B.2.9.

CAPACITY PRESSURE TRANSDUCER FOR ATEX ENVIRONMENT series THPB11, THIPB11 (HART)

DESCRIPTION:

- ATEX - class EXIICT5
- resistant to pressure overloading and temperature change
- resistance to corrosion, wear, impact
- dustproof

APPLICATION:

- metallurgical industry
- power engineering
- chemical industry

TECHNICAL PARAMETERS:

- measure ranges: -1bar...0-5mbar...1000bar
- output signal: 4-20mA,0-5V, 0-10V, 1-5V 4-20mA HART/THIPB11
- connection: G1/2 (M20x1,5)
- supply voltage: 12-36V DC
- accuracy class: 0,25%FS, 0,5%FS (standard)
- pressure type: relative, absolute
- environment temperature: -20+80 °C
- protection: IP65

SPECIFICATION:

Pressure transducer THPB11 works on the principle of capacity technology with ceramic membrane. Electronics case is made of aluminium cast.

Thanks to use of dry technology (without using transfer liquid) of pressure measurement and sturdy electronic part, known as SMT technology, the transducer shows exceptional technical parameters of ceramic-capacity pressure transducers.

Thanks to this construction THPB11 are usable in ATEX environment (EXIICT5). THPB11 is suitable for pressure measurement in most industrial applications. Widely used in operations, where ATEX resistance is required, mainly in chemical industry, metallurgy and power engineering.

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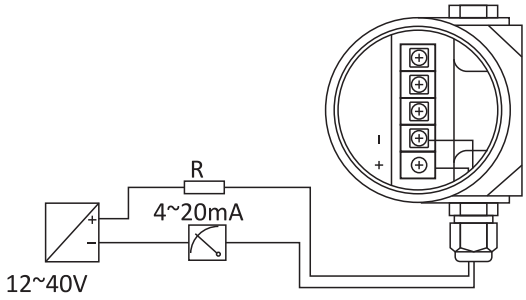
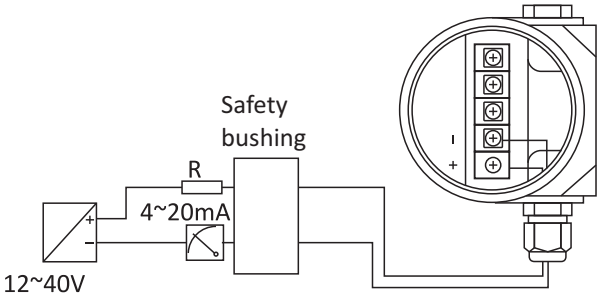
Technical parameters			
Medium	gas or liquid suitable for direct contact with stainless steel and ceramic	Environment temperature	-20+80°C
Range	-1bar...0-5mbar...1000bar	Working temp. range	-40+85°C
Overloading	300%FS-10000%FS (determines meas. range)	Connection	G1/2 (M20x1,5)
Electrical connection	M20x1,5 (inner thread) or 1/2NPT (inner thread)	Medium temp.	-40+125°C
Output signal	4-20mA, 0-5V, 0-10V, 1-5V 4-20mA HART/THIPB11	Connection material	stainless steel 17348/1.4571
Stability	<0,2%FS/year	Case material	Al alloy
Loading resistance	RL=(U-12V)/0,02A (4-20mA current output) U - loop voltage (V)	Protection	IP 65
Power supply voltage	12-36V DC	Accuracy class	0,25%FS; 0,5FS (standard)

Wiring diagram

• Explosion-proof environment



• Suitable for ATEX environment



Order code:

THPB11, THIPB11(HART)							
Range	Measuring range: -1bar...0-0,005bar...1000bar						
(X1-X2)bar	X1 - lower limit, X2 - upper limit of measuring range						
	Code	Pressure type					
	G	relative					
	A	absolute					
		Code	Accuracy class				
		B	0,1%				
		C	0,25%				
		D	0,5%				
			Code	Output signal			
			O1	4-20mA			
			H	4-20mA HART			
				Code	Connection		
				P2	G1/2		
				P4	M20x1,5		
				P9	flange		
				Pt	threaded type		
				Pk	clamp type		
				Pq	food industry type		
				Pz	on request		
					Code	Connection material	
					A	321	
					B	316L	
					C	hastelloy-C	
					D	brass	
					Z	on request	
						Code	Other features
						M0	without display
						M2	with dislay
						D1	ATEX environ.

THPB11	(0~200)bar	G	D	O1	P2	A	M0D1
		Pressure type	Accuracy class	Output signal	Connection	Conn. mater.	Other features

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