Pressure transmitter with adj. zero/span series EDA.330

St. steel housing & wetted part with adjustable zero/span

General features

- Piezoresistive silicon pressure transmitters
- Pressure range from -1…0 bar to 0…1000 bar
- Wiring with DIN43650A L-connector or various connectors
- Ingress production IP65
- Housing parts of stainless steel

Application area

- Machine building
- Hydraulics and pneumatics
- Pumps
- Chemical industry

General specification

Pressure transmitter series EDA.330

Pressure ranges
-1…0 bar to 0…1000 bar

Accuracy
± 0.5% FS
included Linearity+Hysteriesis+Repeatability

Overpressure
1.5 X pressure range

Output type
Current (2-wire) : 4…20mA
Voltage (3-wire) : On request

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 : No O-ring
Body : St.steel 304

Electrical connection
DIN43650 A, Head mount

Pressure connection
G 1/4" (DIN 3852-E with sealing by DIN 3869 ring seals)
PT 1/4", PT 1/2", others upon request

Temperature range
Operating : -20…80℃
Compensated : -10…70℃

Thermal error
Zero thermal error : ±0.75%FS @ 35℃ (typ.)
Span thermal error : ±0.75%FS @ 35℃ (typ.)

Protection : IP65

Weight : Approx. 150g

Adjustablility of zero point and span
Adjustment is made using potentiometers inside the instrument.
Zero point : ±5% of range
Span : ±5% of range

Option
High temperature adapter
up to 200℃ / up to 300℃

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Technical specifications

Input pressure range

Norminal pressure:

-1…0 bar up to 0…1000 bar

Permissible static pressure:

1.3 x pressure range, max.1100 bar

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…60℃

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, 3-wire system
0…5V, 3-wire system
1…5V, 3-wire system

Ingress protection

DIN 43650 A	:	IP65
General head	:	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.330 · ___ · ___ · ___ · 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
M	M12 plug
C	2m cable

Process connection	
G2	G 1/2" (PF 1/2")
G3	G 3/8" (PF 3/8")
G4	G 1/4" (PF 1/4")
R2	R 1/2" (BSPT 1/2")
R4	R 1/4" (BSPT 1/4")

Pressure range code, unit bar

Code	Range
R19	-1…0
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
R39	0…40
R41	0…60
R43	0…100
R45	0…160
R47	0…250
R50	0…400
R53	0…600
R55	0…1000
RYY	Others on request

Option code

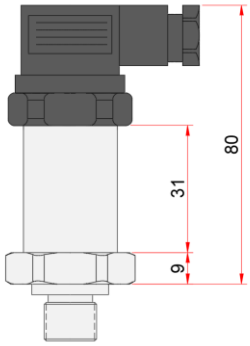
Code	Description
RS	Restrictor screw in socket hole
NO	"USE NO OIL" for Oxygen application
AD	Adapter
CD2	Cooling device up to 200℃
CD3	Cooling device up to 300℃
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate
CC	Certificate of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

How to order

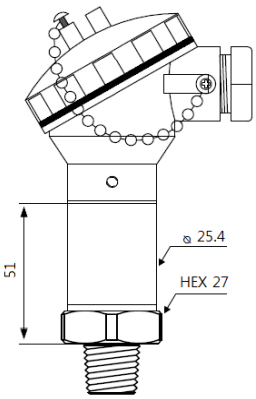
EDN.330.O1.D.G4.BR35

EDN.330, 4…20mA, DIN 43650 A, G 1/4", 0…16 bar

Outline drawing

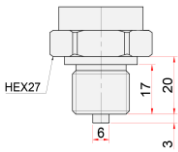


DIN 43650A Type

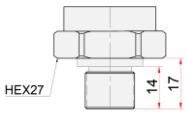


General head type

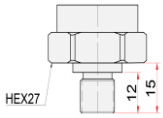
Process connection



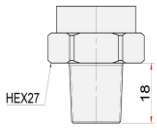
G1/2" B
EN 837-1



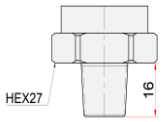
G3/8" A
DIN EN ISO 1179-2



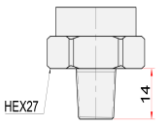
G1/4" A
DIN EN ISO 1179-2



R1/2"
ISO 7



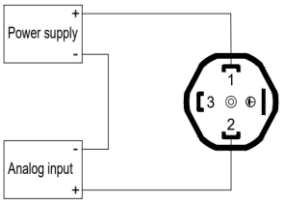
R3/8"
ISO 7



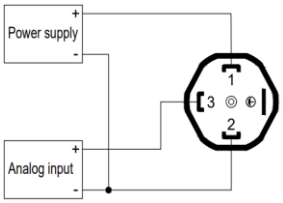
R1/4"
ISO 7

Pin assignment

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



2-wire / current



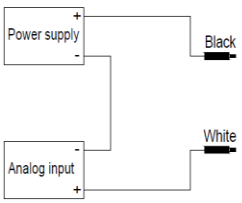
3-wire / voltage

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

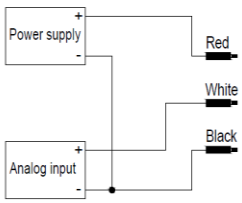
M12 x 1, 5-pin / male

Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)
4		

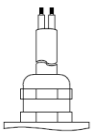
Flying leads with 2m cable



2-wire / current



3-wire / voltage



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

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