

Electromechanical pressure switches

OsiSense XM

For control circuits, OsiSense ACW
Sizes 0.70 to 131 bar (10.15 to 1900 psi)
Adjustable differential, for regulation between 2 thresholds
Fluid connection G 1/4 (female)

Pressure switches OsiSense ACW

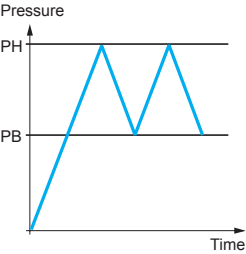
Bellows operated



Adjustable range of switching point (PB) (Falling pressure)			0.07...0.70 bar (1.01...10.15 psi)	0.07...1.4 bar (1.01...20.3 psi)	0.07...5.2 bar (1.01...75.4 psi)	0.07...7.6 bar (1.01...110.2 psi)
References						
Switches with 1 CO single-pole contact						
Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	ACW3M119012	ACW4M119012	ACW5M119012	ACW1M119012	
	With one tapped entry for n° 13 cable gland	ACW3M129012	ACW4M129012	ACW5M129012	ACW1M129012	
Weight (kg)		1.750		1.550		
Switches with 2 CO single-pole contacts						
Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	ACW23M119012	ACW24M119012	ACW25M119012	ACW21M119012	
	With one tapped entry for n° 13 cable gland	ACW23M129012	ACW24M129012	ACW25M129012	ACW21M129012	
Weight (kg)		1.750		1.550		
Complementary characteristics not shown under general characteristics (page 75)						
Possible differential (add to PB to give PH)	1 CO switches	Min.	0.04 bar (0.58 psi)	0.10 bar (1.45 psi)	0.30 bar (4.35 psi)	0.50 bar (7.25 psi)
		Max.	0.34 bar (4.93 psi)	0.40 bar (5.8 psi)	1 bar (14.5 psi)	2 bar (29 psi)
	2 CO switches	Min.	0.05 bar (0.73 psi)	0.14 bar (2.03 psi)	0.41 bar (5.95 psi)	0.9 bar (13.05 psi)
		Max.	0.48 bar (6.96 psi)	0.70 bar (10.15 psi)	1.4 bar (20.3 psi)	2.8 bar (40.6 psi)
Maximum permissible pressure		2 bar (29 psi)			7 bar (101.5 psi)	17 bar (246.5 psi)
Fluids controlled		Air, oils and other non corrosive fluids, from - 73 to + 125°C (1)				
Mechanical life		1 x 10 ⁶ operating cycles (average value, depending on application)				
Cable entry, screw terminals	ACW●M119012, ACW2●M119012	1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm				
	ACW●M129012, ACW2●M129012	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm				

(1) See “Component materials of units in contact with the fluid”, page 75.

Operating curve

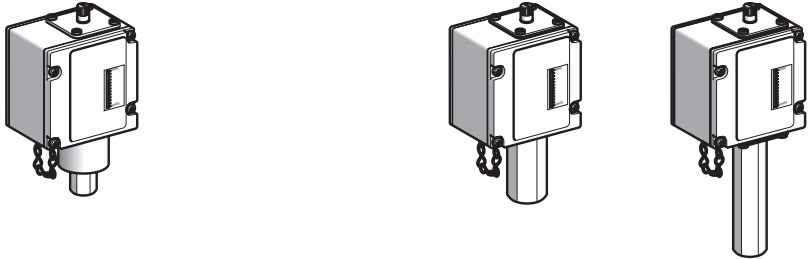


— Adjustable value

Other versions

Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

Bellows operated



0...12 bar (20.3...174 psi)	0.7...18 bar (10.15...261 psi)	0.7...21 bar (10.15...304.5 psi)	5.2...34 bar (75.4...493 psi)	10...69 bar (145...1000 psi)	24...131 bar (348...1900 psi)
References					
Switches with 1 CO single-pole contact					
ACW8M119012	ACW9M119012	ACW2M119012	ACW6M119012	ACW7M119012	ACW10M119012
ACW8M129012	ACW9M129012	ACW2M129012	ACW6M129012	ACW7M129012	ACW10M129012
1.550		2.100			
Switches with 2 CO single-pole contacts					
ACW28M119012	—	ACW22M119012	ACW26M119012	—	ACW20M119012
ACW28M129012	ACW29M129012	ACW22M129012	ACW26M129012	ACW27M129012	ACW20M129012
1.550		2.100			
Complementary characteristics not shown under general characteristics (page 75)					
0.70 bar (10.15 psi)	1 bar (14.5 psi)	1.7 bar (24.7 psi)	3.4 bar (49.3 psi)	5.9 bar (85.6 psi)	11 bar (159.5 psi)
2 bar (29 psi)	1.7 bar (24.7 psi)	8.6 bar (124.7 psi)	8.3 bar (120.4 psi)	10 bar (145 psi)	21 bar (304.5 psi)
1 bar (14.5 psi)	1.6 bar (23.2 psi)	2.4 bar (34.8 psi)	5.9 bar (85.6 psi)	9.3 bar (134.9 psi)	17 bar (246.5 psi)
2.8 bar (40.6 psi)	2.4 bar (34.8 psi)	10 bar (145 psi)	11 bar (159.5 psi)	14 bar (203 psi)	24 bar (348 psi)
17 bar (246.5 psi)	20 bar (290 psi)	41 bar (549.5 psi)	140 bar (2030 psi)	140 bar (2030 psi)	175 bar (2538 psi)
Air, oils and other non corrosive fluids, from - 73 to + 125°C (1)					
1 x 10 ⁶ operating cycles (average value, depending on application)					
1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm					
1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm					

Other versions

Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

Electromechanical pressure switches

OsiSense XM

For control circuits, OsiSense ADW

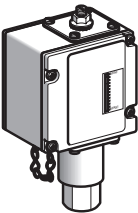
Sizes 69 to 340 bar (1000 to 4930 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection G 3/8 (female)

Pressure switches OsiSense ADW

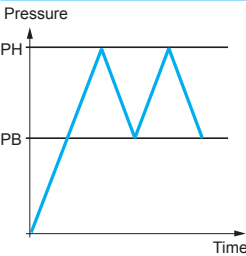
Piston operated, with drainage hole (1)



Adjustable range of switching point (PH) (Rising pressure)		9.3...69 bar (135...1000 psi)	28...210 bar (406...3045 psi)	38...340 bar (551...4930 psi)	
References					
Switches with 1 CO single-pole contact					
Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	ADW3M119012	ADW4M119012	ADW7M119012	
	With one tapped entry for n° 13 cable gland	ADW3M129012	ADW4M129012	ADW7M129012	
Weight (kg)		1.880			
Switches with 2 CO single-pole contacts					
Electrical connection	With one tapped entry for n° 13 cable gland	ADW23M129012	ADW24M129012	ADW27M129012	
Weight (kg)		1.880			
Complementary characteristics not shown under general characteristics (page 75)					
Possible differential (subtract from PH to give PB)	1 CO switches	Min.	2.4 bar (34.8 psi)	6.9 bar (100 psi)	8.6 bar (124.7 psi)
		Max.	9.3 bar (135 psi)	28 bar (406 psi)	38 bar (551 psi)
	2 CO switches	Min.	3.1 bar (45 psi)	8.6 bar (124.7 psi)	14 bar (203 psi)
		Max.	14 bar (203 psi)	34 bar (493 psi)	41 bar (594.5 psi)
Maximum permissible pressure		690 bar (10,000 psi)			
Fluids controlled		Oils (including synthetic) only, from - 30°C to + 125°C (2) (3)			
Mechanical life		1 x 10 ⁶ operating cycles (average value, depending on application)			
Cable entry, screw terminals	ADW●M119012	1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm			
	ADW●M129012, ADW2●●M129012	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm			

- (1) Since it is normal for piston type pressure switches (not incorporating a piston seal) to have a slight oil leakage past the piston, a drain hole through the cylinder wall is incorporated. To avoid back pressure, this hole should never be plugged. If for any reason this oil leakage is undesirable, use pressure switches incorporating a Quad-Ring piston seal.
- (2) See "Component materials of units in contact with the fluid", page 75.
- (3) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



— Adjustable value

Other versions

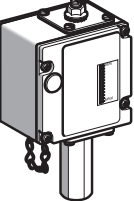
Contact block connections



Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.

Pressure switches OsiSense ADW

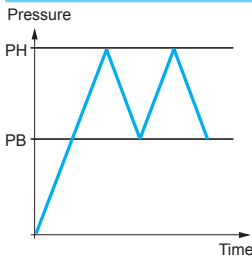
Piston operated, with Quad-Ring piston seal



Adjustable range of switching point (PH) (Falling pressure)		9.3...69 bar (135...1000 psi)	28...210 bar (406...3045 psi)	38...340 bar (551...4930 psi)	
References					
Switches with 1 CO single-pole contact					
Electrical connection	With one tapped entry M20 x 1.5 mm for ISO cable gland	ADW5M119012	ADW6M119012	—	
	With one tapped entry for n° 13 cable gland	ADW5M129012	ADW6M129012	ADW7S1M129012	
Weight (kg)		1.880			
Switches with 2 CO single-pole contacts					
Electrical connection	With one tapped entry for n° 13 cable gland	ADW25M129012	ADW26M129012	—	
Weight (kg)		1.880			
Complementary characteristics not shown under general characteristics (page 75)					
Possible differential (subtract from PH to give PB)	1 CO switches	Min./max. at low setting	4.8/6.9 bar (69.6/100 psi)	14/21 bar (203/304.5 psi)	19/25 bar (275.5/362.5 psi)
		Min./max. at low setting	8.6/10 bar (124.7/145 psi)	28/34 bar (406/493 psi)	38/45 bar (551/652.5 psi)
	2 CO switches	Min./max. at low setting	6.2/7.9 bar (89.9/114.6 psi)	17/24 bar (246.5/348 psi)	22/28 bar (319/406 psi)
		Min./max. at high setting	10/12 bar (145/174 psi)	34/39 bar (493/565.5 psi)	44/50 bar (638/725 psi)
Maximum permissible pressure		690 bar (10,000 psi)			
Fluids controlled		Oils and other fluids, from - 25°C to + 120°C (1) (2)			
Mechanical life		1 x 10 ⁶ operating cycles (average value, depending on application)			
Cable entry, screw terminals	ADW●M119012	1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm			
	ADW●M129012, ADW2●●M129012	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm			

- (1) See "Component materials of units in contact with the fluid", page 75.
- (2) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



— Adjustable value

Other versions

Contact block connections



Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer Care Centre.