

LMP 331i



Precision Screw-in transmitter

Stainless Steel Sensor

accuracy according to IEC 60770: 0.1 % FSO

Nominal pressure

from 0 ... 400 mbar up to 0 ... 40 bar

Output signal

2-wire: 4 ... 20 mA 3-wire: 0 ... 10 V others on request

Product characteristics

- thermal error in compensated range -20 ... 80 °C: 0.2 % FSO TC 0.02 % FSO / 10K
- Turn-Down 1:10
- communication interface for adjusting offset, span and damping

Optional versions

- IS-versions
 Ex ia = intrinsically safe for gases and dusts
- adjustment of nominal pressure gauges (factory-provided)

The precision screw-in transmitter LMP 331i demonstrate the further development of our industrial pressure transmitters.

The signal processing of sensor signal is done by digital electronics with 16-bit analogue digital converter. Consequently it is possible to conduct an active compensation and the transmitters with excellent maesurements and exceptionally attractive price to offer on the market.

Preferred areas of use are



Chemical / petrochemical industry

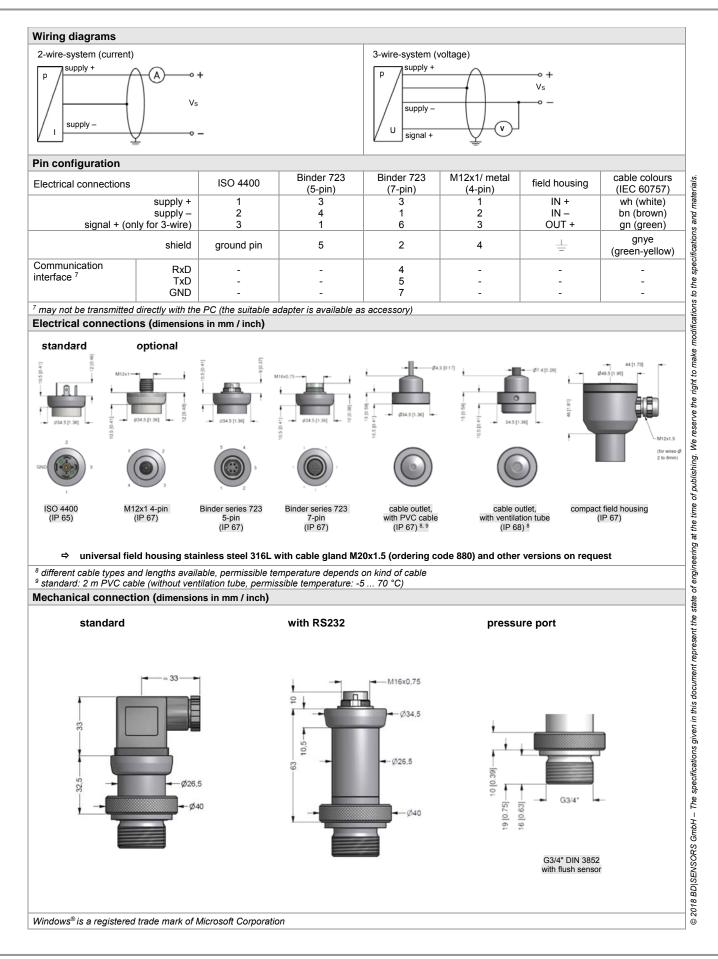


Environmental engineering (water / sewage / recycling)





Pressure ranges ¹					1	1	
ominal pressure	0.4	1	2	4	10	20	40
gauge / absolute [ba		40		40	100	200	400
_evel gauge [mH ₂ C		10	20	40	100	200	400
Overpressure [ba	-	5	10	20	40	80	105
Burst pressure [ba		7.5	15	25	50	120	210
On customer request we adjust the d	levice within the tur	n-down-possibi	lity by software	on the required p	pressure range.		
Output signal / Supply							
Standard	2-wire: 4	20 mA / '	Vs = 12 36 V				
Option IS-protection			V _S = 14 28 V				
Options analog signal			ommunication i				
optionic analog eignat	-		Vs = 14 36 V				
			nmunication int				
² only possible with electrical connection	on Binder series 72	3 (7-pin)					
Performance							
Accuracy	IEC 60770 ³ : ≤	(+01%ESO					
	120 00770	10.1 /0100					
performance after turn-down - TD ≤ 1:5	no change of a	accuracy ⁴					
- TD ≤ 1:5 - TD > 1:5	u		land from 1 11			10 h	\ .
- 1.5				r nominal press	ure ranges ≤ 0.4	10 bar see note 4):
	≤ ± [0.1 + 0.01			- divert - t			
				adjusted range			
				iracy is calculat			
				/ is ≤ ± 0.25 %			
Permissible load	current 2-wire:		V _S min) / 0.02	Α] Ω	U	vire: R _{min} = 10 kΩ	
Influence effects	supply: 0.05 %					% FSO / kΩ	
Long term stability		/	/ year at refere	ence conditions			
Response time	approx. 5 mse						
Adjustability				ble (interface / s	software necess	ary ⁵):	
	- electronic da		00 sec				
	- offset: 0 9						
	- turn down of	enan may 1					
⁴ except nominal pressure ranges ≤ 0 $\leq \pm (0.1 + 0.02 \times turn-down) \% FSO e$ $\frac{5}{2}$ software, interface, and cable have to Thermal effects (Offset and Spa	imit point adjustmer 0 .40 bar; for these e.g. turn-down of 1: o be ordered separa an) / Permissible	t (non-linearity, calculation of a $3: \le \pm (0.1 + 0.0)$ ately (software a temperature	hysteresis, rep ccuracy is as fo 2 x 3) % FSO appropriate for V es	llows: i.e. accuracy is ≤ Vindows [®] 95, 98	, 2000, NT Versio	on 4.0 or higher, ai	nd XP)
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4 except nominal pressure ranges ≤ 0 ≤ ± (0.1 + 0.02 × turn-down) % FSO e 5 software, interface, and cable have to Thermal effects (Offset and Spa Tolerance band [% FSO TC, average [% FSO / 10 k	$\begin{array}{l} \text{init point adjustmer} \\ 0.40 \text{ bar; for these} \\ \text{e.g. turn-down of 1:} \\ \text{o be ordered separa} \\ \text{an) / Permissible} \\ \hline 0 \\ 0 \\ \leq \pm (0.2 \text{ x turn} \\ \hline 1 \\ \leq (0.02 \text{ x turn} - 1) \\ \end{array}$	t (non-linearity, calculation of a $3: \le \pm (0.1 + 0.0)$ ately (software a b temperature -down) down)	hysteresis, rep ccuracy is as fo 22 x 3) % FSO appropriate for k es in compens in compens	<i>llows:</i> i.e. accuracy is ≤ <i>Windows[®] 95, 98</i> ated range ated range	-20 80 °C -20 80 °C		·
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