Flow rate sensors for gaseous media with an end value of up to 100 Nm³/h | LDN 1009 GAPL

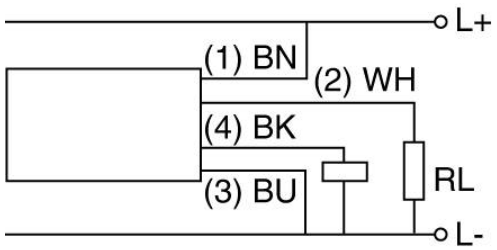
- Mass flow rate sensor with amplifier for air flows
- Programming and output also via IO-Link
- Measurement of small volumes
- Detection of rapid pneumatic switching processes
- Detection of leaks Compressed air consumption measurement in small pneumatic systems

0,04...15,00 Nm³/h - 0,5...250,0 Nl/min



TYPE	LDN 1009 GAPL
Product ID	P11373
Medium	air
Detection range compressed air (Nm³/h)	0,04 ...15 Nm³/h
Detection range compressed air (Nl/min)	0,5...250 Nl/min
Temperature monitoring	0 °C ... 60 °C
Process connection	G1/4
Output	switching output NO/NC PNP/NPN, analog output 4...20 mA, linear, IO-Link, pulse output PNP/NPN NO
Process data consumption pressured air	0...999999 x 10⁶ [Nm³ x 0.01]
Process data flow	0...1500 [Nm³ x 0,01]
Process data temperature	0...600 [°C x 0,1]
Measurement error	flow ± (4 % of measurement value + 0.5 % of end value) / temperature ± 2 °C
Supply voltage	24 V DC +/- 10 %

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Supply voltage	18 V DC ... 30 V DC
Current consumption max.	70 mA
Switching current max.	150 mA
Load RL	200 Ω ... 500 Ω
Ambient temperature	0 °C ... 60 °C
Medium temperature	0 °C ... 60 °C
Start-up time	4 ... 12 s
Reaction time	< 0,3 s
Programmable functions	switching point, analog range, impulse, min/max memory, average value, access code, NC/NO
IO-Link-Specifications	revision 1.1, baud rate COM 2, min. cycle time 5 ms, process data 8 byte
Compressive strength	16 bar
Material sensor touched by medium	aluminum, stainless steel, ceramic, PA
Material housing	PBT
Protection [EN 60529]	IP 54
Electrical connection	M12 connector
Accessories	mounting plate 72 x 63 x 3
Note	* reference 1013 mbar / 20 °C
Pin Map	 (2) WH: 4...20 mA PNP/NPN Input 4 (BK): PNP/NPN Pulse IO-Link RL: 200...500 Ohm

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