



#### Nominal pressure

from 0 ... 400 mbar up to 0 ... 600 bar

#### Output signal

2-wire: 4 ... 20 mA

3-wire: 0 ... 10 V (only for DMP 331i  
and LMP 331i)

others on request

#### Product characteristics

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

#### Optional versions

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

# DMP 331i / DMP333i LMP 331 i

## Precision Pressure Transmitter / Screw-in transmitter

Stainless Steel Sensor

accuracy according to EN IEC 62828-2:  
0.1 % span

The precision pressure transmitter DMP 331i and DMP 333i as well as the precision screw-in level probe LMP 331i demonstrate the further development of our industrial pressure transmitters.

The signal of the sensor is processed by the intelligent digital electronics with 16-bit A/D converter which is able to do an active temperature compensation and linearization. Due to this we are able to offer the transmitters with excellent measurement parameters and exceptionally attractive price.

#### Preferred areas of use are DMP 331i / DMP 333i



Laboratory Techniques



Energy production (gas consumption  
and thermal energy measurement)

#### Preferred areas of use are LMP 331i



Chemical / petrochemical industry



Environmental Engineering  
(water / sewage / recycling)



BD SENSORS s.r.o.  
Hradišťská 817  
CZ – 687 08 Buchlovice

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

Tel.: +420 572 411 011

[www.bdsensors.cz](http://www.bdsensors.cz)  
[info@bdsensors.cz](mailto:info@bdsensors.cz)



# DMP 331i / DMP 333i / LMP 331i

## Precision Pressure Transmitter / Screw-in Transmitter

Technical Data

Pressure ranges DMP 331 i <sup>1</sup>								
Nominal pressure gauge / absolute	[bar] [bar]	0.4	1	2	4	10	20	40
Overpressure	[bar]	2	5	10	20	40	80	105
Burst pressure	[bar]	3	7,5	15	25	50	120	210

<sup>1</sup> On customer request we adjust the device within the turn-down-possibility by software on the required pressure range.

Vacuum ranges					
Nominal pressure	[bar]	-0.4 ... 0.4	-1 ... 1	-1 ... 2	-1 ... 4
Overpressure	[bar]	2	5	10	20
Burst pressure	[bar]	3	7,5	15	25

Pressure ranges DMP 333 i <sup>1</sup>					
Nominal pressure gauge / absolute	[bar] [bar]	60	100	200	400
Overpressure	[bar]	210	210	600	1000
Burst pressure	[bar]	420	420	1000	1250

<sup>1</sup> On customer request we adjust the device within the turn-down-possibility by software on the required pressure range.

Pressure ranges LMP 331 i <sup>1</sup>								
Nominal pressure gauge	[bar]	0.4	1	2	4	10	20	40
Level gauge	[mH <sub>2</sub> O]	4	10	20	40	100	200	400
Overpressure	[bar]	2	5	10	20	40	80	105
Burst pressure	[bar]	3	7,5	15	25	80	120	210

<sup>1</sup> On customer request we adjust the device within the turn-down-possibility by software on the required pressure range.

Output signal / Supply							
Standard	2-wire:	4 ... 20 mA	/	V <sub>S</sub> = 12 ... 36 V <sub>DC</sub>			
Option IS-protection	2-wire:	4 ... 20 mA	/	V <sub>S</sub> = 14 ... 28 V <sub>DC</sub>			
Options analog signal	2-wire:	4 ... 20 mA with communication interface <sup>2</sup>					
	3-wire*:	0 ... 10 V	/	V <sub>S</sub> = 14 ... 36 V <sub>DC</sub>			
		0 ... 10 V with communication interface <sup>2</sup>					

\* only for DMP 331i and LMP 331i

<sup>2</sup> only possible with el. connection Binder series 723 (7-pin)

Performance							
Accuracy performance after turn-down	IEC 60770 <sup>3</sup> : $\leq \pm 0.1\%$ span no change of accuracy <sup>4</sup> for calculation use the following formula (for nominal pressure ranges $\leq 0.40$ bar see note 5): $\leq \pm [0.1 + 0.015 \times \text{turn-down}] \% \text{ span}$ with turn-down = nominal pressure range / adjusted range e.g. with a turn-down of 10:1 following accuracy is calculated: $\leq \pm (0.1 + 0.015 \times 10) \% \text{ span}$ i.e. accuracy is $\leq \pm 0.25\%$ span						
Permissible load	current 2-wire: R <sub>max</sub> = [(V <sub>S</sub> - V <sub>S</sub> min) / 0.02 A] Ω      voltage 3-wire: R <sub>min</sub> = 10 kΩ						
Influence effects	supply: 0.05 % span / 10 V      load: 0.05 % span / kΩ						
Long term stability	$\leq \pm (0.1 \times \text{turn-down}) \% \text{ span} / \text{year}$						
Response time	current output 4...20 mA (2-wire)      5ms voltage output 0 ... 10 V      25 ms						
Adjustability	configuration of following parameters possible (interface / software necessary <sup>5</sup> ): - electronic damping: 0 ... 100 sec - offset: 0 ... 90 % span - turn down of span: max. 10:1						

<sup>3</sup> accuracy according to EN IEC 62828-2 – limit point adjustment (non-linearity, hysteresis, repeatability)

<sup>4</sup> except nominal pressure ranges  $\leq 0.40$  bar; for these calculation of accuracy is as follows:

$\leq \pm (0.1 + 0.02 \times \text{turn-down}) \% \text{ span}$  e.g. turn-down of 3:1:  $\leq \pm (0.1 + 0.02 \times 3) \% \text{ span}$  i.e. accuracy is  $\leq \pm 0.16\%$  span

<sup>5</sup> software, interface, and cable have to be ordered separately (software appropriate for Windows® 95, 98, 2000, NT Version 4.0 or higher, and XP)

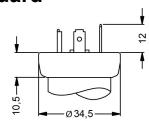
Thermal effects (Offset and Span) / Permissible temperatures							
Tolerance band	[% span]	$\leq \pm (0.2 \times \text{turn-down})$ in compensated range	-20 ... 80 °C				
TC, average	[% span / 10 K]	$\pm (0.02 \times \text{turn-down})$ in compensated range	-20 ... 80 °C				
Permissible temperatures		medium: -25 ... 125 °C	electronics / environment: -25 ... 85 °C      storage: -40 ... 100 °C				
Electrical protection							
Short-circuit protection		permanent					
Reverse polarity protection		no damage, but also no function					
Electromagnetic compatibility		emission and immunity according to EN 61326					

<b>Materials</b>								
Pressure port	stainless steel 1.4404 (316 L)							
Housing	stainless steel 1.4404 (316 L)							
Option field housing	stainless steel 1.4301 (304); cable gland M16x1.5, brass, nickel plated (clamping range 2 ... 8 mm)							
Seals	DMP 331i / LMP 331i: FKM DMP 333i: NBR optional: welded version <sup>6</sup> others on request							
Diaphragm	stainless steel 1.4435 (316L)							
Media wetted parts	pressure port, seals, diaphragm							
<sup>6</sup> welded version only with pressure ports according to EN 837; welded version not available with pressure ranges ≤ 0.16 bar and > 40 bar								
<b>Mechanical stability</b>								
Vibration	10 g RMS (20 ... 2000 Hz) according to DIN EN 60068-2-6							
Shock	100 g / 11 msec according to DIN EN 60068-2-27							
<b>Explosion protection (only for 4 ... 20 mA / 2-wire)</b>								
Approvals	DX9-DMP 331i DX9-DMP 333i DX9-LMP 331i							
	<b>IBExU10ATEX1122 X</b> zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135°C Da							
Safety technical max. values	$U_i = 28 \text{ V}$ , $I_i = 93 \text{ mA}$ , $P_i = 660 \text{ mW}$ , $C_i \approx 0 \text{ nF}$ , $L_i \approx 0 \mu\text{H}$ , the supply connections have an inner capacity of max. 27 nF to the housing							
Ambient temperature range	in zone 0: -20 ... 60 °C with $p_{atm}$ 0.8 bar up to 1.1 bar in zone 1 or higher: -20 ... 65 °C							
Connecting cables (by factory)	cable capacitance: signal line/shield also signal line/signal line: 160 pF/m cable inductance: signal line/shield also signal line/signal line: 1 μH/m							
<b>Miscellaneous</b>								
Current consumption	signal output current: max. 25 mA signal output voltage: max. 7 mA							
Weight	approx. 200 g							
Installation position	any <sup>7</sup>							
Operational life	100 million load cycles							
CE-conformity	EMC Directive: 2014/30/EU							
ATEX Directive	Pressure Equipment Directive: 2014/68/EU (module A) <sup>8</sup> 2014/34/EU							
<sup>7</sup> Pressure transmitters are calibrated in a vertical position with the pressure connection down. If this position is changed on installation there can be slight deviations in the zero point for pressure ranges $P_N \leq 1 \text{ bar}$ .								
<sup>8</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar								
<b>Wiring diagrams</b>								
2-wire-system (current)	3-wire-system (voltage)							
<b>Pin configuration</b>								
Electrical connections	ISO 4400  Binder 723 (5-pin)  Binder 723/423 (7-pin)  M12x1/ metal (4-pin)  field housing  Bayonet MIL-C-26482 (10-6)  cable colours (DIN 47100)	2-wire	2-wire					
supply + supply - signal + (only for 3-wire)	1 2 3	3 4 1	3 1 6	1 2 3	Vs + Vs - S +	A B -	A D B	wh (white) bn (brown) gn (green)
shield	ground pin	5	2	4	GND	pressure port		gn/ye (green/yellow)
Communication interface <sup>9</sup>	RxD TxD GND	- - -	- - -	4 5 7	- - -	- - -	- - -	- - -

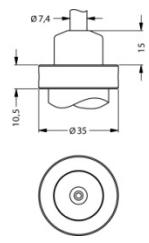
<sup>9</sup> may not be transmitted directly with the PC (the suitable adapter is available as accessory)

**Electrical connections (dimensions in mm)**

**standard**

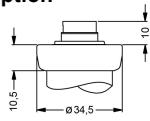


ISO 4400  
(IP 65)

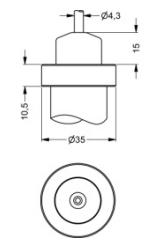


cable outlet with ventilation tube  
(IP 68)<sup>10</sup>

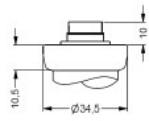
**option**



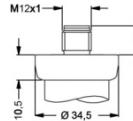
Binder Series 723 5-pin  
(IP 67)



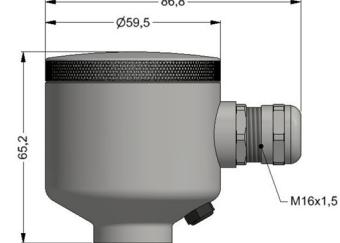
cable gland PG7/cable length specify  
(IP 67)<sup>11</sup>



Binder Series 723 7-pin  
(IP 67)



M12x1 4-pin  
(IP 67)



field housing  
(IP 67)

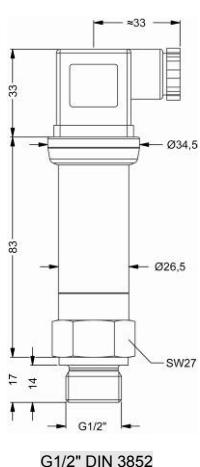
<sup>10</sup> different cable types and lengths available, permissible temperature depends on kind of cable

<sup>11</sup> standard: 2 m PVC cable (without ventilation tube, permissible temperature: -5 ... 70 °C)

**Mechanical connection (dimensions in mm)**

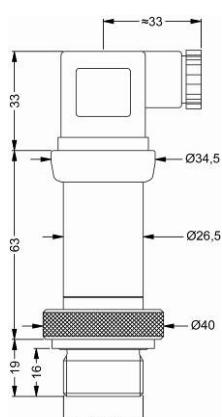
**standard**

**DMP 331 i / DMP 333 i \***



G1/2" DIN 3852

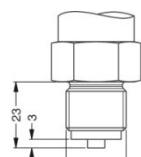
**LMP 331 i**



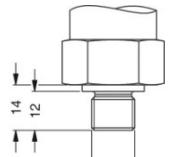
G3/4" DIN 3852

\* for nominal pressure  $P_N > 400$  bar increases the length of DMP 333i without IS-version by 19 mm and of DMP 333i with IS-version by 39 mm

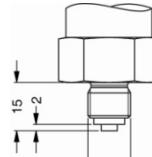
**option for DMP 331 i and DMP 333 i**



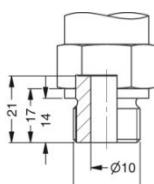
G1/2" EN 837



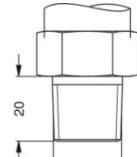
G1/4" DIN 3852



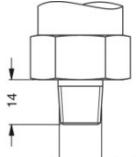
G1/4" EN 837



G1/2" open port



1/2" NPT



1/4" NPT

□ metric threads and others on request

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Ordering code DMP 331i

10.3.2021

DMP 331i

<input type="checkbox"/>												
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**Pressure**

Gauge (0,4...40 bar)

1 1 0

Absolute (0,4...40 bar)

1 1 1

**Input [bar]**

0 ... 0,4

4 0 0 0

0 ... 1

1 0 0 1

0 ... 2

2 0 0 1

0 ... 4

4 0 0 1

0 ... 10

1 0 0 2

0 ... 20

2 0 0 2

0 ... 40

4 0 0 2

-0,4 ... 0,4

S 4 0 0

-1 ... 1

S 1 0 2

-1 ... 2

V 2 0 2

-1 ... 4

V 4 0 2

-1 ... 10

V 1 0 3

Customer

9 9 9 9

Customer - underpressure

X X X X

**Output**

4...20 mA / 2-wire

1

0...10 V / 3-wire

3

Intrinsic safety Ex ia 4...20 mA / 2-wire

E

Intrinsic safety M1 Ex ia 4...20 mA / 2-wire (for mines)

F

Customer

9

**Accuracy**

0,1 % - standard range

1

0,1 % - standard range including Calibration Certificate

P

0,1 % - customer range

I

0,1 % - customer range including Calibration Certificate

H

0,2 % ( $P_N < 0,1$  bar)

B

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 gland PG7 / cable length specify (IP 67)

4 0 0

+ PVC cable / 1 m

Connector Buccaneer (IP 68)

5 0 0

Field housing stainless steel, cable gland M 16 x 1,5 (IP 67)

8 0 0

Field housing stainless steel, cable gland M 20 x 1,5 (IP 67)

8 8 0

Connector Binder 723 and 423 7-pin (IP 67) (for Interface RS 232)

A 0 0

Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)

E 0 0

Connector M12 x 1, 4-pin (IP 67)

M 0 0

Connector M12 x 1, 4-pin (IP 67) - metal

M 1 0

Cable outlet, cable with ventilation tube (IP68)<sup>1</sup>

T R 0

+ PVC cable / 1 m

Customer

9 9 9

**Mechanical connection**

G 1/2" DIN 3852

1 0 0

G 1/2" EN 837

2 0 0

G 1/4" DIN 3852

3 0 0

G 1/4" EN 837

4 0 0

M 20 x 1,5 DIN 3852

5 0 0

M 12 x 1 DIN 3852

6 0 0

M 10 x 1 DIN 3852

7 0 0

M 20 x 1,5 EN 837

8 0 0

G 1/2" DIN 3852 with flush sensor diaphragm<sup>2</sup>

F 0 0

M 20 x 1,5 DIN 3852 with flush sensor diaphragm

F 0 4

1/2" NPT

N 0 0

1/4" NPT

N 4 0

Customer

9 9 9



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CZ – 687 08 Buchlovice

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Tel.: +420 572 411 011  
Fax: +420 572 411 497

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**Seals**

Viton (FKM)	1			
Without seals - welded (only with EN 837-1/-3) <sup>2,3</sup>	2			
EPDM	3			
Viton (FKM) up to -40°C	F			
Customer	9			

**Special version**

Standard	1	1	1
Temperature compensation -30 ... 80°C (only with seals "F" or welded "2")	1	1	2
Interface RS 232 (only for connector Binder 723/423 7-pin) <sup>4</sup>	1	2	1
Customer	9	9	9

**Software for set up on site**

Communication module ADAPT-1 (RS 232 for DMP 331i, DMP 333i) INT-501			
Communication module ADAPT-5 (RS 232 / USB for DMP 331i, DMP 333i) + software			

Software for DMP 331i, 333i / update code 503498

Assembly (module + software for DMP 331i, 333i) ADAPT-1, INT-502

0,-...without additional charge

On request...in accordance with the producer

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

2 only possible for DMP 331i and P<sub>N</sub> ≤ 40 bar

3 welded version only with pressure ports according to EN 837

4 Communication interface RS232 only possible with el. connection Binder serie 723/423 (7pin)

Software, Interface and cable for DMP 331i with option RS-232 have to be order separately

(Ordering code: CIS-G; Software appropriate for Windows® 95, 98, 2000, NT Version 4.0 or newer and XP)

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[www.bdsensors.cz](http://www.bdsensors.cz)  
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Ordering code DMP 333i

10.8.2022

DMP 333i

		-		-		-		-		-		-	
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Pressure													
Gauge <sup>1</sup>	1	3	0										
Absolute	1	3	1										
Input [bar]													
0 ... 60	6	0	0	2									
0 ... 100 <sup>2</sup>	1	0	0	3									
0 ... 200 <sup>2</sup>	2	0	0	3									
0 ... 400 <sup>2</sup>	4	0	0	3									
0 ... 600 <sup>2</sup>	6	0	0	3									
Customer	9	9	9	9									
Output													
4...20 mA / 2-wire				1									
Intrinsic safety Ex ia 4...20 mA / 2-wire				E									
Intrinsic safety M1 Ex ia 4 ... 20 mA / 2-wire (for mines)				F									
Customer				9									
Accuracy													
0,1 % - standard range				1									
0,1 % - standard range including Calibration Certificate				P									
0,1 % - customer range				I									
0,1 % - customer range including Calibration Certificate				H									
0,2 % ( $P_N < 0,1$ bar)				B									
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 gland PG7 / cable length specify (IP 67)				4	0	0							
+ PVC cable / 1 m													
Connector Buccaneer (IP 68)				5	0	0							
Field housing stainless steel, cable gland M 16 x 1,5 (IP 67)				8	0	0							
Field housing stainless steel, cable gland M 20 x 1,5 (IP 67)				8	8	0							
Connector Binder 723 and 423 7-pin (IP 67) (for Interface RS 232)				A	0	0							
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)				E	0	0							
Connector M12 x 1, 4-pin (IP 67)				M	0	0							
Connector M12 x 1, 4-pin (IP 67) - metal				M	1	0							
Cable outlet, cable with ventilation tube (IP 68) <sup>3</sup>				T	R	0							
+ PVC cable / 1 m													
Customer				9	9	9							
Mechanical connection													
G 1/2" DIN 3852					1	0	0						
G 1/2" EN 837					2	0	0						
G 1/4" DIN 3852					3	0	0						
G 1/4" EN 837					4	0	0						
M 20 x 1,5 DIN 3852					5	0	0						
M 12 x 1 DIN 3852					6	0	0						
M 10 x 1 DIN 3852					7	0	0						
M 20 x 1,5 EN 837					8	0	0						
G1/2" DIN 3852 open pressure port					H	0	0						
1/2" NPT					N	0	0						
1/4" NPT					N	4	0						
Customer					9	9	9						
Seals													
Viton (FKM)							1						
Without seals - welded (only with EN 837-1/-3; only for $P_N < 170$ bar)							2						
EPDM ( $P_N < 160$ bar)							3						
NBR (standard)							5						
Customer							9						
Special version													
Standard							1	1	1				
Interface RS 232 (only for connector Binder 723/423 7-pin) <sup>4</sup>							1	2	1				
Customer							9	9	9				
Software for the intelligent pressure transmitters													



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Communication module ADAPT-1 (RS 232 for DMP 331i, DMP 333i), INT-501

Communication module ADAPT-5 (RS 232 / USB for DMP 331i, DMP 333i) + software

Software for DMP 331i, 333i / update code 503498

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0,-...without additional charge

On request...in accordance with the producer

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1 measurement starts with ambient pressure

2 pressure ranges > 60 bar as DMP 333i

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

4 Communication interface RS232 only possible with el. connection Binder serie 723/423 (7pin)

Software, Interface and cable for DMP 333i with option RS-232 have to be order separately

(Ordering code: CIS-G; Software appropriate for Windows® 95, 98, 2000, NT Version 4.0 or newer and XP)



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Hradišťská 817  
CZ – 687 08 Buchlovice

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

Tel.: +420 572 411 011  
Fax: +420 572 411 497

[www.bdsensors.cz](http://www.bdsensors.cz)  
[info@bdsensors.cz](mailto:info@bdsensors.cz)



Ordering code LMP 331i

1.3.2021

LMP 331i

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Pressure		4 3 0																		
in bar		4 3 0																		
in m H <sub>2</sub> O		4 3 1																		
Input	[mH <sub>2</sub> O]	[bar]																		
0 ... 4	0 ... 0,4		4 0 0 0																	
0 ... 10	0 ... 1		1 0 0 1																	
0 ... 20	0 ... 2		2 0 0 1																	
0 ... 40	0 ... 4		4 0 0 1																	
0 ... 100	0 ... 10		1 0 0 2																	
0 ... 200	0 ... 20		2 0 0 2																	
0 ... 400	0 ... 40		4 0 0 2																	
Customer			9 9 9 9																	
Housing material																				
Stainless steel 1.4404 (316 L)				1																
Diaphragm material																				
Stainless steel 1.4435 (316 L)					1															
Output																				
4 ... 20 mA / 2-wire						1														
0 ... 10 V / 3-wire <sup>3</sup>						3														
Intrinsic safety Ex ia 4 ... 20 mA / 2-wire						E														
Intrinsic safety M1 Ex ia 4 ... 20 mA / 2-wire (for mines)						F														
Customer						9														
Accuracy																				
0,1 % - standard range							1													
0,1 % - standard range including Calibration Certificate							P													
0,1 % - customer range							I													
0,1 % - customer range including Calibration Certificate							H													
0,2 % (P <sub>N</sub> < 0,1 bar)							B													
Customer							9													
Electrical connection																				
Connector DIN 43650 (ISO 4400) (IP 65)							1 0 0													
Connector ISO 4400 (IP 65) + silicone seals for Ex nA							1 0 5													
Connector Binder Serie 723 5-pin (IP 67)							2 0 0													
Cable gland PG7 / cable length specify (IP 67)							4 0 0													
+ PVC cable / 1 m																				
Connector Buccaneer (IP 68)							5 0 0													
Field housing stainless steel, cable gland M 16 x 1,5 (IP 67)							8 0 0													
Field housing stainless steel, cable gland M 20 x 1,5 (IP 67)							8 8 0													
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)							E 0 0													
Connector Binder 723 and 423 7-pin (IP 67) (for Interface RS 232)							A 0 0													
Connector M12 x 1, 4-pin (IP 67)							M 0 0													
Connector M12 x 1, 4-pin (IP 67) - metal							M 1 0													
Cable outlet, cable with ventilation tube (IP68) <sup>1</sup>							T R 0													
+ PVC cable / 1 m																				
Customer							9 9 9													
Mechanical connection																				
G 3/4" DIN 3852								K 0 0												
Customer								9 9 9												
Electrical connection																				
Viton (FKM)									1											
EPDM									3											
Customer									9											
Special version																				
Standard										1 1 1										
Interface RS 232 (only for connector Binder Serie 723/423 7-pin) <sup>2</sup>										1 2 1										
Customer										9 9 9										

0,-...without additional charge

On request...in accordance with the producer



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Surcharge 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.

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

2 not in combination with SIL

3 maximum length of PVC cable – 25 m, PUR, FEP, TPE – 40 m



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