

Electromechanical pressure switches

For control circuits, type ACW

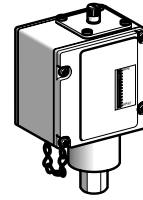
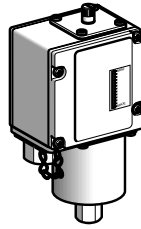
Sizes 0.70 to 131 bar (10.15 to 1900 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection 1/4" BSP

Pressure switches type 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 C/O single-pole contact

Fluids controlled	Air, oils and other non corrosive fluids, from - 73 °C to + 125 °C (1)	ACW 3M129012	ACW 4M129012	ACW 5M129012	ACW 1M129012
Weight (kg)		1.750		1.550	

Switches with 2 C/O single-pole contacts

Fluids controlled	Air, oils and other non corrosive fluids, from - 73 °C to + 125 °C (1)	ACW 23M129012	ACW 24M129012	ACW 25M129012	ACW 21M129012
Weight (kg)		1.750		1.550	

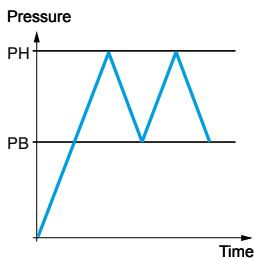
Complementary characteristics not shown under general characteristics (page 30347/3)

Possible differential (add to PB to give PH)	1 C/O 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 C/O 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)	
Mechanical life		1 x 10 ⁶ operating cycles (average value, depending on application)				
Cable entry		1 entry tapped 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 30347/3.

Operating curve

Contact block connections

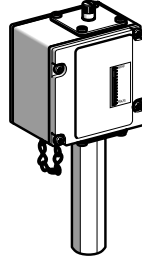
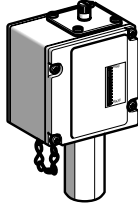
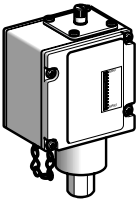


— Adjustable value

Other versions

Pressure switches with alternative tapped cable entries: ISO, NPT, etc. Please consult your Regional Sales Office.

Bellows operated



1.4...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)
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References

Switches with 1 C/O single-pole contact

ACW 8M129012	ACW 9M129012	ACW 2M129012	ACW 6M129012	ACW 7M129012	ACW 10M129012
1.550		2.100			

Switches with 2 C/O single-pole contacts

ACW 28M129012	ACW 29M129012	ACW 22M129012	ACW 26M129012	ACW 27M129012	ACW 20M129012
1.550		2.100			

Complementary characteristics not shown under general characteristics (page 30347/3)

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)

1 x 10⁶ operating cycles (average value, depending on application)

1 entry tapped 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: ISO, NPT, etc.
Please consult your Regional Sales Office.

Electromechanical pressure switches

For control circuits, type ADW

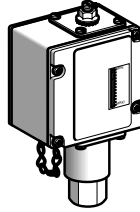
Sizes 69 to 340 bar (1000 to 4930 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection 3/8" BSP

Pressure switches type 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)
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References

Switches with 1 C/O single-pole contact

Fluids controlled	Oils (including synthetic), from - 30 °C to + 125 °C (2) (3)	ADW 3M129012	ADW 4M129012	ADW 7M129012
Weight (kg)	1.880			

Switches with 2 C/O single-pole contacts

Fluids controlled	Oils (including synthetic), from - 30 °C to + 125 °C (2) (3)	ADW 23M129012	ADW 24M129012	ADW 27M129012
Weight (kg)	1.880			

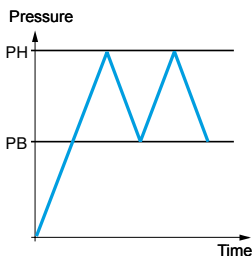
Complementary characteristics not shown under general characteristics (page 30347/3)

Possible differential (subtract from PH to give PB)	1 C/O 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 C/O 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)
Mechanical life	1 x 10 ⁶ operating cycles (average value, depending on application)
Cable entry	1 entry tapped 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 30347/3.
- (3) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



Contact block connections

Other versions

Pressure switches with alternative tapped cable entries: ISO, NPT, etc.
Please consult your Regional Sales Office.

Electromechanical pressure switches

For control circuits, type ADW

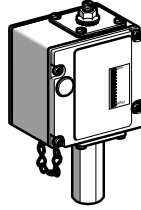
Sizes 69 to 340 bar (1000 to 4930 psi)

Adjustable differential, for regulation between 2 thresholds

Fluid connection 3/8" BSP

Pressure switches type 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)
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References

Switches with 1 C/O single-pole contact

Fluids controlled	Oils and other fluids, from - 25 °C to + 120 °C (1) (2)	ADW 5M129012	ADW 6M129012	ADW 7S1M129012
Weight (kg)		1.880		

Switches with 2 C/O single-pole contacts

Fluids controlled	Oils and other fluids, from - 25 °C to + 120 °C (1) (2)	ADW 25M129012	ADW 26M129012	ADW 27S1M129012
Weight (kg)		1.880		

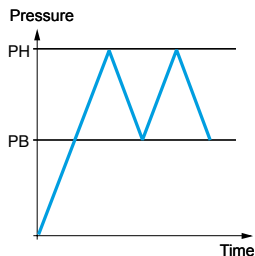
Complementary characteristics not shown under general characteristics (page 30347/3)

Possible differential (subtract from PH to give PB)	1 C/O 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 high setting	8.6/10 bar (124.7/145 psi)	28/34 bar (406/493 psi)	38/45 bar (551/652.5 psi)
	2 C/O 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)				
Mechanical life	1 x 10 ⁸ operating cycles (average value, depending on application)				
Cable entry	1 entry tapped 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 30347/3.

(2) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curve



— Adjustable value

Contact block connections



Other versions

Pressure switches with alternative tapped cable entries: ISO, NPT, etc.
Please consult your Regional Sales Office.