Differential Pressure Transmitters series EDN.350

A4 ≤ ± 0.5% F.S
A7 ≤ ± 0.25% F.S
A9 ≤ ± 0.1% F.S

Piezoresistive silicon pressure sensors
all st. steel housing of wetted parts
with Declaration of Conformity, CE

General features

- Piezosistive Silicon Pressure Transmitters for industrial applications
- Differential pressure range from 0…25 mbar to 0…35 bar
- Wiring with DIN43650A L-connector or various connectors
- Ingress production IP65
- Housing parts of stainless steel

Application area

- Hydraulic and pneumatic control systems
- Level measurement system
- Control equipments and air conditioning system
- pressure checking system

General specification

Pressure ranges
from 0…25 mbar to 0…35 bar

Maximum Static Pressure
0…200 bar

Accuracy
including non-lenearity, hysteresis, zero point and full scale error according to IEC 61298-2

0.5% F.S	≥ 0...10 mbar
0.25% F.S	≥ 0...100 mbar
0.1% F.S	≥ 0…1000 mbar

Overpressure
1.3 X pressure range

Output type
4…20mA, 2-wire system
0…10V, 3-wire system
0…5V, 3-wire system
1…5V, 3-wire system

Temperature range

Temperature compensating range:	0…+70℃
Operating:	-20…+80℃
	-40…+125℃/option
Ambient:	-20…+100℃
Storage:	-40…+120℃

Thermal error

Zero thermal error:	±0.75%FS @ 25℃, typical
Span thermal error:	±0.75%FS @ 25℃, typical

Pressure transmitter series EDN.35x

Long term stability

• pressure range > 400 mbar,	0.1% FS typical. 0.2% FS max.
• pressure range ≤ 40 mbar,	typical. 2 mbar max.

Power supply

Ref. power:	DC 24V
Available power:	DC 12…30V

Response time	≤ 5ms
Isolation	> 100MΩ at 100 VDC

Materials

Wetted parts:	st.steel 316L
Sensor sealing:	FKM O-ring
Body:	st.steel 316L

Electrical connection
DIN43650 A
M12 Plug
Cable type
Head type
Others on request

Pressure connection
Female G 1/4" Female G1/4" accordance with ISO 228

Protection	IP65 with plug DIN 43650A
Weight	≤ 350g

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Technical specifications

Input pressure range

Norminal pressure:

0…25 mbar up to 0…35 bar

Permissible static pressure:

1.3 x pressure range

Output signal / Supply

Current:

2-wire	4…20mA	Vs=12…30 VDC

Voltage:

3-wire	0…10V, 0...5V, 1...5V	Vs=12…30 VDC

Performance

[1]Accuracy: ≤ ±0.5%FSO @ 25℃

[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 max=[(Vs-Vs min)/0.02A]Ω

Voltage: 3-wire, R_L min=10kΩ

Influence effects:

Supply:	0.05%FSO/10V
Longterm stability:	≤±0.5%FS / year
Response time:	<5ms

Thermal effects (Offset and Span) / Permissible temperatures

FS thermal error:	±0.75%FS @ 25℃, typical
Zero thermal error:	±0.75%FS @ 25℃, typical
Operating temperature:	-20…80℃
Compensated tempearture:	0…70℃

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 type
  - Current 4…20mA: 25 mA
  - Voltage 0…10V, 0…5V, 1…5V: 7mA
- 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

DAHO

Ordering information

Model code **EDN.350 · ▢ · ▢ · ▢ · ▢ · B ▢ · ▢**

Accuracy	
A4	≤ 0.5 % F.S
A7	≤ 0.25 % F.S
A9	≤ 0.1 % F.S

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
M	M12 plug
C	2m cable
H	General head

Process connection	
G4	G 1/4" Female + G1/4" Female

Pressure range code, unit bar

Code	Range
R126	0…25 mbar
R128	0…40 mbar
R129	0…60 mbar
R131	0…100 mbar
R134	0…200 mbar
R137	0…400 mbar
R21	0…600 mbar
R23	0…1
R26	0…1.6
R28	0…2.5
R30	0…4
R32	0…6
R33	0…10
R35	0…16
R37	0…25
R38	0…35
RYY	Others on request

Option code

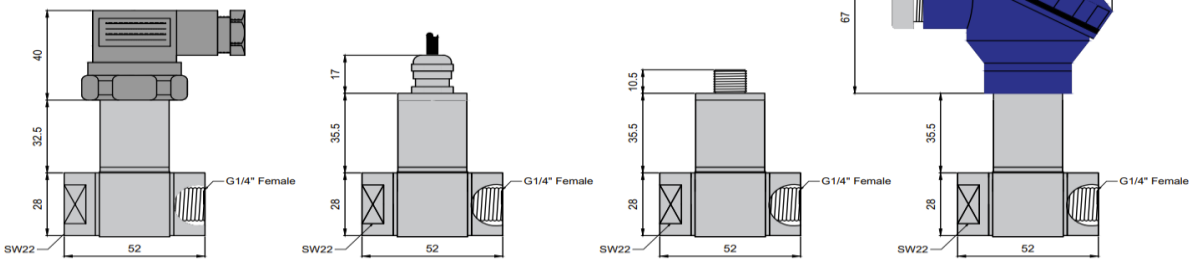
Code	Description
NO	"USE NO OIL" for Oxygen application
PCA	Adapter G1/4" Male + G1/4" Male
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate

How to order

EDN.350.A4.O1.D.G4.BR30

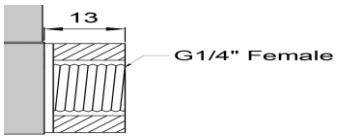
0.5%, 4…20mA, DIN 43650 A, G 1/4" Female, 0…4 bar

Outline drawing



DIN 43650 A | Cable gland | M12 Plug | General Head

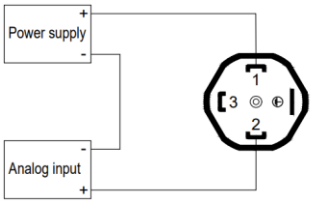
Process connection



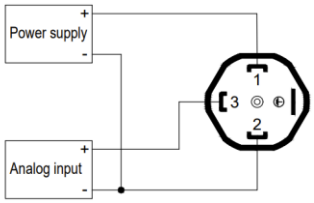
G 1/4" Female
DIN EN ISO 228

Pin assignment

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



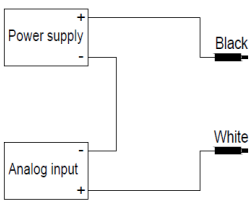
2-wire / current



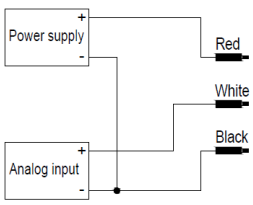
3-wire / voltage

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

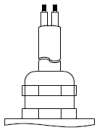
Flying leads with 2m cable



2-wire / current



3-wire / voltage



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

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