

# **DMP 333P**

# Industrial Pressure Transmitter

Pressure Ports with Flush Welded Stainless Steel Diaphragm

accuracy according to IEC 60770: standard: 0.35 % span option: 0.25% span

### Nominal pressure

from 0 ... 60 bar up to 0 ... 600 bar

### **Output signals**

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

#### **Special characteristics**

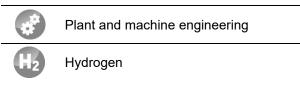
suited for viscous and pasty media

#### **Optional versions**

- IS-version
  Ex ia = intrinsically safe for gases and dusts (in preparation)
- gold-plated process connection for hydrogen applications
- customer specific versions

The The pressure transmitter DMP 333P is suitable for measuring the pressure of viscous, pasty or gaseous media and for applications that require a front-flush, dead space-free process connection. Especially for hydrogen applications there is the possibility to use the process connection with gold plating. A wide range of electrical connection variants are available to enable the DMP 333P to be integrated easily and quickly in the various system configurations.

## Preferred areas of use are



## Preferred used for



Viscous and pasty media





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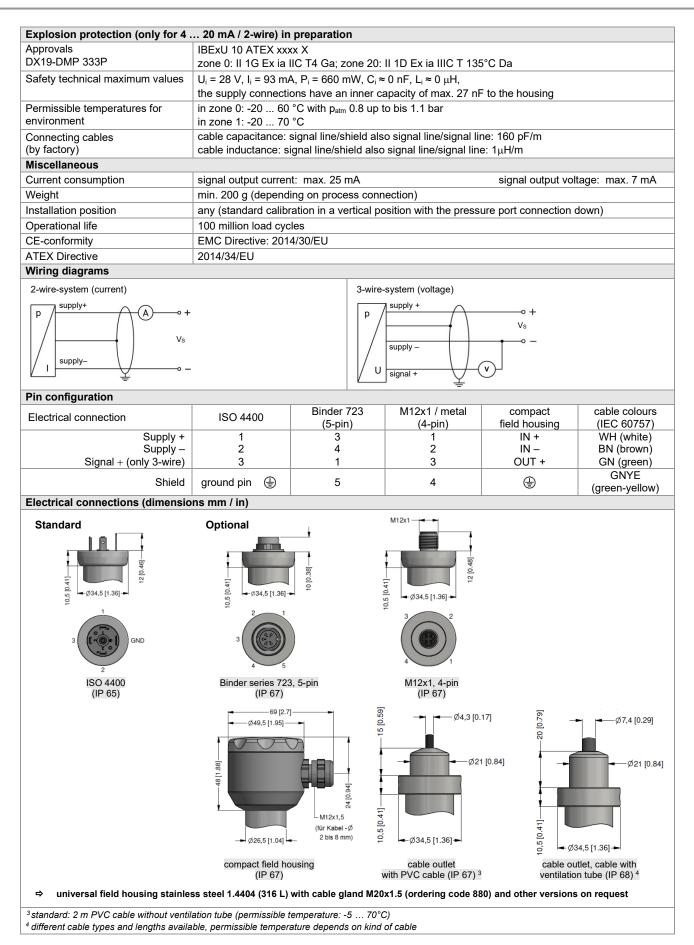
The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

# DMP 333P Industrial Pressure Transmitter

Input pressure range								
Nominal pressure gauge <sup>1</sup>	[bar]	60	100	-	-	-	-	
Nominal pressure absolute	[bar]	60	100	160	250	400	600	
Overpressure	[bar]	210	210	600	1000	1000	1000	
Burst pressure ≥	[bar]	1000	1000	1000	1250	1250	1800	
<sup>1</sup> measurement starts with ambier	nt pressi	ıre		1	11			
Output signal / Supply								
Standard		2-wire: 4 20 mA / V <sub>S</sub> = 8 32 V <sub>DC</sub>						
Option IS-protection		2-wire: $4 \dots 20 \text{ mA} / V_{\text{s}} = 10 \dots 28 V_{\text{DC}}$ (in preparation)						
Options 3-wire		3-wire: 0 10 V / $V_s$ = 14 30 $V_{DC}$						
Performance								
Accuracy <sup>2</sup>		standard: $\leq \pm 0.35$ % span						
		option: ≤ ± 0.25 % span						
Permissible load		current 2-wire: $R_{max} = [(U_B - U_{B min}) / 0.02 A] \Omega$						
		voltage 3-wire: $R_{min} = 10 \ k\Omega$						
Influence effects		supply: 0.05 % span / 10 V						
		load: 0.05 % span / kΩ						
Long term stability		≤ ± 0.1 % span / year at reference conditions						
Response time		2-wire: < 10 msec						
2	0 1	3-wire: ≤ 3 m						
<sup>2</sup> accuracy according to IEC 6077				esis, repeatability)				
Tolerance band	ermal effects (Offset and Span) / Permissible temperatures							
		≤ ± 0.75 % span						
In compensated range		-20 80 °C						
Permissible temperatures		medium: -40 125 °C						
		electronics / environment: -40 85 °C storage: -40 100 °C						
Electrical protection		storage:	-40 .	100 C				
Electrical protection permanent								
		permanent						
Reverse polarity protection		no damage, but also no function						
Electromagnetic compatibility Mechanical stability		emission and immunity according to EN 61326						
Vibration								
according to DIN EN 60068-2	2-6	20 g RMS (25 2000 Hz)						
Shock								
according to DIN EN 60068-2	2-27	500 g / 1 msec						
Filling fluids								
Standard		silicone oil						
		others on request						
Materials								
Housing		stainless steel 1.4404 (316 L)						
Option compact field housing		stainless steel 1.4301 (304);						
		cable gland M12x1.5, brass, nickel plated (clamping range 2 8 mm)						
Pressure port		standard: stainless steel 1.4404 (316 L) option: stainless steel 1.4404 (316 L), golden						
		others on request						
Diaphragm		standard: stainless steel 1.4435 (316 L)						
		option: stainless steel 1.4435 (316 L), golden						
		others on request						
Seals	FKM							
Media wetted parts		others on request						
		pressure port, seal,						
		diaphragm						
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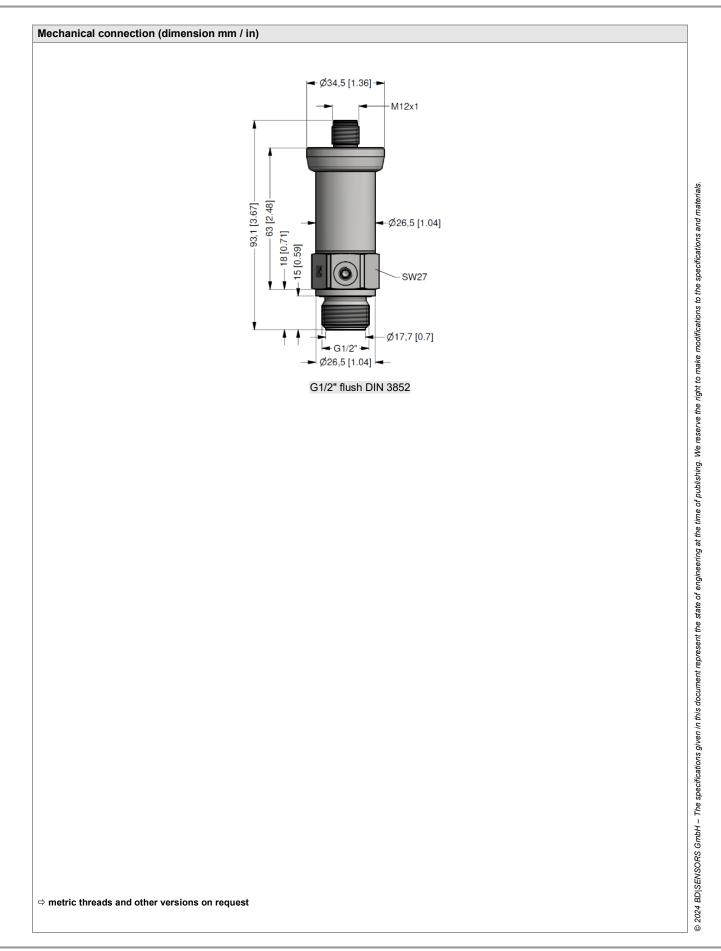


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DMP 333P

Industrial Pressure Transmitter



BD SENSORS<sup>®</sup> pressure measurement



Orderin	g code DMP 333P
23.08.2024	
DMP 333P	└┽┼┤╹└┽┞┼┥╹└╌┥╹└╌┥╹└┽┽┽┛╹└┽┥┶┥╹└┥╹└┥╹└┥╹└┽
Pressure	
Gauge <sup>1</sup>	5 4 C
Absolute	5 4 C 5 4 D
Input [bar]	
0 60	6 0 0 2
0 100	
0 160	
0 250	2 5 0 3
0 400	4 0 0 3
0 600	6 0 0 3
Customer	9 9 9 9
Output	
420 mA / 2-wire	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0 10 V / 3-wire	3
Intrinsic safety Ex ia 420 mA / 2-wire	E
Customer	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Accuracy	
0,35 %	3
0,25 %	2
Customer	9
Electrical connection	
Connector DIN 43650 (ISO 4400) (IP 65)	1 0 0
Connector Binder 723 5-pin (IP 67)	2 0 0
Cable outlet with PVC-cable (IP67) <sup>2</sup>	T A O
+ PVC cable / 1 m	
Connector M12 x 1, 4-pin (IP 67) - metal	M 1 0
Compact field housing - stainless steel 1.4301 (304)	8 5 0
Customer	M 1 0 8 5 0 9 9 9 9
Mechanical connection	
G 1/2" DIN 3852 flush	Z 0 0
Customer	9 9 9
Diaphragm	
Stainless steel 1.4435 (316 L)	1
Stainless steel 1.4435 (316L), gold-plated	G
Customer	9
Seals	
Viton (FKM)	1
Customer	9
Filling Fluids	
Silicone oil	1
Customer	9
Special version	
Standard	0 0 0
Customer	9 9 9

0,-...without additional charge

On request...in accordance with the producer

!!!! When you make an order it is necessary to fill the questionnaire for transmitter with separators!!! Surcharges for calibration are not subject to any discounts. Subject to change. This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data sheet. BD SENSORS reserves the right to change sensor specifications without further notice.

1 measurement starts with ambient pressure

2 code TR0 = PVC cable, cable with ventilation tube available in different types and lengths; cable not included in the price



