

Pressure transmitter for pump application series EDN.332

All st. steel for wetted parts & housing
with Declaration of Conformity, CE

General features

- Piezoresistive silicon pressure transmitter for pumps market
- Pressure range from 0...10 bar to 0...40 bar
- Wiring with DIN43650A L-connector or various connectors
- Ingress production IP65
- All stainless steel for wetted parts and housing

Application area

- Water and pneumatic control systems
- Pump and compressors
- Liquid pressure systems

General specification

Pressure ranges

0...10 bar to 0...40 bar

Accuracy

± 0.25 %

Non-linearity per BFSL per IEC 61298-2

± 0.5% FS

included Linearity+Hysteresis+Repeatability

Overpressure

1.5 X pressure range

Output type

Current (2-wire) : 4...20mA

Voltage (3-wire) : 0...10V

0...5V

1...5V

Power supply

Ref. power : DC 24V

Available power : DC 12...30V

Response time

≤ 5ms

Isolation

> 100MΩ at 100 VDC



Pressure transmitter EDN.332

Temperature range

Operating: -20...80 °C

Temperature compensating range:

0...70 °C

-10...70 °C / option

Ambient: -20...85 °C

Storage: -20...100 °C

Thermal error

Zero thermal error : ±0.75%FS @ 35 °C (typ.)

Span thermal error : ±0.75%FS @ 35 °C (typ.)

Materials

Wetted parts : st. steel 316L

Sensor sealing : No O-ring

Body : st. steel 304

Electrical connection

DIN43650 A, Cable type

Pressure connection

G 1/4" (DIN 3852-E with sealing by DIN 3869 ring seals)

R 1/4" others upon request

Protection

IP65

Weight

Approx. 140g

Option

High temperature adapter, Cooling device

up to 200 °C

up to 300 °C



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Technical specifications

Input pressure range

Normal pressure:

-1...0 bar up to 0...40 bar

Permissible static pressure:

1.3 x pressure range, max.60 bar

Output signal / Supply

Current:

2-wire 4...20mA $V_s=12...30$ VDC

Voltage:

3-wire 0...10V, 0...5V, 1...5V $V_s=12...30$ VDC

Performance

¹Accuracy: $\leq \pm 0.5\% \text{FSO @ } 25^\circ\text{C}$

¹ accuracy according to IEC 60770 - limit point adjustment including non-linearity, hysteresis as well as repeatability

Permissible load / R_L

Current: 2-wire, $R_L \text{ max} = [(V_s - V_s \text{ min}) / 0.02 \text{A}] \Omega$

Voltage: 3-wire, $R_L \text{ min} = 10 \text{k}\Omega$

Influence effects:

Supply: 0.05%FSO/10V

Longterm stability: $\leq \pm 0.5\% \text{FS / year}$

Response time: <5ms

Thermal effects (Offset and Span)

/ Permissible temperatures

FS thermal error: $\pm 0.75\% \text{FS @ } 25^\circ\text{C}$, typical

Zero thermal error: $\pm 0.75\% \text{FS @ } 25^\circ\text{C}$, typical

Operating temperature: -20...80°C

Compensated temperature: 0...70°C

Electrical protection

Electromagnetic compatibility:

Emission and immunity according to

EN 61326-2-3:20B CCISPR II Group 1, Class A

EN IEC 61000-3-2:2019

Insulation: the transmitter is grounded via the process connection

Mechanical stability

Vibration: No change at 10 g RMS (20...2000) Hz

Shock: 0.1 g (1m/s) Max.

Materials

Pressure port: stainless steel 316L

Housing / body: stainless steel 304

Sensor diaphragm: stainless steel 316L

Wetted parts: stainless steel 316L

Miscellaneous

Current consumption

Signal output current max. 25mA

Current

4...20mA, 2-wire system

Signal output voltage max. 7mA

Voltage:

0...10V, 0...5V, 1...5V, 3-wire system

Ingress protection: IP65

EMC Test report for CE conformance

■ EN 61326-2-3:2013 / Class A

■ EN 61326-2-3: 2013 / IEC 61326-1:2012

Ordering Information

Model code **EDN.332** · · · · B ·

Output signal

O1	4...20mA, 2-wire system
O2	0...10V, 3-wire system
O3	0...5V, 3-wire system
O4	1...5V, 3-wire system

Electrical connection

D	DIN 43650 A
C	2m cable

Process connection

G4	G1/4" (PF 1/4")
R4	R1/4" (PT 1/4")

Pressure range code, unit bar

Code	Range
R33	0...10
R35	0...16
R36	0...20
R37	0...25
R39	0...40
RYY	Request on other ranges

Option code

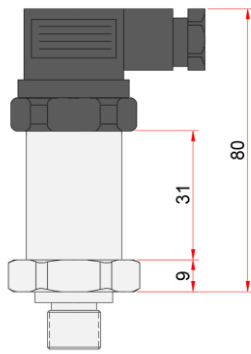
Code	Description
RS	Restrictor screw in socket hole
NO	"USE NO OIL" for Oxygen application
AD	Adapter
CD2	Cooling device up to 200 °C
CD3	Cooling device up to 300 °C
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate
CC	Certificate of conformance / origin

How to Order

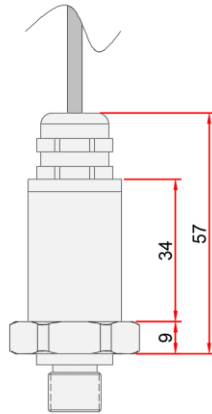
EDN.332.O1DG4BR35

EDN.332, 4...20mA, DIN 43650 A, G 1/4", 0...16 bar

Outline drawing



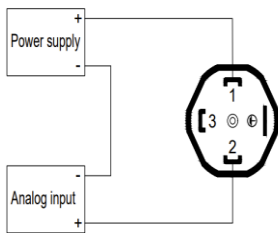
DIN 43650 A Type



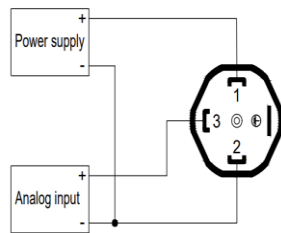
Cable gland Type

Pin assignment

DIN 43650A connector according to DIN EN 175301-803A



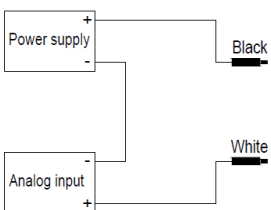
2-wire / current



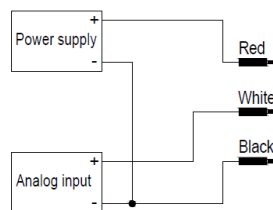
3-wire / voltage

Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)

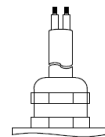
Flying leads with 2m cable



2-wire / current

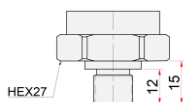


3-wire / voltage

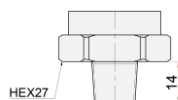


	2-Wire	3-Wire
White	Output(mA)	Output(VDC)
Red		+Vcc
Black	+Vcc	GND

Process connection



G1/4" A
DIN EN ISO 1179-2



R1/4"

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