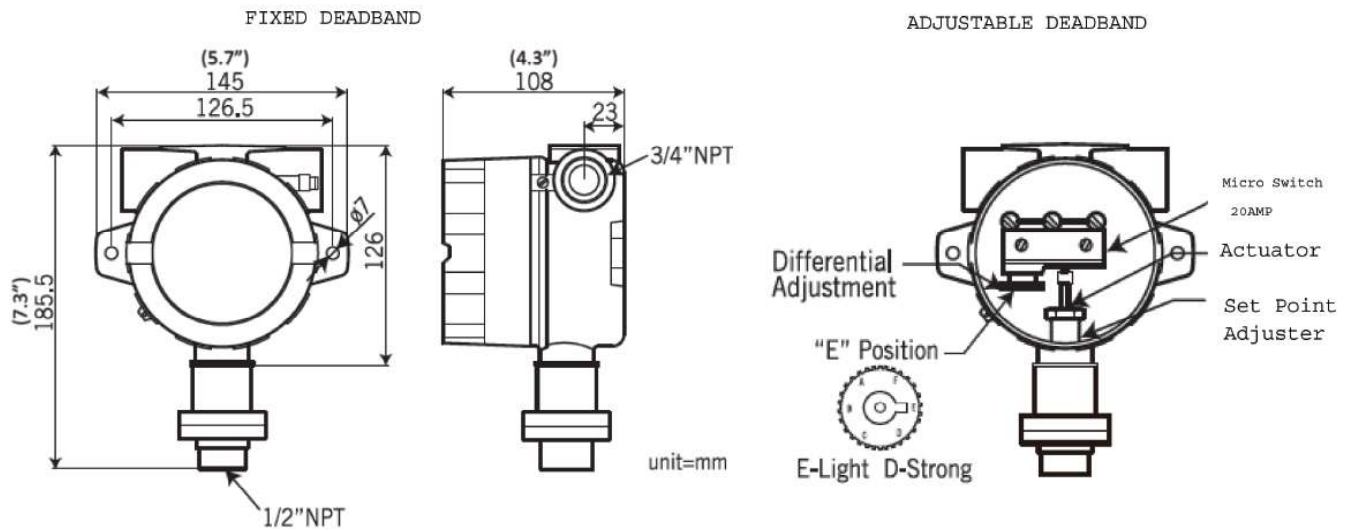
7WPS &
7WPSA

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

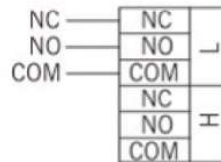
Adjustable Range PSI	Adjustable Dead Band E-position PSI	Proof Pressure PSI	3/4" NPT Electrical	
			1/4" NPT Process	1/2" NPT Process
2-12	1.2-3	1,000	7WPSA0016F4F301U	7WPSA0016F2F301U
2-16	1.6-4	1,000	7WPSA0106F4F301U	7WPSA0106F2F301U
2-20	2-5	1,000	7WPSA0206F4F301U	7WPSA0206F2F301U
3-28	2.8-7	1,000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

Dimensions

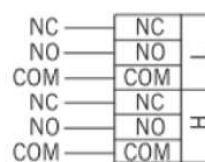


Wiring Schematic

1 x SPDT



2 x SPDT



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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/cm², R4=cmH₂O, R5=ftH₂O, R6=inHg, R7=mmHg, R8=inH₂O, R9=ozIN₂, R10=ATM, R11=bar, R12=mbar, R13=MPa, R14=mH₂O, R15=mmH₂O, R16=Pa)

Customer Specific (Numbers from 201 to 2999)

7 W P S - [] - [] - [] - [] - [] - [] - [] - []

7 W P S A - [] - [] - [] - [] - [] - [] - [] - []

6

F 2
F 4
B 2
B 4
P 2
P 4
M 2

F 3
F 2
M 2

0 1
0 2
3 A
3 B
4 A
4 B

U

R X X X
Z # # #