

### CHARACTERISTICS

		HZ9NC50 Vacuum switch	HZ9NP50 Pressure switch
Ambient temperature		0 ÷ 50 °C	
Fluid		filtered air, inert gases non-corrosive non-flammable	
Working pressure		-1 ÷ 1 bar	0 ÷ 10 bar
Pressure range		-1 ÷ 1 bar	-1 ÷ 10 bar
Max. pressure		3 bar	15 bar
Set pressure resolution	kPa	0,1	-
	MPa	-	0,001
	kgf/cm <sup>2</sup>	0,001	0,01
	bar	0,001	0,01
	psi	0,01	0,1
	InHg	0,1	-
Hysteresis		adjustable <sup>(A)</sup>	
Weight		about 86 g	



(A) = Hysteresis value is adjustable within 1 ÷ 8 digits for one point set mode and window comparator mode

### CODIFICATION KEY

H	Z	9	N	P	5	0	0	1	0			
1	2	3	4	5								

<b>1 Series</b> HZ9N = Digital Pressure switch/ Vacuum switch  Standard version 2 m cable	<b>2 Pressure range</b> C = Vacuum switch - Compound (-1 ÷ 1 bar) P = Pressure switch - Positive (0 ÷ 10 bar)	<b>3 Type</b> 50 = IP65
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<b>4 Output signal</b> 010 = 2 NPN outputs + 1 analog output (1-5V) 011 = 2 NPN outputs + 1 analog output (4-20mA) 02 = 2 NPN outputs + copy function 030 = 2 PNP outputs + 1 analog output (1-5V) 031 = 2 PNP outputs + 1 analog output (4-20mA) 04 = 2 PNP outputs + copy function	<b>5 Options</b> L05 = Cable 5 m
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### ELECTRICAL CHARACTERISTICS

<b>Power supply voltage</b>		12 ÷ 24V DC ± 10%, ripple max ≤ 10%
<b>Switch output</b>	PNP/NPN	open collector 2 outputs
	Max. load current/supply voltage	125 mA/24 V DC
	Residual voltage	≤ 1,5 V
<b>Repeatability (switch output)</b>		≤ ± 0,2% F.S. ± 1 digit
<b>Analog output (voltage output)</b>	Voltage	1-5 V ± ± 2,5% F.S.
	Linearity	≤ ± 1% F.S.
	Output impedance	about 1k Ω
	Current	4 ÷ 20 mA ± ± 2,5% F.S.
<b>Analog output (current output)</b>	Linearity	≤ ± 1% F.S.
	Max./Min. load impedance	250 Ω a 12 V DC, 600 Ω a 24 V DC/50 Ω
<b>Environment</b>	Enclosure	IP65
	Storage temperature	-10 ÷ 60°C (no condensation or freezing)
	Humidity	35 ÷ 85% relative humidity (no condensation)
	Withstand voltage	1000 V AC in 1-min between case and lead wire
	Insulation resistance	≥ 50 MΩ (a 500 V DC, between case and lead wire)
	Vibration	total amplitude 1,5 mm o 10G, 10Hz ÷ 150Hz, 10Hz for 1 minute, 2 hours direction X,Y, Z
	Shock	100m/s <sup>2</sup> (10G), 3 times direction X,Y, and Z
<b>Connections</b>		R1/8 - M5F
<b>Temperature characteristic</b>		± 2,5% F.S. of detected pressure (25°C) at temperature range of 0-50°C

HZ9N1F-50	HZ9N2F-51	HZ9N2F-52
Adapter for panel assembly + protection cap	Support	Support