

- Ideal for all types of compressed air dryers with different measuring ranges such as -80...+20°Ctd or -20...+50°Ctd
- Condensation-resistant sensor element
- Long-term stability and drift-resistant
- Gas-independent measurement, also suitable for other, non-corrosive gases
- Fast adjustment time, especially in the event of moisture ingress
- Protection class IP 65
- Analog output 4...20 mA and Modbus RTU (RS 485) interface
- Modbus TCP PoE (Ethernet)
- Measured values available in various units, pressure dew point [°Ctd], temperature [°C], rel. humidity [%rh], abs. humidity [g/m<sup>3</sup>], degree of humidity [g/kg], moisture content V/V [ppmV/V], water vapor partial pressure [hPa], atmospheric dew point [°Ctd.atm]



## Series DS1 Pressure Dew Point Sensor

With the DS1, you are making the right choice for maximum precision in dew point measurements. Our sensor offers a wide spectrum are of measuring ranges that are perfectly matched to the needs of different compressed air dryers. With the DS1, you are also able to determine the dew point in your maintenance unit and identify if moisture is leaking into your application. Rely on our DS1 for accurate results in every situation.

## Dados técnicos

Setor

Área de medição

Precisão

Pressão de operação mín.

Pressão de operação máx

Tensão de operação

Tipo de proteção

Certificados

Temperatura ambiente mín.

Temperatura ambiente máx.

Temperatura mín. do#fluido.

Temperatura máx. do#fluido.

Nota

Display

Indústria

-80 ... +20 °Ctd

± 1°C at + 50 ... - 20 °Ctd

± 2°C at - 20 ... - 50 °Ctd

± 3 °C at - 50 ... - 80 °Ctd

-1 bar

50 bar

24 V CC

10-30 V DC

IP65

EMV de acordo com a DIN EN 61326-1

-40 °C

80 °C

-20 °C

70 °C

ideal 0...50 °C

TFT 1.8"

# Dew point sensor DS1

R412029133

Série DS1

2024-10-17

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Área de visualização	- 20 ... 50 °C
Conexão elétrica tipo	2x Tomada
Conexão elétrica tamanho	M12
Conexão elétrica número de polos	de 5 pinos
PC Conexão	Modbus-RTU Interface (RS 485)
Sinal de saída	4 ... 20 mA = - 20 ... 50 °Ctd
Carga	< 500
Peso	0.408 kg

## Material

Material de caixa	Poliamida com reforço de fibra de vidro (PA 66 GF)
N° de material	R412029133

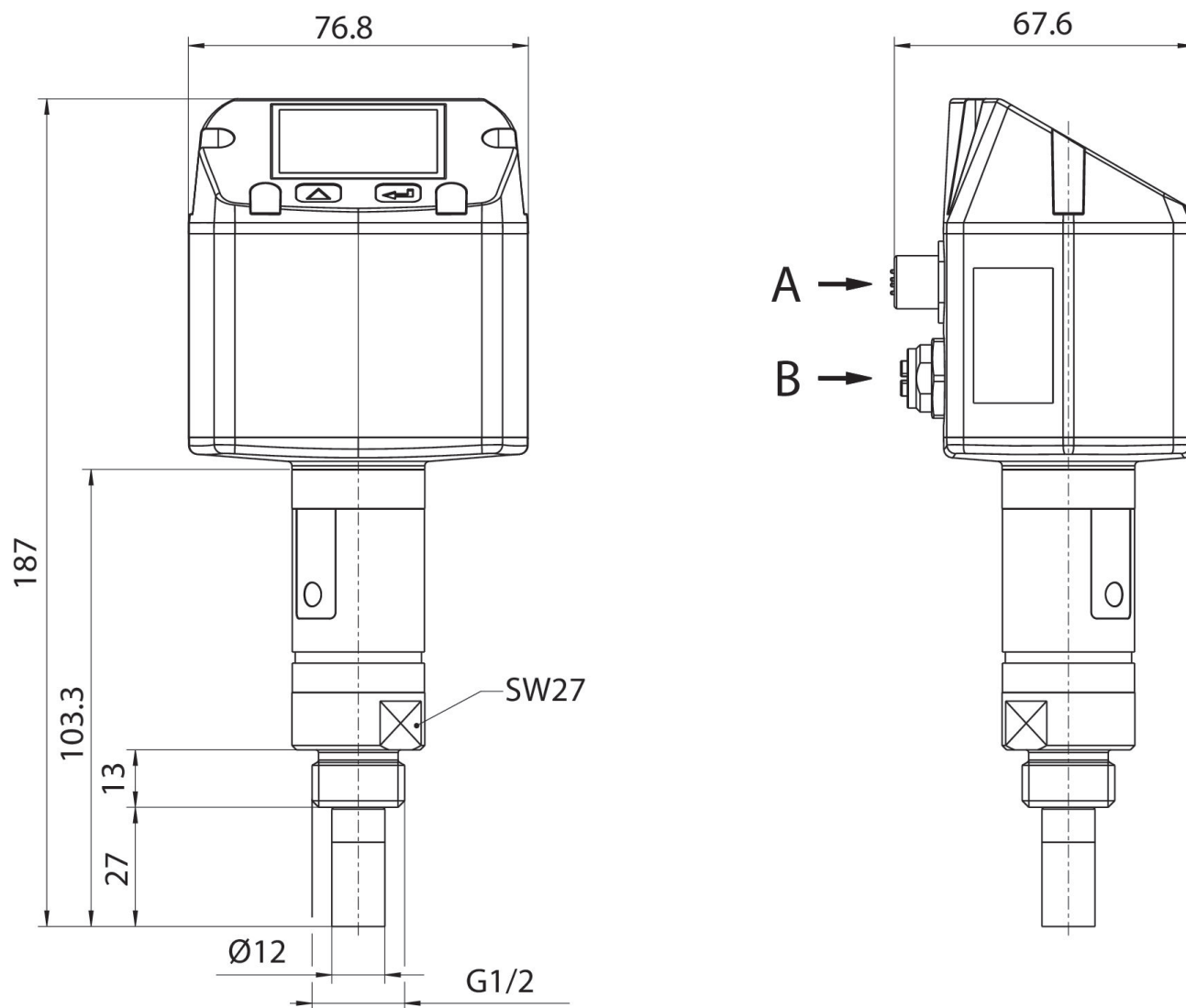
# Dew point sensor DS1

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Série DS1

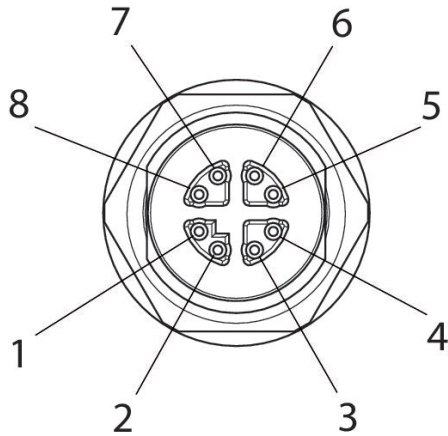
2024-10-17

## Dimensões

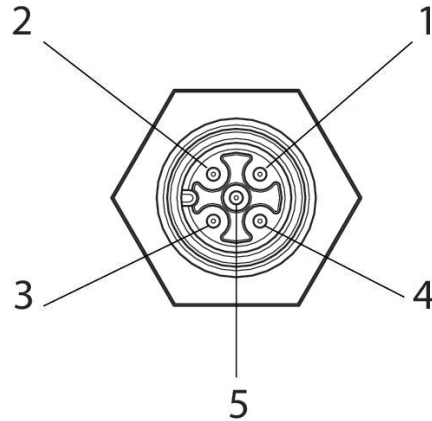


- A) tomada M12 5 pinos
- B) tomada RJ45, 8 pinos

## tomada RJ45, 8 pinos



## tomada M12 5 pinos



## Ocupação dos pinos

Pino	Ocupação
1	OG-WH
2	OG
3	GN-WH
4	GN
5	BN-WH
6	BN
7	BU-WH
8	BU

## Ocupação dos pinos

Pino	Ocupação
1	+VB
2	RS 485 (A)
3	-VB (GND)
4	RS 485 (B)
5	I+ (4 ... 20 mA)