

DT24310J

Pressure sensors • Pressure transmitter

Pressure transmitter, Ø24mm, 57 long, -1-1bar, 9-30V DC, G1/4 "A, 4-20mA, M12 plug connector 4-pin, IP67, stainless steel V4A



compact design robust VA housing

The indestructible pressure transmitters of the DT24 series with ceramic measuring cell have been designed for use with all gaseous and liquid media of fluid group 2. The measured values can be easily output via the integrated analog output (4... 20mA) on a PLC (programmable logic controller) or an external display device. The pressure transmitters impress with their very low long-term drift.

Advantages

- Robust version in stainless steel housing (degree of protection IP67) and ceramic measuring cell
- Media temperature range (-25 °C...+100 °C)
- Short response time (< 3 ms)
- Low long-term drift (≤0.1% per year)

Electrical features

Initial setting	-1000 - 1000 hPa
Response/decay time	3 ms
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Load resistance (current output)	0.5 kOhm
No-load current	25 mA
Measuring range pressure	-1 - 1 bar
Measurement method	Relative
Number of pins	4
Relative linearity deviation	0.5 %
Relative repeat accuracy	0.2 %
Protection class	III
Temperature drift over entire measuring range	1.5 %
Operating voltage (DC)	9 - 30 V
Electrical connection	M12 4-pin plug connector
Operating voltage	9-30VDC
ardTEEL_Schutzfunktionen	Short circuit protection Reverse polarity protection

Mechanical features

Type of process connection	G1/4 inch
Design	Cylinder plain
Bursting pressure	20 bar
Diameter	23.9 mm
Storage temperature	-30 - 85 °C
Length	56.3 mm
Max. operating pressure	10 bar
Medium temperature	-25 - 100 °C
Wrench size	22 mm
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4404
Seal material at process connection	Plastic (FKM)
Long-term drift per year	0.1 %
Ambient temperature	-25 - 80 °C
dimensions	Ø23.9mm, 56.3mm long
Material of the process connection	Stainless steel 1.4404
Material of the measuring cell	Ceramic

Other features

Suitable for	Fluid group 2
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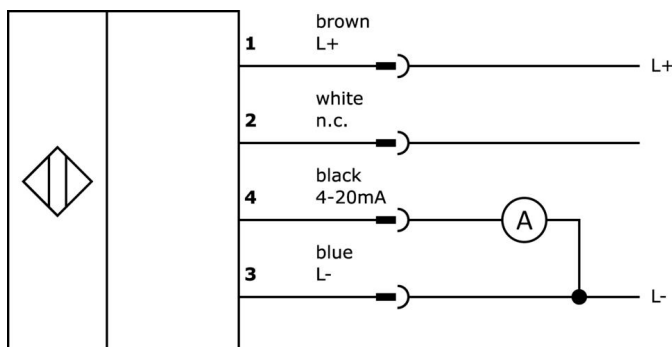
Classification

ETIM 8

More


IPF Product Group	361 pressure sensors (diverse)
packaging dimensions	
gross weight	
Customs tariff number	90262020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection




Extract accessories program


VK205321

 Connection cable, 2m, M12 socket 4-pin angular, free cable end, 4x0.34mm², PUR (polyurethane), Ø5.5mm, 250V, -25-90°C, IP67, shielded, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free


VK205325

 Connection cable, 2m, M12 socket 4-pin straight, free cable end, 4x0.34mm², PUR (polyurethane), Ø5.5mm, 250V, -25-90°C, IP67, shielded, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK003020

 Cable socket, angular, self-assembly, screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 socket 4-pin, IP67, PBT


VK003024

 Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Female (socket) 4pin, IP67, PBT

AD000018

 Pressure accessories, adapter, G1/4 - G1/2, 24 long, stainless steel V4A, FKM


AD000028

 Pressure accessories, adapter, G1/4 - G1/2, 24 long, galvanized steel (galv.steel), NBR

AD000017

 Accessories pressure, adapter, G1/4, 26lang, V4A

AD000026

 Accessories Throttle screw, M5x6mm, stainless steel 1.4404

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.