Pressure Transmitters with Zero/Span Adjustment on Top Position series EDA.370

CE

All wetted parts & housing are made of st. steel.
Zero & Span Adjustement function.
with Declaration of Conformity, CE

General features

- Pressure range from -1…0 bar to 0…1000 bar
- Wetted & housing parts of stainless steel
- Specially, designed for BOU of train industry
- Zero & Span Adjustement function on top
- CE certified, declaration of conformity
- High isolation grade with EMC & EMI test.

Application area

- Brake Operating Units of train & subway
- Hydraulic and pneumatic control systems.
- Monitorin of high quaified control system
- Pressure checking system

General specification

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

Accuracy
included Linearity+Hysteriesis+Repeatability
A4: ± 0.5% FS
A7: ± 0.25% FS
A9: ± 0.1% FS

Overpressure
1.3 X pressure range

Output signal
4…20mA, 2-wire system *[under construction]*
0…10V, 3-wire system
0…5V, 3-wire system
1…5V, 3-wire system

Power supply
Available power: DC 12…30V

Response time: ≤ 5ms

Isolation > 2000MΩ at 500 VDC

Materials of
Wetted parts: St.steel 316L
Sensor sealing: NBR / standard
Viton / option
EPDM / option
Body: St.steel 304

Pressure transmitter series EDA.370

Temperature range
Compensated temperature range: -10℃…+80℃
Operating: -40…+125 ℃
Ambient: -20…85℃
Storage: -40…125℃

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

Electrical connection & protection
DIN43650 A IP65
mPm plug IP65

Pressure connection
G 1/4", DIN 3852-E with sealing by DIN 3869 ring seals
G 3/8"
G 1/2"
R 1/4"
R 3/8"
R 1/2"

Weight
Approx. 140g

Options
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
	[under construction]	

Voltage:

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

Performance

[1]Accuracy: ≤ ±0.25%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℃
	-40…+125 ℃ / option
Compensated tempearture:	-10…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

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 *[under construction]*

Signal output voltage max. 7mA

Voltage:

0…10V, 0…5V, 1…5V, 3-wire system

Weather protetion grade

■ Ingress protection: IP65 with electrical plug

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 **EDA.370 · □ · □ · □ · □ · 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	*[under construction]*
O2	0…10V / 3-wire system	
O3	0…5V / 3-wire system	
O4	1…5V / 3-wire system	

Electrical connection	
P	mPm plug
D	DIN 43650 A

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")
R3	R 3/8" (BSPT 3/8")
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

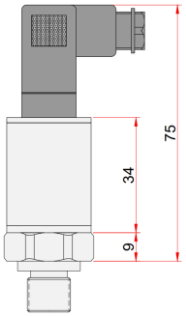
Code	Description
PAA	absolute pressure range [5…6 weeks delivery]
xL	x m cable exstension (예: 5L = 5 m, 3L = 3 m)
T4	-40…+125 °C
AC25	Restrictor screw in socket hole
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate

How to order

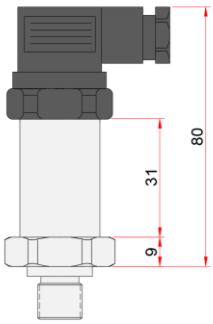
EDA.370.O1.P.G4.BR35

EDA.370, 4…20mA, mPm plug, G 1/4", 0…16 bar

Outline drawing

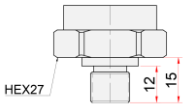


mPm plug type
/ IP65

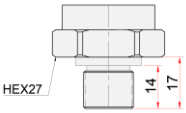


DIN 43650A type
/ IP65

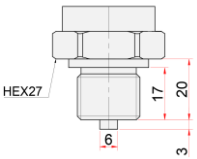
Process connection



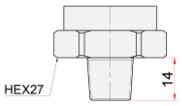
G1/4" A
DIN EN ISO 1179-2



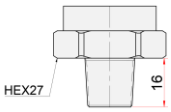
G3/8" A
DIN EN ISO 1179-2



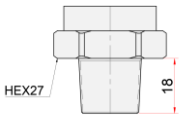
G1/2" B
EN 837-1



R1/4"
ISO 7

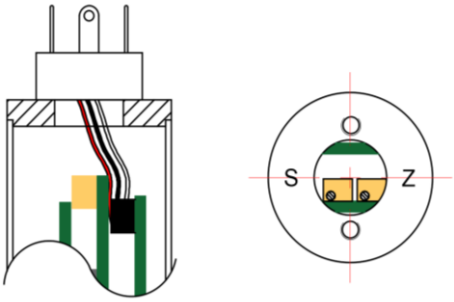


R3/8"
ISO 7



R1/2"
ISO 7

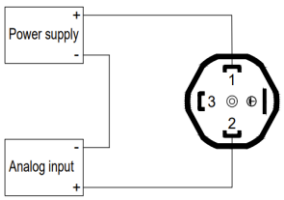
Zero & Span Adjustement function



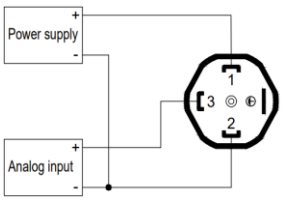
zero & span adjustment의 조정위치

Pin assignment

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



2-wire / current, 4…20mA



3-wire / voltage, 0…10V, 0…5V, 1…5V

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

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