

RPPN4

Industrial pressure switch with high overpressure resistance RPPN-###.####/

Overview

- Excellent repeatability
- Dead band adjustment for regulation
- Fix dead band for control
- High over pressure resistant



Picture similar

Technical data

loonnour data	
Housing	
Protection rating (EN60529)	IP66
Cover	Blue painted, zamak Captive stainless steel screws
Case material	Black painted, steel
Mounting	Wall mounting bracket
Scale	Internal, accuracy on reading ± 5 % FS
Performance	
Min. pressure range	-50 0 mbar
Max. pressure range	0 2500 mbar
Repeatability	±1%FS
Temperature	
Ambient temperature	-25°C +70°C

Temperature	
Storage temperature	-40°C +70°C
Media temperature	-15°C +150°C
Wetted parts	
Process connection mater- ial	Stainless steel 1.4404 / AISI 316L
Diaphragm	FKM (Viton)
Electrical data	
Electrical connection	Via internal terminal block with plastic cable gland for \emptyset 7 to 10.5 mm
Ground connection	Via internal terminal block
Adjustment	2 external adjustment screws on top of the case for set point and deadband
Approval / Conformities	
CE conformity	Low Voltage Directive 2014/35/UE

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)













Pressure range codes: 101 - 102 - 103 - 104 Weight: 10 kg Pressure range codes: 151 - 152 - 153 - 154 Weight: 6.4 kg Pressure range codes: 171 - 172 - 173 Weight: 7 kg

Electrical connection



1 SPDT



2021-12-14 Design and specifications subject to change without notice



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A flexible sensing element actuates a microswitch by means of a lever. 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

Deadband value (as needed) when using an adjustable dead band switch





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Adjustable ranges

						Micro-switch	dead band "			
Scale	P. Max accidental	Code	Adjustable dead band				Fixed dead band			
			A (B*) M (K*)		C (W*)		E (F*)		H D(V*)	
mbar	bar		10%	90%	10%	90%	10%	90%	10%	90%
mpar	Dai					mt	bar			
-50 0	10	101	2 - 25	2.5 - 25	6.5 - 25	7.5 - 25	0.6	0.6	2.5	3
-2 10	10	102	1 - 10	1 - 10	N/A	N/A	0.4	0.4	1.5	1.5
-5 50	10	103	1 - 20	2 - 20	4.5 - 20	5 - 20	0.4	0.4	1.5	2.5
-8 100	10	104	1.5 - 25	2.5 - 25	5 - 25	10 - 25	0.5	0.5	2	3
-200 0	50	151	12 - 80	20 - 80	25 - 80	40 - 80	3	4	14.5	25
0 200	50	152	15 - 80	25 - 80	30 - 80	45 - 80	3.5	4	18	30
0 400	50	153	17 - 150	30 - 150	35 - 150	50 - 150	4	5.5	20.5	35
0 1000	50	154	22 - 150	35 - 150	45 - 150	60 - 150	6	7	26.5	45
0 700	100	171**	20 - 350	40 - 350	40 - 350	70 - 350	7	9	24	50
0 1500	100	172**	20 - 350	60 - 350	40 - 350	100 - 350	7	9	24	75
0 2500	100	173**	25 - 350	90 - 350	50 - 350	160 - 350	9	11	30	110

(*) When using 2 microswitches dead band lower values should be x1.5

(**) G1/4 female only

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 band 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%.

Micro	switch	characteristics	

Switch code	A (B)	M (K)	C (W)	E (F)	н	D (V)	J
Туре	Standard	Gold contact	Hermetic	Ultra sensitive	Manual reset	Ultra sensitive Hermetic	Manual reset
6 Vdc	0.4 10 A	10 50 mA	5 mA 4 A	0.4 1 A	N/A	0.4 4 A	N/A
12 Vdc	0.4 10 A	10 50 mA	5 mA 4 A	0.4 1 A	N/A	0.4 4 A	N/A
24 Vdc	0.4 6 A	10 50 mA	5 mA 4 A	0.4 1 A	0.1 8 A	0.4 4 A	0.1 8 A
30 Vdc	0.4 6 A	10 50 mA	5 mA 3 A	0.4 1 A	0.1 8 A	0.4 2 A	0.1 8 A
48 Vdc	0.4 6 A	10 50 mA	5 mA 3 A	N/A	N/A	N/A	N/A
110 Vdc	0.1 0.5 A	10 50 mA	5 mA 1 A	N/A	N/A	N/A	N/A
220 Vdc	0.1 0.25 A	10 50 mA	5 mA 0.5 A	N/A	N/A	N/A	N/A
115 Vac	0.4 10 A	10 50 mA	50 mA 3 A	0.4 10 A	0.1 10 A	N/A	0.1 10 A
250 Vac	0.2 10 A	N/A	50 mA 2.5 A	0.2 10 A	0.1 5 A	N/A	0.1 5 A
Dielectric rigidity between contacts and ground	2000 V	2000 V	1500 V	2000 V	2000 V	1000 V	2000 V



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Ordering key - Configuration possibilities see website	RPPN - 4	¥ # .	##
Product	KEEN - 4	т п .	T 1
RPPN	RPPN		
Sensing element			
Diaphragm, Viton® (max.2.5 bar)	4		
Type of Microswitch			
1xSPDT, Standard	,	4	
simultaneous		3	
1xSPDT, hermetically	(C	
simultaneous	N	V	
1xSPDT, ultra sensitive	l de la construcción de la constru	Ξ	
simultaneous		=	
simultaneous	,	/	
1 gold contact changeover switch	1	Л	
simultaneous	I	<	
1xSPDT, manually, falling	I	4	
1xSPDT, manually, rising		J	
Pneumatic type, NC	`	Y	
Pneumatic type, NO	:	Z	
Process connection			
G 1/4 Internal Screw		Н	
G 1/2		3	
1/2 NPT		6	
1/4 NPT F		8	
Pressure range			
-50 0 mbar			1
-2 10 mbar			1
-5 50 mbar			1
-8 100 mbar			1
-200 0 mbar			1
0 200 mbar			1
0 400 mbar			1
0 1000 mbar			1
0 700 mbar			1
0 1500 mbar			1
0 2500 mbar			1

Ordering example

	RPPN - 4 A 3 . 101 / SETP
Product	
RPPN	RPPN
Sensing element	
Diaphragm,Viton® (max.2.5 bar)	4
Type of Microswitch	
1xSPDT, Standard	A
Process connection	
G 1/2	3
Pressure range	
-50 0 mbar	101
Adjustment	
Setpoint factory adjusted	SETP



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Options

Setpoint factory adjusted	SETP
For oxygen applications	0765
Mounting on 2 pipe	0407
Souriau connection	2298
Souriau mobile plug	2249
stainless steel label wired*	9941

Setpoint adjust. lead sealed	8990
2.1 Certificate	Q001
2.2 Certificate	Q002
3.1 Material certificate	Q003
3.1 Certif. setpoints adjust.	Q011