

## Pressure transmitter for compressor application series EDN.334

St. steel housing & wetted part  
with Declaration of Conformity, CE

### General features

- Piezoresistive silicon Pressure Transmitter
- Pressure range from 0...10 bar to 0...40 bar
- Wiring with DIN43650A L-connector or various connectors
- Ingress protection IP65
- Housing parts of stainless steel

### Application area

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

### General specification

#### Pressure ranges

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

#### Accuracy

± 0.5% FS / BFSL (Best Fit Straight Line)

± 1.0% 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 20V

Available power : DC 12...28V

#### Response time

≤ 5ms

#### Isolation

> 100MΩ at 100 VDC



Pressure transmitter series EDN.334

#### Materials

Wetted parts : St. steel 316L

Sensor sealing : No O-ring

Body : St. steel 304

#### Electrical connection

DIN43650 A, M12 Plug, Cable type

#### 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°C

Compensated : -10...70°C

#### Thermal error

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

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

#### Protection

IP65

#### Weight

Approx. 140g

#### Option

High temperature adapter, Cooling device  
up to 200°C / up to 300°C



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## Technical data

Input pressure range				
Norminal pressure	[bar]	0...10 bar to 0...40 bar		
Permissible static pressure	1.5 x pressure range,			
Output signal / Supply				
Standard	2-wire	4...20mA	Vs=12...28 VDC	
	3-wire	0...10V, 0...5V, 1...5V	Vs=12...28 VDC	
Performance				
Accuracy	≤ ±1.0%FSO @ 25°C			
Permissible load	Current 2-wire	R max=[(Vs-Vs min)/0.02A]Ω		
	Voltage 3-wire	R min=10kΩ		
Influence effects	Supply	0.05%FSO/10V		
Longterm stability	≤±0.5%FS / year			
Response time	<5ms			
<sup>1</sup> accuracy according to IEC 60770 - limit point adjustment (non-linearity, hysteresis, repeatability)				
Thermal effects (Offset and Span) / Permissible temperatures				
FS thermal error	±0.75%FS @ 35°C			
Zero thermal error	±0.75%FS @ 35°C			
Operating temperature	-20...80°C			
Compensated teperature	-10...70°C			
Electrical protection				
Electromagnetic compatibility	Emission and immunity according to EN 61326, EN 55011			
Isolation	100 MΩ at 100 VDC			
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	Stainless steel 304			
Diaphragm	Stainless steel 316L			
Media wetted parts	Stainless steel 316L			
Miscellaneous				
Current consumption	Signal output current	max. 25mA		
	Signal output voltage	max. 7mA		
Weight	approx. 145g			
Ingress protection	IP65			
Pin configuration				
Pin	1	2	3	4
2-wire	+Vcc	OUT	NC	Shielded GND ⊕
3-wire	+Vcc	GND	+OUT	Shielded GND ⊕

## Ordering Information

Model code

EDN.334



### 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

### Option

Refer to option table

### Pressure range

Refer to pressure range table

### Electrical connection

D : DIN 43650 A  
 M : M12 plug  
 B : Binder plug  
 C : 2m cable

### Process connection

G2 : PF 1/2"	N2 : NPT 1/2"
G3 : PF 3/8"	N3 : NPT 3/8"
G4 : PF 1/4"	N4 : NPT 1/4"
R2 : PT 1/2"	U1 : UNF 7/16"-20 male
R3 : PT 3/8"	U2 : UNF 7/16"-20 female
R4 : PT 1/4"	H1 : UNF 5/8"-18 female
	H2 : M16 x 1.5 female

### Pressure range code, unit bar

Code	Range
R33	0...10
R35	0...16
R37	0...25
R39	0...40
RYY	Others

### Option code

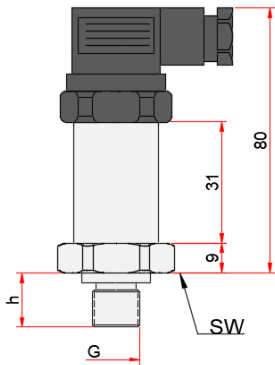
Code	Description	Code	Description
CD2	Cooling device up to 200 °C	DMCC	Manufacture calibration certificate
CD3	Cooling device up to 300 °C	KC	KOLAS Ilac-MRA calibration certificate
TP	St. stell tag plate, 60 x 20 x 0.5t		

### How to Order

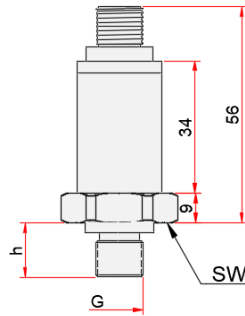
EDN.334.O1DG4R35

EDN.334, Silicon sensor, ±1.0%FS, 4...20mA, DIN 43650 A, G 1/4", 0...16 bar

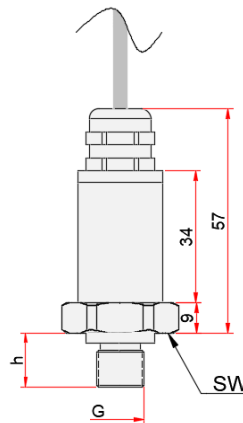
## Outline drawing



DIN 43650 A Type



M12 Plug Type



Cable Grand Type

■ thread connection

ISO 1179-2, KS B0222			
Standard	G	h	SW
KS B0222	R 1/4"	13	32
	R 3/8"	15	
	R 1/2"	19	
A DIN EN ISO 1179-2	G 1/4"	14	
	G 3/8"	16	
	G 1/2"	20	

## Process connection

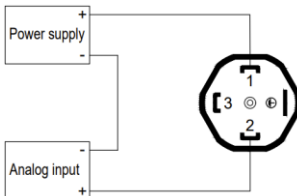
- others upon request

Standard	Thread size
DIN 3852-E	G 1/4"
	G 1/2"
KS	PT 1/4"
	PT 1/2"

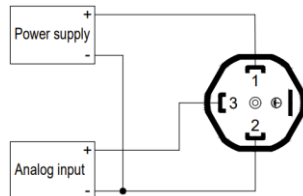
## Pin assignment

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

M12 x 1, 5-pin / male

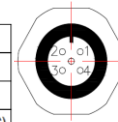


2-wire / current



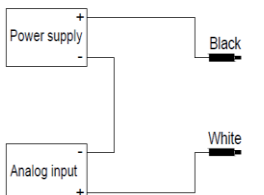
3-wire / voltage

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

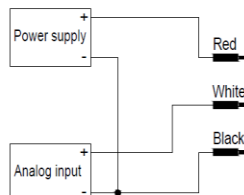


Pin No.	2-Wire	3-Wire
1	+Vcc	+Vcc
2	Output(mA)	GND
3		Output(VDC)
4		

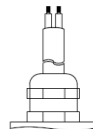
Flying leads with 2m cable



2-wire / current



3-wire / voltage



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

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