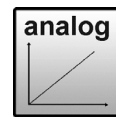# IPF ELECTRONIC

AbN automation

SL870024

Flow sensor
Programmable air flow sensors

/ **Mass flow measurement of air**
/ **Consumption measurement in compressed air networks**
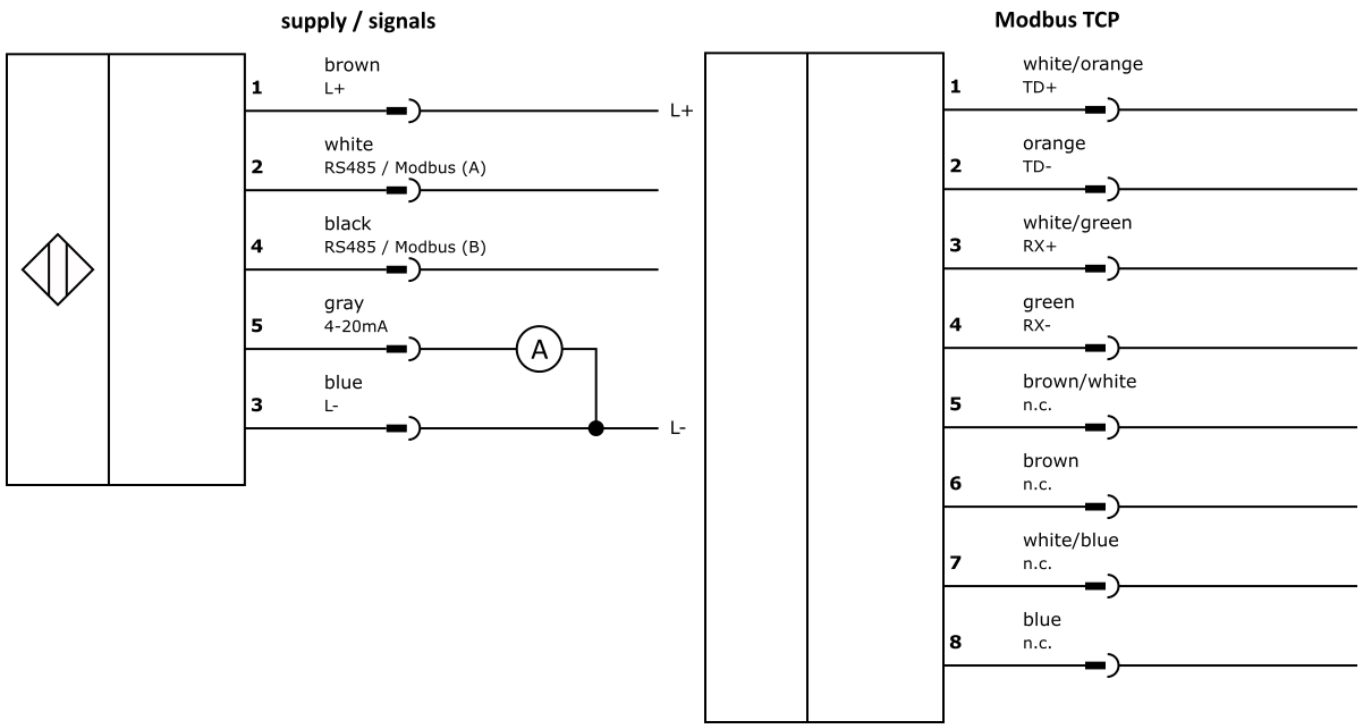/ **TFT display**
/ **Easy installation under pressure**

Modbus TCP, Ethernet interface
Analog output

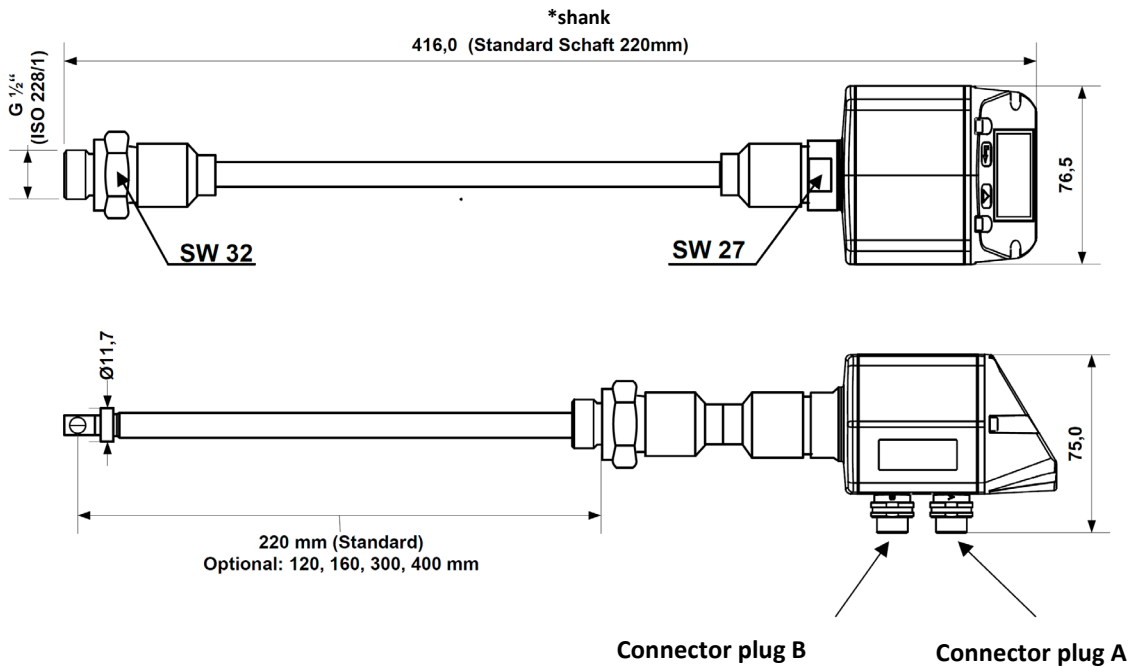Ethernet | analog | M12 | DC

TECHNICAL DATA

Measured variables	Flow, consumption and speed
Reference standard	Standard setting ex works: DIN 1945, ISO 1217 at 20°C and 1,000mbar other standard states adjustable via keypad
Adjustable units	m³/h (Default setting ex works) m³/min, l/min, l/s, ft/min, cfm, m/s, kg/h, kg/min, kg/s, °C, °F
Measuring principle	calorimetric measurement
Sensor	Pt45, Pt1000
Measuring medium	Air, gases
Ambient temperature	Sensor tube: -30 ... 110°C Housing: -20 ... 70 °C
Operating pressure	up to 50 bar (pressure > 10bar a high pressure safety device is strongly recommended)
Power supply	12 … 36 VDC
Power consumption	max. 5W
Interface	Modbus TCP
Analog output	4...20 mA, max. load < 500 Ohm
Accuracy	± 1,5 % from measured value ± 0,3 % from final value
Display	TFT 1.8" Resolution 220 x 176
Screw-in thread	G1/2"
Tube diameter	G1/2" … DN 1,000
Installation	1/2"- Threaded connection or tapping clamp with ball valve
Material	stainless steel 1.4301 / polycarbonate
Protection class (EN 60529)	IP65
Connection	1 x M12-connector, 5-pin / 1 x M12-connector, 8-pin (X- encoded)

Electrical connection

supply / signals

1	brown L+
2	white RS485 / Modbus (A)
4	black RS485 / Modbus (B)
5	gray 4-20mA
3	blue L-

Modbus TCP

1	white/orange TD+
2	orange TD-
3	white/green RX+
4	green RX-
5	brown/white n.c.
6	brown n.c.
7	white/blue n.c.
8	blue n.c.

Dimensional drawing

*shank
416,0 (Standard Schaft 220mm)

G ½" (ISO 228/1)

76,5

SW 32   SW 27

Ø11,7

75,0

220 mm (Standard)
Optional: 120, 160, 300, 400 mm

Connector plug B   Connector plug A

SAFETY INSTRUCTIONS:

Before commissioning, please make sure that all safety instructions listed in the product documentation, if applicable, have been observed!

If there is a direct effect on personal safety, the use of these products is prohibited.