2024-03-04

8652AVBP4JA001N

Series AF2

The pressure dew point must be at least 15 °C below the ambient and medium temperatures and must not exceed 3 °C. The protection class is only ensured when the plug is mounted properly. See the operating instructions for further information. If not separated sufficiently, drifting may result. Precision: Standard measurement range: ±4 % of measured value, + 0.5 % of final value. Extended measurement range: ±8 % of measured value, + 1 % of final value.





Technical data

Compressed air connection

Industry Industrial

Note Integrated web server, 48 VDC connection via

> Power over Ethernet Without mounting

Frame size

Switching principle Flow measuring principle: calorimetric

Protocol Ethernet

> TCP/IP OPC UA **MQTT**

Nominal flow 1630 I/min Nominal flow Qn min., standard 8 I/min Nominal flow Qn max., standard 1630 I/min Nominal flow Qn min., extended 1630 I/min Nominal flow Qn max., extended 2445 I/min 1/2 NPT

Certificates CE declaration of conformity

RoHS

UL (Underwriters Laboratories)

Min. working pressure 0 bar 16 bar Max. working pressure -20 °C Min. ambient temperature 50 °C Max. ambient temperature Min. medium temperature -20 °C 50 °C Max. medium temperature

8652AVBP4JA001N 2024-03-04

Medium Compressed air

Argon Nitrogen

Carbon dioxide

Filter porosity 5 µm
Display OLED
Flow display unit I/sec I/min

m³/min m³/h ft³/s m³/min

Pressure display unit bar

psi

Temperature display unit °C

°F

Electrical connection 2, type Plug
Electrical connection 2, thread size M12x1
Electrical connection 2, number of poles 8-pin
Electrical connection 2, coding X-coded

Output signal OPC UA, MQTT, Integrated web server

Max. power consumption5 WOperational voltage24 V DCMin. operating voltage DC36 V DCMax. operating voltage DC57 V DCResponse time< 0.3 s</td>Max. shock resistance30 g, 11 ms

Vibration resistance 1 g (10 - 2000 Hz) IEC 60068 - 2-6 Reproducibility ± 1.5% of the measured value

Protection class IP65

IP67 according to IEC 60529

Weight 0.73 kg

Material

Housing material Polyamide

Polycarbonate Aluminum

Seal material filter Nitrile butadiene rubber
Seal material sensor Fluorocarbon caoutchouc

Part No. 8652AVBP4JA001N

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Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

The device is designed to be installed in AS series air preparation units or to be fitted as a standalone device using a W05 block assembly kit.

Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.

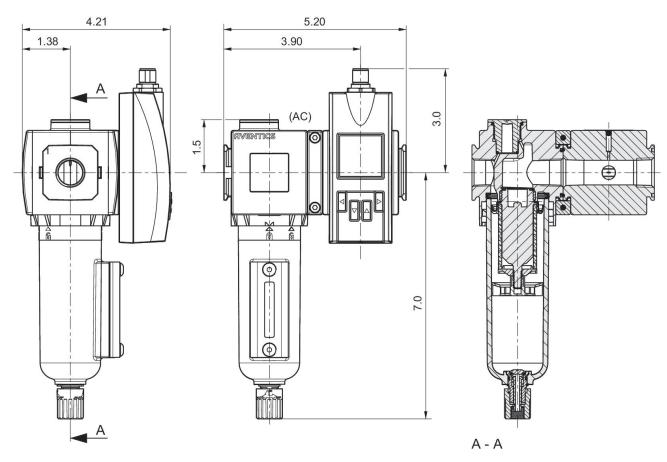
5 microns - $\pm 4\%$ of measured value + 0.5% of standard full scale $\pm 8\%$ of measured value + 1% of extended full scale

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

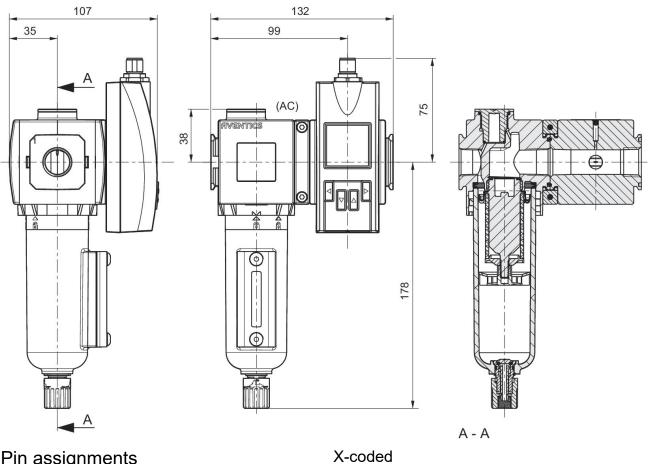
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions in inches



8652AVBP4JA001N 2024-03-04

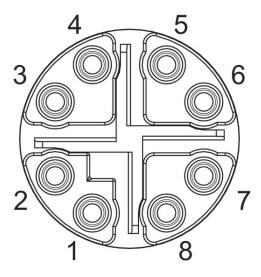
Dimensions in mm



Pin assignments M12

2024-03-04

8652AVBP4JA001N



Pin assignments

· ··· s.s.s.g				
Pin	RJ45	Wire color	Identification	10/100 Mbit
1	1	WH / OG	TX(+) + POE	TxData+
2	2	OG	TX(-) + POE	TxData+
3	3	WH / GN	RX(+) - POE	TxData-
4	6	GN	RX(-) - POE	TxData-
7	5	WH / BU	POE+	
8	4	BU	POE+	
5	7	WH / BN	POE-	
6	8	BN	POE-	