



# **DMK 331P**

Industrial Pressure Transmitter

Pressure Ports With Flush Welded Stainless Steel Diaphragm

accuracy according to IEC 60770: 0.5 % FSO

## Nominal pressure

from 0 ... 60 bar up to 0 ... 400 bar

## **Output signals**

2-wire: 4 ... 20 mA 3-wire: 0 ... 20 mA / 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
- SIL 2 according to IEC 61508 / IEC 61511
- food compatible filling fluid with FDA approval
- cooling element for media temperatures up to 300 °C
- customer specific versions

The pressure transmitter DMK 331P is suitable for measuring the pressure of viscous and pasty media, where a totally flush pressure port is required.

As on all industrial pressure transmitters made by BD|SENSORS, you may choose between various electrical and mechanical connections also on DMK 331P.

# Preferred areas of use are



Plant and Machine Engineering



Food Industry

#### Preferred used for



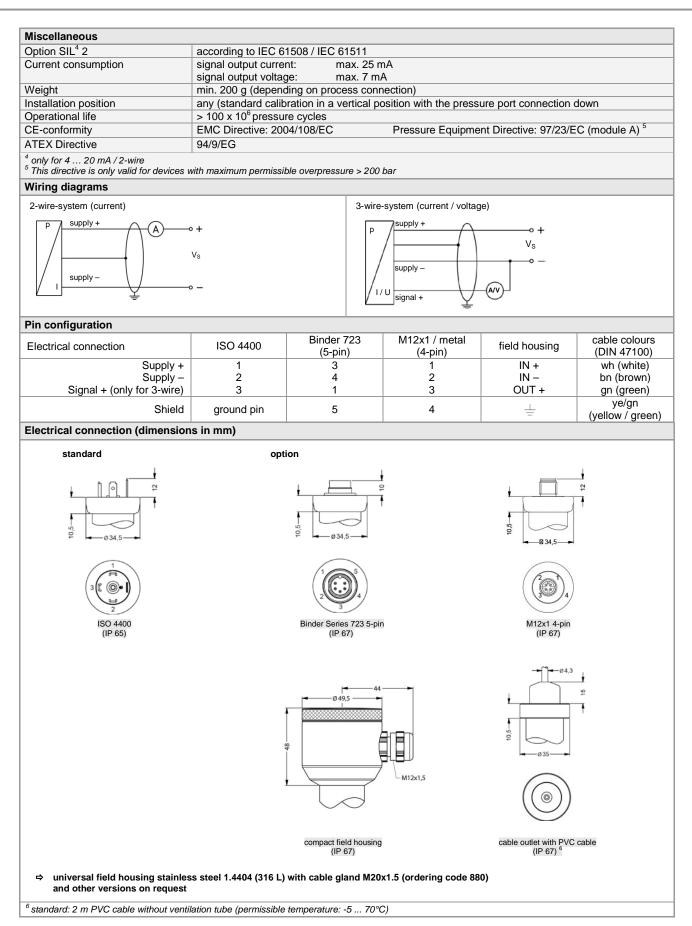
Viscous and Pasty Media

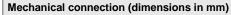


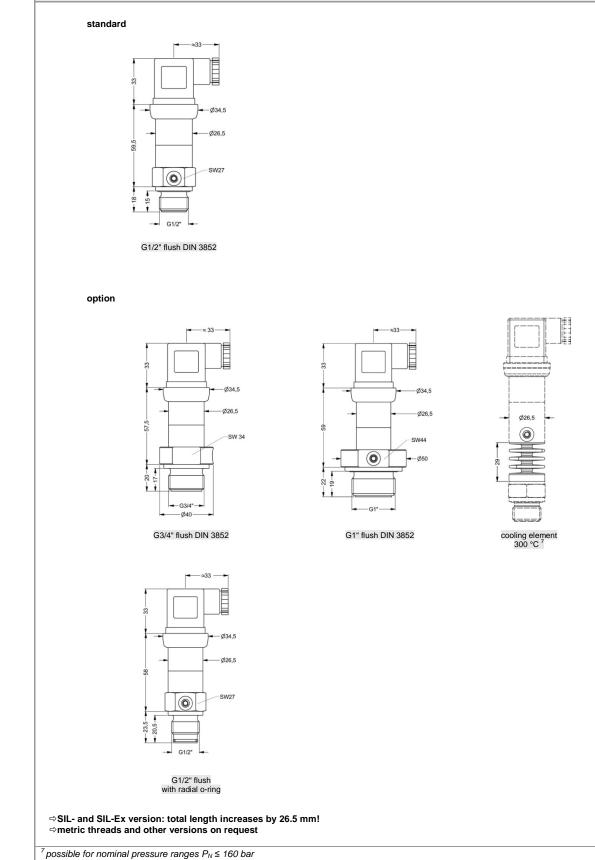


Tel: +49 (0) 92 35 / 98 11- 0 Fax: +49 (0) 92 35 / 98 11- 11

Input pressure range							
Nominal pressure	[bar]	60	100	160	250	400	
gauge / abs.							
Overpressure Burst pressure ≥	[bar] [bar]	<u> </u>	200 300	400 500	400 750	600 1000	
	[Dai]	100	500	300	750	1000	
Output signal / Supply							
Standard			mA / VS = 83		on: V <sub>S</sub> = 14 28 V <sub>D</sub>	C	
Option IS-protection			$mA / V_S = 10 \dots 28$		on: $V_{S} = 14 \dots 28 V_{D}$	С	
Options 3-wire			mA / $V_s = 14 \dots 30$ V / $V_s = 14 \dots 30$				
Performance							
Accuracy <sup>1</sup>		≤±0.5% FSO					
Permissible load		current 2-wire: $R_{max} = [(V_S - V_{S min}) / 0.02 \text{ A}] \Omega$ current 3-wire: $R_{max} = 500 \Omega$ voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$					
Influence effects		supply:         0.05 % FSO / 10 V           load:         0.05 % FSO / kΩ					
Long term stability			ar at reference cond	tions			
Response time		2-wire: ≤ 10 ms 3-wire: ≤ 3 ms					
<sup>1</sup> accuracy according to IEC 60	)770 – limit	point adjustment (non	-linearity, hysteresis, re	peatability)			
Thermal effects (Offset ar	nd Span)	<sup>2</sup> / Permissible ter	nperatures				
Thermal error		≤ ± 0.2 % FSO / 10	K				
in compensated range		-20 85°C					
Permissible temperatures <sup>3</sup>		medium: electronics / enviro	-10 125 nment: -40 85	-			
		storage:	-40 100	<u> </u>			
Derminaible temperature m							
for cooling element 300°C <sup>2</sup> an optional cooling element c	an influence	filling fluid silicone filling fluid food con e thermal effects for o pressure > 0 bar: 150	npatible oil over ffset and span dependir	pressure: -40 300 pressure: -10 250 og on installation positio a max environmental te	°C vacuum: - n and filling conditions.	40 150 °C 10 150 °C	
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	Ordering code DMK 331P	
DMK 331P		
ressure gauge	5 0 5 5 0 6	
absolute put [bar]		
60 100	6     0     0     2       1     0     0     3	
160 250	1 6 0 3 2 5 0 3	
400 customer	4 0 0 3 9 9 9 9	consult
utput		Consult
4 20 mA / 2-wire 0 20 mA / 3-wire		
0 … 10 V / 3-wire Intrinsic safety 4 … 20 mA / 2-wire	3 E	consult consult consult consult consult
SIL2 4 20 mA / 2-wire SIL2 with Intrinsic safety	1S	
4 20 mA / 2-wire	ES	
customer	9	consult
0.5 % customer	5 9	consult
ectrical connection		consult
Male and female plug ISO 4400 Male plug Binder series 723 (5-pin)	1 0 0 2 0 0	
Cable outlet with PVC-cable <sup>1</sup> Male plug M12x1 (4-pin) / metal	T A 0 M 1 0	
compact field housing	8 5 0	
stainless steel 1.4305 customer	9 9 9	consult
echanical connection G1/2" DIN 3852 with		
flush diaphragm	Z 0 0	
G3/4" DIN 3852 with flush diaphragm	Z 3 0	
G1" DIN 3852 with flush diaphragm	Z 3 1	
G 1/2" DIN 3852 with rad. o-ring and flush diaphragm	Z 6 1	
customer	9 9 9	consult
iaphragm Stainless steel 1.4435 (316L)	1	
customer	9	consult
FKM	1	
FFKM <sup>2</sup> customer	7 9	consult
Iling Fluids Silicone oil	1	
food compatible oil	2	
customer becial version	9	consult
standard with cooling element up to 300°C <sup>3</sup>	0 0 0 2 0 0 9 9 9	
customer	999	consult
andard: 2 m PVC cable without ventilation tube (permissly for $P_N \le 100$ bar possible lly for $P_N \le 160$ bar possible	ssible temperature: -5 70°C)	consult consult

