

Air flow sensor • with IO-Link

Series LDS 1000 GAPL

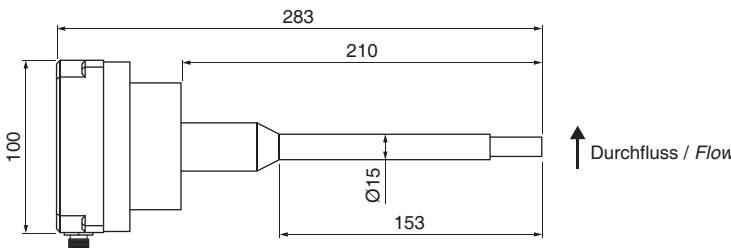

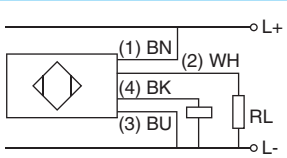
Dynamic pressure principle

Plug-in sensor for big pipes

Consumption measurement

Configurable via IO-Link



Design	Ø 15
Dimensions	
Detection ranges air	depending on inner pipe diameter $d=38...200$ [mm]
Flow [Nm ³ /h]	example $d=38$: 14...1400, $d=50$: 27...2650, $d=100$: 121...12150, $d=200$: 515...51500
Temp. / Pressure [°C] / [bar abs]	0...60 / 0.00...14.00
Output	 PNP/NPN-NO/NC 200 mA (20 °C) / 4...20 mA / pulse output PNP/NPN-NO / IO-Link
ID-No.	P11383
Type	LDS 1000 GAPL
Process data	
Consumption [Nm ³ x 0.001]	0...999999 x 10 ⁶
Flow [% x 0.01]	0...10000
Pressure [bar x 0.1]	0...140
Temperature [°C x 0.1]	0...600
Measurement error	flow: \pm (8 % of measurement value + 0.5 % of end value) / temperature: \pm 2 °C
Supply voltage [V]	18...30 DC
Current consumption [mA]	\leq 105
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 6 ms, process data 10 Byte
Compressive strength [bar]	11 (burst pressure 16)
Material	housing: aluminium, PBT-GF30 sensor: aluminium, stainless steel, ceramic, epoxy
Protection [EN 60529]	IP 54
Connection	M12 connector
¹ Reference 1013 mbar / 20 °C	
Note: Screw-in union G1/2 (zinc-coated steel) is part of delivery	 <p>2 (WH): 4...20 mA / PNP/NPN output / Input 4 (BK): PNP/NPN output / pulse output / IO-Link RL: 200...500 Ohm</p>
Accessories	IO-Link/USB master set (Z01216), screw-in union G1/2-Ø 15 (Z01290), weld-on union Ø 30 (Z01291)