



Application

- ✓ Pneumatics & Hydraulics
- ✓ Air Compressors & Pumps
- ✓ Machine & Ship building
- ✓ General Pressure Monitoring (water, Oil, Gas)

Special Features

- ✓ High Accuracy with a Compact Design
- ✓ Measuring as low as 100mbar to as high as 600bar
- ✓ Polarity protection & Anti-jamming circuit
- ✓ Cost effective

Description

ZEDEYES 3110 transmitter is the very compact design requested by many industries. This cost effective transmitter with modular characteristics as option has excellent 0.5% BFSL accuracy ensuring it can cover a wide range of industrial applications.

Two special features of polarity protection and anti-jamming circuits are embedded in every **ZEDEYES** pressure transmitter.

Default Specification

Gauge Pressure ranges (bar)	Permissible over pressure	Compensated medium temperature ¹	Permissible medium temperature
0...0.05	400% FS	-10...70°C	-25...125°C
0...0.1	300% FS	-10...70°C	-25...125°C
0...0.16	300% FS	-10...70°C	-25...125°C
0...0.25	300% FS	-10...70°C	-25...125°C
0...0.4	200% FS	-10...70°C	-25...125°C
0...0.6	300% FS	-10...70°C	-25...125°C
0...1	200% FS	-10...70°C	-25...125°C
0...1.6	200% FS	-10...70°C	-25...125°C
0...2.5	200% FS	-10...70°C	-25...125°C
0...4	200% FS	-10...70°C	-25...125°C
0...6	200% FS	-10...70°C	-25...125°C
0...10	200% FS	-10...70°C	-25...125°C
0...16	200% FS	-10...70°C	-25...125°C
0...25	200% FS	-10...70°C	-25...125°C
0...40	150% FS	-10...70°C	-25...125°C
0...60	150% FS	-10...70°C	-25...125°C
0...100	150% FS	-10...70°C	-25...125°C
0...160	150% FS	-10...70°C	-25...125°C
0...250	150% FS	-10...70°C	-25...125°C
0...400	150% FS	-10...70°C	-25...125°C
0...600	150% FS	-10...70°C	-25...125°C

1. Compensated medium temperature refers to the temperature range within which the pressure transmitter will maintain its promised accuracy.

Compound & Vacuum ranges (bar)	Permissible over pressure	Compensated medium temperature	Permissible medium temperature
-0.025...+0.025	150% (dry & clean gas only)	-10...70°C	-25...125°C
-0.05...+0.05	400% FS	-10...70°C	-25...125°C
-0.06...+0.1	300% FS	-10...70°C	-25...125°C
-0.1...+0.15	200% FS	-10...70°C	-25...125°C
-0.2...+0.2	200% FS	-10...70°C	-25...125°C
-0.3...+0.3	300% FS	-10...70°C	-25...125°C
-0.5...+0.5	400% FS	-10...70°C	-25...125°C
-1...0	300% FS	-10...70°C	-25...125°C
-1...0.6	300% FS	-10...70°C	-25...125°C
-1...+1.5	300% FS	-10...70°C	-25...125°C

Compound & Vacuum ranges (bar)	Permissible over pressure	Compensated medium temperature	Permissible medium temperature
-1...+3	200% FS	-10...70°C	-25...125°C
-1...+5	200% FS	-10...70°C	-25...125°C
-1...+9	200% FS	-10...70°C	-25...125°C
-1...+15	200% FS	-10...70°C	-25...125°C
-1...+24	200% FS	-10...70°C	-25...125°C

Absolute Pressure ranges (bar)	Permissible over pressure	Compensated medium temperature	Permissible medium temperature
0...0.25	300%FS	-10...70°C	-25...125°C
0...0.4	200%FS	-10...70°C	-25...125°C
0...1	200%FS	-10...70°C	-25...125°C
0...1.6	200%FS	-10...70°C	-25...125°C
0...2.5	200%FS	-10...70°C	-25...125°C
0...4	200%FS	-10...70°C	-25...125°C
0...6	200%FS	-10...70°C	-25...125°C
0...10	200%FS	-10...70°C	-25...125°C
0...16	200%FS	-10...70°C	-25...125°C
0...25	200%FS	-10...70°C	-25...125°C

Technical details applicable on Model 3110		
Reference Conditions	Ambient Temperature	15...25°C
	Atmospheric Pressure	860...1060 mbar
	Humidity	45%...75%
	Power Supply	24V DC
Load	Current (2-wire)	
	Voltage (3-wire)	
	Ratiometric (3-wire)	
Ingress protection	Angular Connector Form A	IP65
	Angular Connector Form C	IP65
	Circular Connector M12x1	IP67
	Cable Outlet	IP67
Rated Insulation Voltage	500 V DC	
Polarity Protection	YES	
Anti-Jamming Circuit	YES	

* Other pressure ranges or pressure units available as option.

Permissible Temperature Ranges

Permissible temperature ranges	
Storage	-35...+75 °C
Ambient	-20...+75 °C
Temperature Error (within 0...80 °C)	$\leq \pm 0.055 \times (t_2 - t_1) \%$ of the span for ranges less than 350 mbar $\leq \pm 0.035 \times (t_2 - t_1) \%$ of the span for ranges over 350 mbar

* t_1 Reference temperature.

* t_2 Ambient temperature.

Performance

Performance factors	
Zero Point and Span Adjustability	By the use of software
Long-term Stability	Less than 0.25% of span per year
Non-linearity	$\leq \pm 0.25\%$ of span
Non-repeatability	$\leq \pm 0.2\%$ of span
Accuracy ¹	$\pm 0.5\%$ BFSL

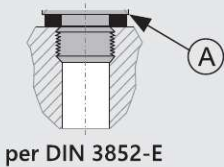
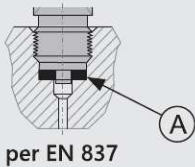
* Strong Electromagnetic sources can increase the instrument measuring error.

1. Including non-linearity, hysteresis, zero offset and end value deviations

Threads and Seals

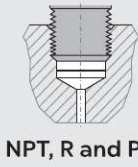
Parallel threads

Seal the sealing face (A) with flat gasket, lens-type sealing ring or ZEDEYES profile sealing materials.



Tapered Threads

Wrap threads with sealing material (e.g. PTFE tape).



Process Connections

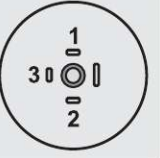
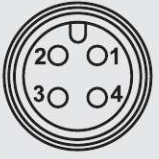
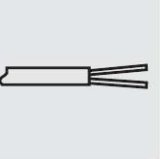
Standard	Sizes
EN 837	G 1/8 B
	G 1/4 B
	G 1/4 Female
	G 3/8 B
	G 1/2 B
DIN EN ISO 1179-2	G 1/4 A
	G 1/4 Female
	G 1/2 A
ANSI/ASME B1.20.1	M14 x 1.5
	1/8 NPT
	1/4 NPT
	1/4 NPT Female
	1/2 NPT
SAE J514 E	7/16-20 UNF O-ring BOSS
	7/16-20 UNF with 74° taper
	M20 x 1.5
	G 1/2 male / G 1/4 Female
DIN 16288	M20 x 1.5
ISO 7	R 1/4
	R 3/8
	R 1/2
KS	PT 1/4
	PT 1/2
	PT 3/8

* Process connection is SS316 by default. other materials available as option.

* Other process connections as option.

* T-type restrictor screw for process connection is available as option.

Pin Assignments

Angular Connector DIN 175301-803 A				Angular Connector DIN 175301-803 C			
		2-wire	3-wire			2-wire	3-wire
	U _B	1	1		U _B	1	1
	0V	2	2		0V	2	2
	S+	-	3		S+	-	3
Circular Connector M12x1 (4-pin)				Cable Outlet, unshielded			
		2-wire	3-wire			2-wire	3-wire
	U _B	1	1		U _B	red	red
	0V	3	3		0V	black	black
	S+	-	4		S+	-	green

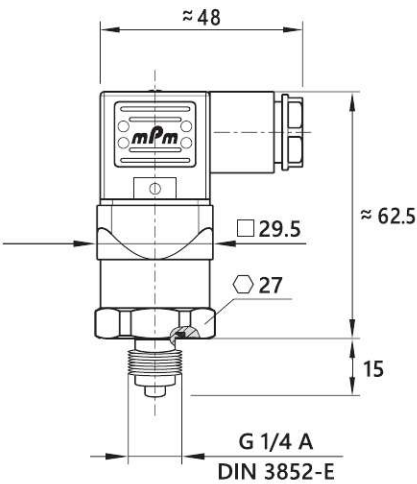
- * U_B Positive power Supply terminal
- * 0V Negative power Supply terminal
- * S+ Analogue output

Output Signal

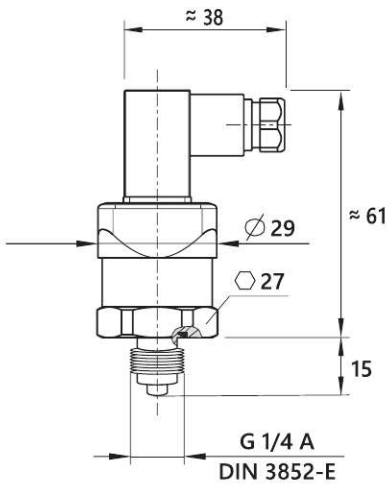
Standard	4...20 mA	Current (2 wire)
Option	0...10 V	Voltage (3 wire)
Option	0...5 V	Voltage (3 wire)

Dimensions (in mm)

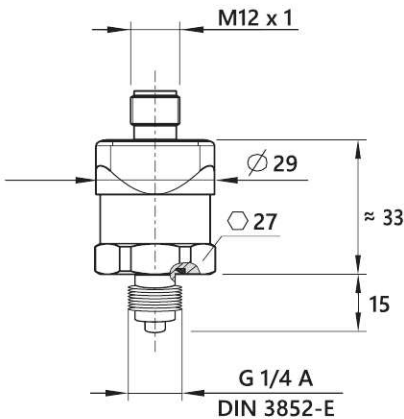
Angular Connector form A



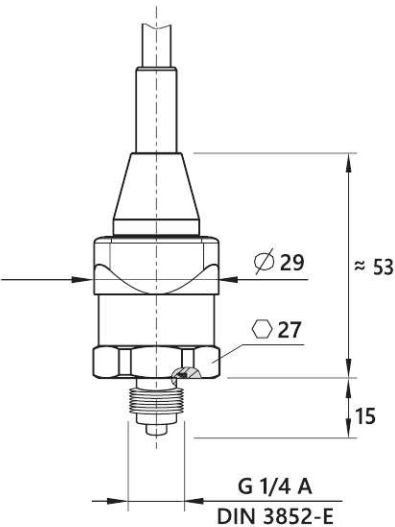
Angular Connector form C



Circular Connector M12x1



Cable Outlet



How To Order

	Product Group Name	Model	Output Signal	Process connection	Electrical Connection	Range	Options
Example:	Pressure Transmitter	3110	4...20 mA	G 1/4 B	Angular Form A	0...25 bar	-

Or simply order by item number on the basis of your previous purchases.