Pressure Transmitters for Low Pressure Measurement with Zero/Span adj. by side series EDA.373

CE

All wetted parts & housing are made of st. steel.
with Declaration of Conformity, CE
Zero & Span Adjustement function.
The operating buttons are on the side of the body

General features

- Pressure range from 0…25 mbar to 0…1600 mbar
- Wetted & housing parts of stainless steel
- Zero & Span Adjustement function
- The operating buttons are on the side of the body
- 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
0…25 mbar & 0…1600 mbar

Accuracy
included Linearity+Hysteriesis+Repeatability
A4: ± 0.5% FS
A7: ± 0.25% FS [higher than 100 mbar]

Overpressure
1.3 X pressure range

Output signal

Current output:	4…20mA, 2-wire system
Voltage output:	0…10V, 3-wire system
	0…5V, 3-wire system
	1…5V, 3-wire system
	0.5…4.5V, 3-wire system

Power supply

2-wires:	DC 8…30V
3-wires:	DC 12…30V

Loard resistance

2-wires:	< (U - 8V) / 25 mA
3-wires:	> 5k Ω

Materials of

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

Pressure transmitter series EDA.373

Temperature range of

Compensated temperature range:	-10℃…+80℃
Operating:	-20…+100 ℃
	-40…125℃ [option]
Ambient:	-20…100℃
Storage:	-40…125℃

Thermal error

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

Response time: ≤ 5ms
Isolation > 2000MΩ at 500 VDC

Electrical connection & protection

DIN43650 A	IP65
mPm plug	IP65
2m flying cable	IP67
M12 plug	IP67
Underwater elec. Plug	IP68

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

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Technical specifications

Input pressure range

Norminal pressure:

0…25 mbar up to 0…1600 mbar

Permissible static pressure:

1.3 x pressure range, max.2000 mbar

Output signal / Supply

Current:

2-wire	4…20mA	Vs = 8…30 VDC

Voltage:

3-wire	0…10V, 0…5V, 1…5V, 0.5…4.5V	Vs = 12…30 VDC

Performance

[1]Accuracy: ≤ ±0.5%FSO @ 25℃
≤ ±0.25%FSO @ 25℃
≤ ±0.1%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, < (U - 8V) / 25 mA
Voltage: 3-wire, > 5k Ω

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…+ 100℃
	-40…+125 ℃ / option
Compensated tempearture:	-10…+ 80℃

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
Signal output voltage max. 7mA

Voltage:

0…10V, 0…5V, 1…5V, 0.5…4.5V 3-wire system

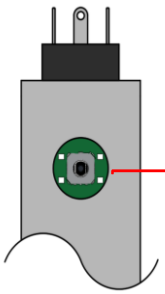
Weather protetion grade

■ Ingress protection: IP65 / IP67 / IP68
(depending on electrical connection)

EMC Test report for CE conformance

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

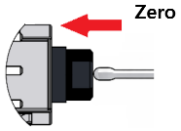
Zero & Span Adjustment function



Zero & Span Adjustment Location

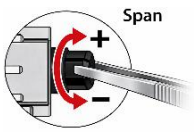
Zero Adjustment

Press the button three times
to set the current pressure value to zero.



Span Adjustment

Rotate the adjustment screw to set the span value.
Press and hold the button for 3 seconds
to save the setting.



Ordering information

Model code **EDA.373 · ___ · ___ · ___ · ___ · B ___ · ___**

Accuracy	
A4	≤ 0.5 % F.S
A7	≤ 0.25 % 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
O6	0.5…4.5V / 3-wire system

Electrical connection	
P	mPm plug
D	DIN 43650 A
M	M12 plug
C	2m flying cable, IP67
W	underwater plug, IP68

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 mbar

Code	Range
R163	0…25
R165	0…40
R167	0…60
R168	0…100
R170	0…160
R172	0…250
R174	0…400
R176	0…600
R23	0…1000
R26	0…1600

Option code

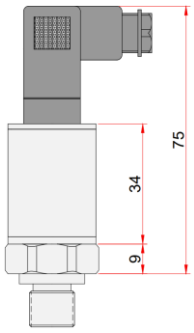
Code	Description
PAA	absolute pressure range [5…6 weeks delivery]
xL	x m cable exstension (예: 5L = 5 m, 3L = 3 m)
T4	-40…+125 °C
AC25	Restrictor screw in socket hole
TP	St. steel tag plate, 60 x 20 x 0.5t
DMCC	Manufacture calibration certificate
KC	KOLAS Ilac-MRA calibration certificate

How to order

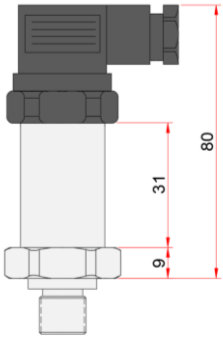
EDA.373.A4.O1.P.G4.BR170

EDA.373, 0.5%, 4…20mA, mPm plug, G 1/4", 0…160 mbar

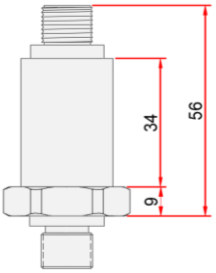
Outline drawing



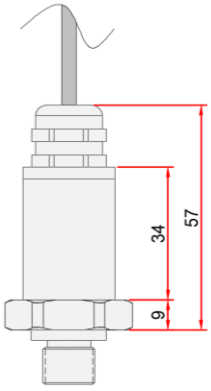
mPm plug type
/ IP65



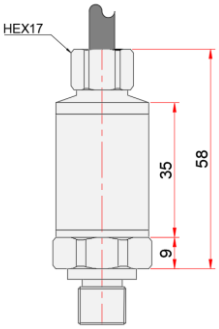
DIN 43650A type
/ IP65



M12 plug type
/ IP65

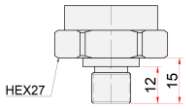


Cable gland type
/ IP67

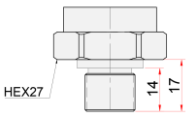


underwater plug
/ IP68

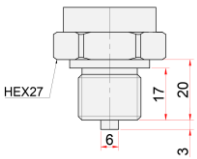
Process connection



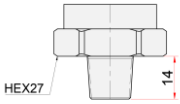
G1/4" A
DIN EN ISO 1179-2



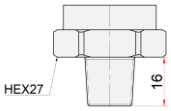
G3/8" A
DIN EN ISO 1179-2



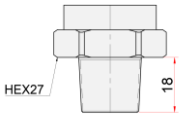
G1/2" B
EN 837



R1/4"
ISO 7



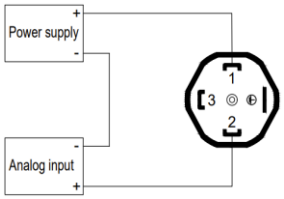
R3/8"
ISO 7



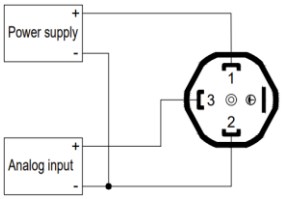
R1/2"
ISO 7

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

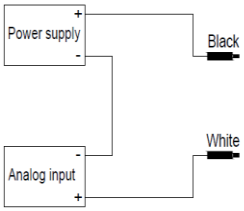
Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)

M12 x 1, 5-pin / male

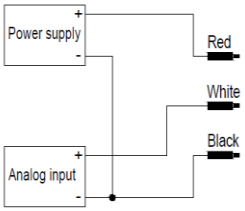


Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)
4		

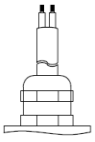
Flying leads with 2m cable



2-wire / current, 4…20mA



3-wire / voltage , 0…10V, 0…5V, 1…5V



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

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