



Kompaktní snímač tlaku MBS 1900
pre aplikáciu vzduch - voda

Vlastnosti



- Navrhnutý pre aplikáciu voda - vzduch
- Súčasti vyrobené z nehrdzavejúcej ocele (AISI 304)
- Rozsah tlaku relatívny alebo absolútny
0 - 25 bar
- Výstupný signál: 4 - 20 mA
- Absolútny alebo relatívny senzor
- Široké rozpätie tlakov a elektrických pripojení
- Digitálne kompenzovaný

Popis

Snímač tlaku MBS 1900 je navrhnutý pre použitie voda - vzduch ako vzduchové kompresory, pumpy.

Flexibilný tlakový rozsah s pokrytím diferenčného výstupného signálu, absolútna aj relatívna verzia. Rozsah merania 0 - 4 až 0 - 25 bar a široký rozsah tlakov a elektrických pripojení.

Priložený materiál je z nehrdzavejúcej ocele AISI 316L

Objednávky štandardné verzie

Rozsah merania P _e	Typ	Objednávaci kód
0 - 6 bar	MBS 1900 - 1811 - A0AB04	064G6501
0 - 10 bar	MBS 1900 - 2011 - A0AB04	064G6502
	MBS 1900 - 2011 - A1PT04	064G6543
0 - 16 bar	MBS 1900 - 2211 - A1AB04	064G6523
	MBS 1900 - 2211 - A0GB04	064G6511
	MBS 1900 - 2211 - B1GB04	064G6533
	MBS 1900 - 2216 - B1GB04	064G6532
	MBS 1900 - 2211 - A1PT04	064G6542
0 - 25 bar	MBS 1900 - 2411 - A0AB04	064G6504
0 - 100 psi	MBS 1900 - 5811 - A0AC04	064G6514
0 - 200 psi	MBS 1900 - 6211 - A0AC04	064G6515
0 - 250 psi	MBS 1900 - 6311 - A0AC04	064G6510
	MBS 1900 - 6311 - B1AC04	064G6528
	MBS 1900 - 6316 - B1AC04	064G6529
0 - 300 psi	MBS 1900 - 6411 - A0AC04	064G6516

Schválenie

UL Approval,  us
Certificate number: E31024



Technická dokumentácia

Snímač tlaku pre vodu - vzduch - snímač tlaku MBS 1900

Technické dáta

Performance (EN 60770)

Accuracy (@20°C) (incl. non-linearity, hysteresis and repeatability)	±1% FS
Non-linearity BFSL (conformity)	≤ ±0.5% FS
Hysteresis and repeatability	≤ ±0.1% FS
Total error band inside the compensated temperature range	±3%
Response time	< 4 ms
Overload pressure (static)	3 × FS (max. 75 bar)
Burst pressure	4 × FS (max. 100 bar)
Durability, P: 10-90% FS	>10×10 ⁶ cycles

Electrical specifications

	Nom. output signal (short-circuit protected)	
	4 – 20 mA	Ratiometric (10-90% of V _{supp})
Supply voltage [U _s], polarity protected	9 28 V	5 V ± 10%
Supply - current consumption	-	≤ 5 mA
Supply voltage dependency	≤ ±0.2% FS/10 V	
Load [R _L] (load connected to 0 V)	R _L ≤ (U _s -9V)/0.02 A	R _L ≥ 5 KΩ @ 5 V d.c.
Output impedance	-	< 25 Ω

Environmental conditions

Medium temperature range	0 +80°C		
Ambient temperature range (depending on electrical connection)	-20°C + 80°C		
Compensated temperature range	0 + 80°C		
Transport temperature range	-50 +85°C		
EMC - Emission	EN 61000-6-3		
EMC Immunity up to 2.7 GHz	EN 61000-6-2		
Insulation resistance	> 100 MΩ at 500 V		
Vibration stability	Sinusoidal	15g, 5 Hz - 2 kHz	IEC 60068-2-6
	Random	7.2g _{rms} , 5 Hz - 1 kHz	IEC 60068-2-64
Shock resistance	Shock	200g / 1 ms	IEC 60068 - 2 - 27
	Free fall		IEC 60068 - 2 - 32
Enclosure (depending on electrical connection)	see page 5		

Mechanical characteristics

Materials	Wetted parts	EN 10088-1; 1.4301 (AISI 304) EN 10088-1; 1.4404 (AISI 316L)
	Enclosure	EN 10088-1; 1.4404 (AISI 316L)
	Electrical connections	see page 5
Weight (depending on pressure connection and electrical connection)		0.15 - 0.3 kg

Mounting instructions

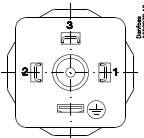
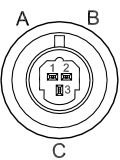
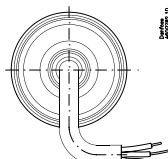
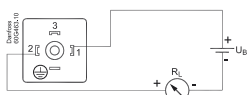
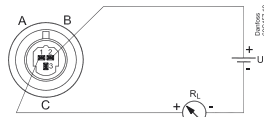
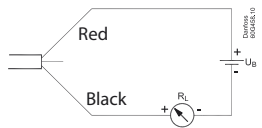
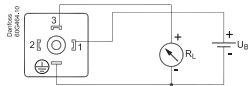
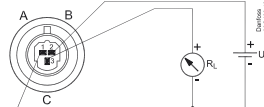
Width across flats	24 mm
Mounting torque max.	20 Nm



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Elektrické napojenie

Type code, page 4		A0, A1	B1	A3
		EN 175301-803-A 	Round Packard metripack 150.2 	2 m screened cable 
Ambient temperature		-20 + 80°C	-20 + 80°C	-20 + 80°C
Enclosure (IP protection fulfilled together with mating connector)		IP 65	IP 65	IP 67
Materials		Glass filled polyamid, PA 6.6	Glass filled, PBT	Glass filled polyamid, PA 6.6. PVC
Electrical connection	4 - 20 mA (2 wire)	Pin 1: + supply Pin 2: ÷ supply Pin 3: Not used Earth: Not connected to MBS enclosure 	Pin 1 (A): - supply Pin 2 (B): + supply Pin 3 (C): Not used 	Black: - supply Red: + supply Brown: Not used Screen: INot connected to MBS enclosure 
	Ratiometric 10 - 90%	Pin 1: + supply Pin 2: ÷ supply Pin 3: Output Earth: Not connected to MBS enclosure 	Pin 1 (A): - supply Pin 2 (B): + supply Pin 3 (C): Output 	Black: - supply Red: + supply Brown: output signal Screen: INot connected to MBS enclosure 