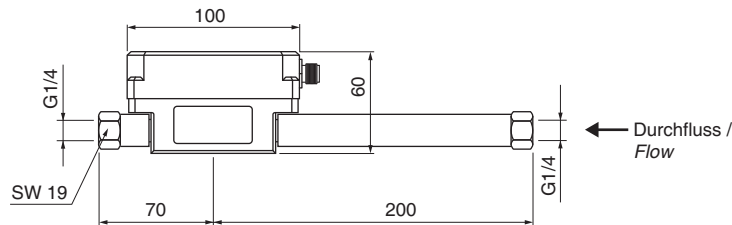# Air flow sensor | with IO-Link

Mass flow measurement

Configurable via IO-Link

Compressed air measurement

Monitoring of temperature
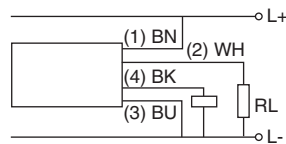
Use
IO-Link
Universal · Smart · Easy

Design	G1/4
Dimensions	

Detection ranges air	
Flow[1] [Nm³/h] [Nl/min]	0.04...15.00 / 0.5...250.0
Temperature [°C]	0.0...60.0
Output	PNP/NPN-NO/NC 200 mA (20 °C) / 4...20 mA / pulse output PNP/NPN-NO / IO-Link
ID-No.	P11373
Type	LDN 1009 GAPL
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
IO-Link-Specifications	revision 1.1, baud rate COM 2, min. cycle time 5 ms, process data 8 Byte
Compressive strength [bar]	16
Material	housing: PBT-GF30 sensor: aluminium, stainless steel, ceramic, PA
Protection [EN 60529]	IP 54
Connection	M12 connector

[1] Reference 1013 mbar / 20 °C

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

figure: PNP output

Accessories	Mounting plate 72 x 63 x 3 (Z01217), IO-Link / USB master set (Z01216), page 1.113