RP2N-RP2Y Pressure switches

All industrial environments

Reduced overall dimensions

Good vibration resistance

Resistant to short duration overpressure

Intrinsically safe version (RP2Y):

EEx ia II C T6, LCIE certificate n°94.C6052 X (valid until 30 June 2003)

New ATEX/94/C∈ certification (in progress)

Conforms to C∈ (Low voltage Directive N° 73/23/

EEC modified by N° 93/68/EEC)

These pressure switches maintain a constant pressure around a chosen set value: regulator action. They trigger an alarm or safety system, when the pressure reaches a critical pre-set value: "safety action".

Normal operation must be between 10% and 90% of the selected scale.

The deadband values in the table overleaf are defined under these conditions.

Any pulsating circuit must be fitted with pulsation dampeners.

Suitable separators must be used with incompatible process fluids. RP2Y version to be used only with an intrinsically safe electrical installation.



Technical Data (20°C)

Fluids All fluids compatible with the measuring element

from -40...+150°C

Minimum deadband Depending on the type of microswitch used (see

table overleaf)

Degree of protection IP 65 according to IEC 529 (NFC 20.010) and NF

EN 60529

Weight RP2N = 0.960 kg

RP2Y = 0.960 kg

MANUFACTURING	RP2N - RP2Y				
Body	Zamac plated black				
Housing	Polyamide PA6, blue				
Wall mounting	2 M5 screws				
Earth connection	Vial internal terminal block				
Electrical connection	Via internal terminal block witth P.G. 9 for cables 5.5 to 8.5 mm dia				
Graduated scale	Internal calibrated scale				
Pressure connection	G 1/2				
Measuring element	1.4404 s.s. (316 L) diaphragm				



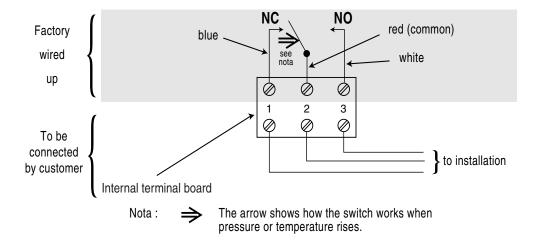
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Adjustable ranges

RP2N (standard version) - RP2Y (intrinsically safe)

		Max. P		MAXI FIXED DEADBAND				MINI-MAXI ADJUSTABLE DEADBAND	
	ŧ	tal	Standard (1xSPDT) gold contact Sealed Tropica-lized		Adjustable				
Scale	Code	Permanent	Accidental	L		M F		R	
			Acc	At 10 %	At 90 %	At 10 %	At 90 %	At 10 %	At 90 %
		la d		of scale	of scale	of scale	of scale	of scale	of scale
bar		ba	ar ————	mbar	mbar	mbar	mbar	mbar *	mbar *
0 + 1	41		50	30	60	120	330		
0 + 1.6	42	10		35	70	150	390	100 200	200 550
0 + 2.5	43			40	80	180	480	125 230	250 700
0 + 4	44			45	90	210	540	150 290	320 900
0 + 6	45			50	100	240	630	190 350	420 1200
0 + 10	46			55	110	300	750	260 500	600 1800
0 + 4	51			110	200	600	1320	500 1000	1250 2000
0 + 6	52	40	100	110	235	750	1620	550 1100	1350 2200
0 + 10	53			120	270	840	2010	650 1300	1500 2600
0 + 16	54			130	305	960	2370	800 1600	1700 3100
0 + 25	55			140	340	1050	2730	1000 2000	2000 3900
0 + 40	56			150	380	1140	3150	1400 2800	2600 5200
0 + 10	61			200	500	1500	3600	1000 2000	3000 6000
0 + 16	62		200	280	700	2100	3960	1150 2300	3500 7000
0 + 25	63	100		360	900	2700	5550	1350 2700	4200 8400
0 + 40	64			440	1100	3300	7350	1700 3400	5350 10700
0 + 60	65			520	1300	3900	9600	2100 4200	6900 13800
0 + 100	66				600	1500	4500	13200	3000 6000

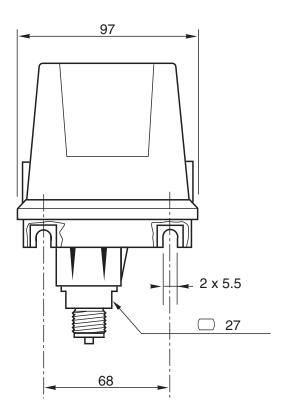
Wiring

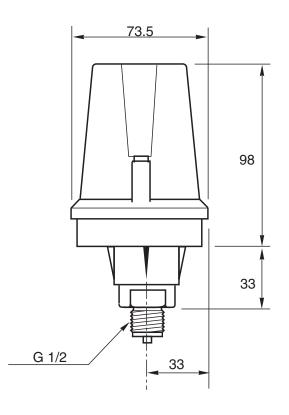


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Dimensions (mm)

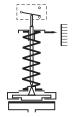
RP2N - RP2Y with fixed or adjustable deadband microswitch

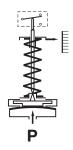




Operating principle

A flexible diaphragm actuates a microswitch by means of a piston. The set point is adjusted by means of a compressible spring installed in opposition.





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Options

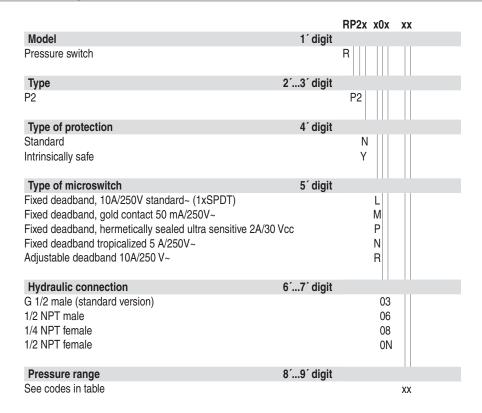
Uncoded options (have to be listed after the code number)

Stainless steel label Cleanliness for oxygen service Adjustment of the set point Connection on pipe 2" dia.

Coded options

Hydraulic connection 1/2 NPT male 1/2 NPT female 1/4 NPT female

Ordering Details - RP2



code	range in bar					
41	0	+	1			
42	0	+	1.6			
43	0	+	2.5			
44	0	+	4			
45	0	+	6			
46	0	+	10			
51	0	+	4			
52	0	+	6			
53	0	+	10			
54	0	+	16			
55	0	+	25			
56	0	+	40			
61	0	+	10			
62	0	+	16			
63	0	+	25			
64	0	+	40			
65	0	+	60			
66	0	+	100			

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