



Compact pressure switch RP2-##.####/

Overview

- Excellent repeatability
- Dead band adjustment for regulation
- Fix dead band for control
- Resistant to accidental overpressure
- Light weight



Picture similar

Technical data

Housing	
Protection rating (EN60529)	IP66
Body	Black painted, zamak
Case material	Blue, polyamide PA 6
Mounting	Wall mounting, 2 x M5 screws
Scale	Internal graduated scale
Weight	960 g
Weight Performance	960 g
	960 g 0 1 bar
Performance	5
Performance Min. pressure range	0 1 bar
Performance Min. pressure range Max. pressure range	0 1 bar 0 100 bar

Media temperature	-40°C +150°C
Wetted parts	
Process connection mater- ial	Stainless steel 1.4404 / AISI 316L
Diaphragm	Stainless steel 1.4404 / AISI 316L
Electrical data	
Electrical connection	Via internal cable gland for Ø 5.5 to 8.5 mm
Ground connection	Via internal terminal block
Adjustment	Internal adjustment possible for set point and deadband
Approval / Conformities	
CE conformity	Low Voltage Directive 2014/35/UE

-40°C ... +70°C

Temperature Storage temperature

Remarks

• These devices must be used as instruments that provide electrical information according to the value of the input variable. They are not intended to be used as a safety accessory. It is the responsibility of the user to check the compatibility of the device with its intended use.





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Dimensional drawings (mm)





Electrical connection



1 SPDT







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

Set point and reset point must be between 10% and 90% of the selected scale.

Standard factory adjustment

Setpoint at 50% of the scale on falling pressure.

Customer specific factory adjustment (option SETP)

The following specifications have to be given with the order:

Setpoint value

Adjustment on falling or raising pressure

• Dead band value (as needed) when using an adjustable dead band switch (not for RP2Y)





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Adjustable ranges

					Micro-switch dead band "					
S	cale	P. Max permanent	P. Max accidental		Adjustable	Adjustable dead band Fixed dead band				
				Code		R		L	М	- P
					10%	90%	10%	90%	10%	90%
	bar	bar	bar		mbar	mbar	mbar	mbar	mbar	mbar
0	1			41	N/A	N/A	30	60	120	330
D	1.6			42	100 - 200	200 - 550	35	70	150	390
)	2.5	10	50	43	125 - 230	250 - 700	40	80	180	480
)	4			44	150 - 290	320 - 900	45	90	210	540
)	6			45	190 - 350	420 - 1200	50	100	240	630
)	10			46	260 - 500	600 - 1800	55	110	300	750
)	4			51	500 - 1000	1250 - 2000	110	200	600	1320
)	6			52	550 - 1100	1350 - 2200	110	235	750	1620
)	10	40	100	53	650 - 1300	1500 - 2600	120	270	840	2010
)	16			54	800 - 1600	1700 - 3100	130	305	960	2370
)	25			55	1000 - 2000	2000 - 3900	140	340	1050	2730
)	40			56	1400 - 2800	2600 - 5200	150	380	1140	3150
)	10			61	1000 - 2000	3000 - 6000	200	500	1500	3600
)	16			62	1150 - 2300	3500 - 7000	280	700	2100	3960
)	25	100	000	63	1350 - 2700	4200 - 8400	360	900	2700	5500
)	40	100	200	64	1700 - 3400	5350 - 10700	440	1100	3300	7350
	60			65	2100 - 4200	6900 - 13800	520	1300	3900	9600
)	100			66	3000 - 6000	10000 - 20000	600	1500	4500	13200

1) The value of the dead band is depending on the value of the set point.

This table contains the dead band values for set point adjustment at 10% and 90% of the selected scale. For adjustable dead band the lower value corresponds to the dead and spring totally released and the higher corresponds to the dead band spring fully tensed. For other set points the dead band value can be calculated by linear interpolation between the values at 10% and 90%.





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Micro switch characteristics						
Switch code	R	L	М	Р		
_	Adjustable	Fixed dead band				
Туре	dead band	Standard	Gold contact	Ultra sensitive		
6 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A		
12 Vdc	0.4 10 A	N/A	10 50 mA	0.4 4 A		
24 Vdc	0.4 5 A	N/A	10 50 mA	0.4 4 A		
30 Vdc	0.4 5 A	N/A	10 50 mA	0.4 2 A		
48 Vdc	0.4 5 A	N/A	10 50 mA	N/A		
110 Vdc	0.2 0.5 A	N/A	10 50 mA	N/A		
220 Vdc	0.1 0.25 A	N/A	10 50 mA	N/A		
115 Vac	0.4 10 A	0.4 10 A	10 50 mA	N/A		
250 Vac	0.2 10 A	0.2 10 A	N/A	N/A		
Dielectric rigidity between contacts and ground	2000 V	2000 V	2000 V	1000 V		





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	RP2 - N #	. #
Product		• "
RP2	RP2	
ATEX		
without ATEX	Ν	
Type of Microswitch		
1xSPDT Standard change-over	L	
1 gold contact changeover switch	М	
1 hermetically ultra sensitive changeover switch	Р	
1xSPDT adjust. Dead band	R	
Process connection		
G 1/2		3
1/2 NPT		6
1/4 NPT F		8
1/2 NPT F		Ν
Pressure range (bar)		
0 +1 bar sp. up to 10bar		
0 +1.6 bar sp. up to 10bar		
0 +2.5 bar sp. up to 10bar		
0 +4.0 bar sp. up to 10bar		
0 +6.0 bar sp. up to 10bar		
0 +10 bar sp. up to 10bar		
0 +4 bar sp. up to 40bar		
0 +6 bar sp. up to 40bar		
0 +10 bar sp. up to 40bar		
0 +16 bar sp. up to 40bar		
0 +25 bar sp. up to 40bar		
0 +40 bar sp. up to 40bar		
0 +10 bar sp. up to 100bar		
0 +16 bar sp. up to 100bar		
0 +25 bar sp. up to 100bar		
0 +40 bar sp. up to 100bar		
0 +60 bar sp. up to 100bar		
0 +100 bar sp. up to 100bar		

	RP2	- N	N	Λ.	3	41
Product						
RP2	RP2					
ATEX						
without ATEX		N				
Type of Microswitch						
1 gold contact changeover switch			Ν	Λ		
Process connection						
G 1/2					3	
Pressure range (bar)						
0 +1 bar sp. up to 10bar						41





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Options

Setpoint factory adjusted	SETP	2.1 Certificate	Q001
For oxygen applications	0765	2.2 Certificate	Q002
Mounting on 2 pipe	0407	3.1 Material certificate	Q003
stainless steel label wired*	9941	3.1 Certif. setpoints adjust.	Q011
HOUSING PREPARED FOR LEAD SEAL	8991		