

Air flow sensor • with IO-Link

Series LDN 1000 GABL

Mass flow measurement

Configurable via IO-Link

Compressed air measurement

Monitoring of temperature

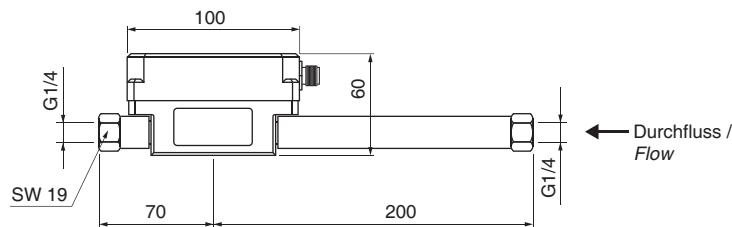
Use
IO-Link
 Universal · Smart · Easy



Design

G1/4

Dimensions



Detection ranges air

Flow¹ [Nm³/h] [NI/min] 0.04...15.00 / 0.5...250.0

Temperature [°C] 0.0...60.0

Output

/ / / IO-Link

PNP/NPN-NO/NC 200 mA (20 °C) / 4...20 mA / pulse output PNP/NPN-NO / IO-Link

P11373

ID-No.

Type

LDN 1009 GABL

Process data

Consumption [Nm³ x 0.001] 0...999999 x 10⁶

Flow [Nm³/h x 0.01] 0...1500

Temperature [°C x 0.1] 0...600

Measurement error

flow: ±(4 % of measurement value + 0.5 % of end value) / temperature: ±2 °C

Supply voltage [V] 18...30 DC

Current consumption [mA] ≤ 70

Ambient temperature [°C] 0...+60

Medium temperature [°C] 0...+60

Start-up time / Reaction time [s] 4...12 / <0.3

Adjustable parameters output functions, switching points, units, range, average value, MIN/MAX value

revision 1.1, baud rate COM 2, min. cycle time 5 ms, process data 8 Byte

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Material housing: PBT-GF30 sensor: aluminium, stainless steel, ceramic, PA

IP 54

Protection

[EN 60529]

M12 connector

Connection

¹ Reference 1013 mbar / 20 °C

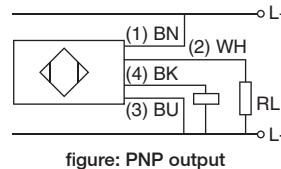


figure: PNP output

2 (WH): 4...20 mA / PNP/NPN output / Input
 4 (BK): PNP/NPN output / pulse output / IO-Link
 RL: 200...500 Ohm

Accessories

Mounting plate 72x63x3 (Z01217), IO-Link/USB master set (Z01216), page 1.98