

CHARACTERISTICS

		HZ9NC Vacuum switch	HZ9NP 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 ²	0,001	0,01
	bar	0,001	0,01
	psi	0,01	0,1
	mmHg	0,1	-
Hysteresis		adjustable ^(A)	
Weight		about 80 g (with 2 mt lead wire), about 45g (with M8 connector)	

(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	0	4	M	0	8
1	2	3	4						

1 Series HZ9N = Digital Pressure switch/Vacuum switch Standard version 2 meters cable	2 Pressure range C = Vacuum switch - Compound (-1 ÷ 1 bar) P = Pressure switch - Positive (-1 ÷ 10 bar) P40 = Pressure switch - Positive (0 ÷ 10 bar) HZE regulator and filter-regulator assembly	3 Output signal 010 = 1 NPN output + 1 analog output (1-5V) 011 = 1 NPN output + 1 analog output (4-20mA) 02 = 2 NPN outputs 030 = 1 PNP output + 1 analog output (1-5V) 031 = 1 PNP output + 1 analog output (4-20mA) 04 = 2 PNP outputs
4 Options M08 = M8 4 Pin male (Standard) M12 = M12 4 Pin male (upon request)		

ELECTRICAL CHARACTERISTICS

Power supply voltage		12 ÷ 24V DC ± 10%, ripple max ≤ 10%
Switch output	PNP/NPN	open collector 2 outputs
	Max. load current/supply voltage	125 mA/24 V DC
	Residual voltage	≤ 1,5 V
Repeatability (switch output)		± 0,2% F.S. ± 1 digit
Analog output (voltage output)	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.
Analog output (current output)	Linearity	≤ ± 1% F.S.
	Max./Min. load impedance	300 Ω a 12 V DC, 600 Ω a 24 V DC/50 Ω
Environment	Enclosure	IP40
	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 and Z
	Shock	100m/s ² (10G), 3 times direction X,Y and Z
Connections		R1/8 - M5F
Temperature characteristic		± 2% F.S. of detected pressure (25°C) at temperature range of 0-50°C

HZ9N1F	HZ9N2F	HZ9NM08-0200	DHF-...
Adapter for panel assembly + protection cap	Supports (2 pcs)	M8 Extension 2m Cable	In-line M12 connection 3m cable DHF-033M12 In-line M12 connection 5m cable DHF-053M12