



LMP 307

Stainless Steel Probe

Stainless Steel Sensor

accuracy according to IEC 60770: standard: 0.35 % FSO options: 0.25 % / 0.1 % FSO

Nominal pressure

from 0 ... 1 mH₂O up to 0 ... 250 mH₂O

Output signals

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

Special characteristics

- diameter 26.5 mm
- small thermal effect
- high accuracy
- good long term stability

Optional versions

- **IS-version** Ex ia = intrinsically safe for gas and dust
- SIL 2 (Safety Integrity Level)
- drinking water certificate according to DVGW and KTW
- different kinds of cables and elastomers
- petrol-version welded pressure sensor and housing
- mounting with stainless steel pipe

The stainless steel probe LMP 307 is designed for continuous level measurement in water and clean or lightly polluted fluids.

Basic element is a high quality stainless steel sensor with high requirements for exact measurement with good long term stability.

Preferred areas of use are



Water / filtrated sewage drinking water systems ground water level measurement



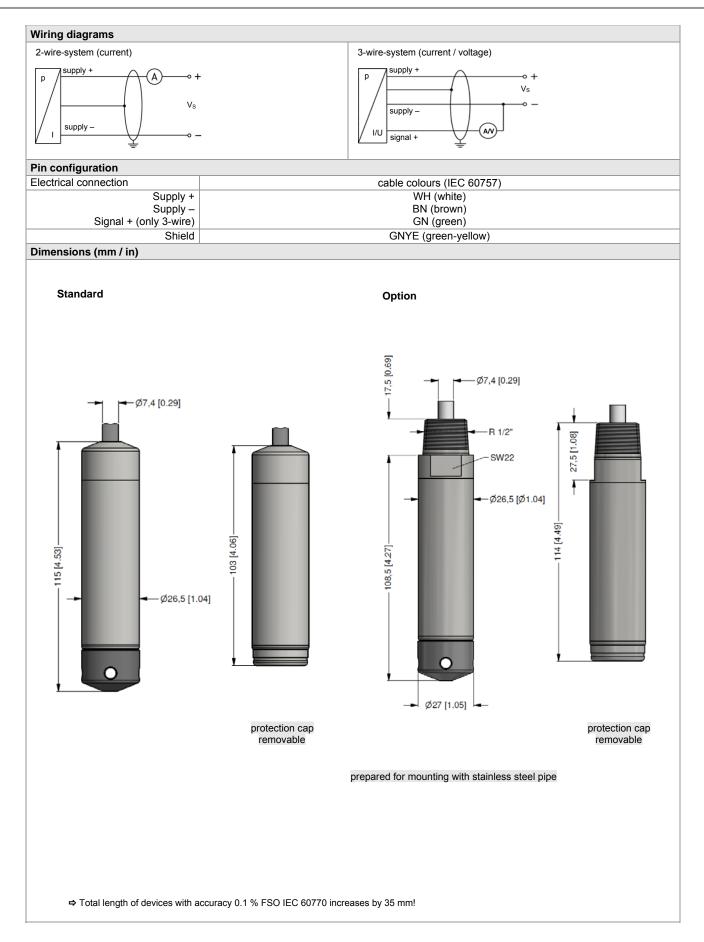
rain spillway basins pump and booster stations level measurement in containers water treatment plants water recycling



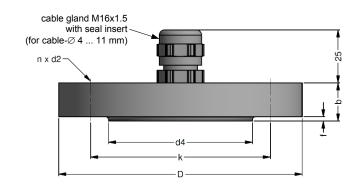
Fuel and oil fuel storage tank farms



	 -							1			1 -			
Nominal pressure gauge		0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25
Level	[mH ₂ O]	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40	40	80	80
Burst pressure ≥	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50	50	120	120
Output signal / Supply														
Standard		2-wire:	4 .	. 20 mA	$\sqrt{V_s}$ =	83	2 V _{DC}		S	IL-versi	on: V _s =	14 2	8 V _{DC}	
Option IS-version		2-wire:				10 28						14 2		
Options 3-wire		3-wire:				14 30					-	14 3		
Performance							DC		-				0.00	
Accuracy ¹		standa	rd [.] no	minal p	ressure	< 0.4 ba	ar:	≤ + 0	5 % FSO					
, local acy		standard: nominal pressure < 0.4 bar: ≤ ± 0.5 % FSO nominal pressure ≥ 0.4 bar: ≤ ± 0.35 % FSO												
		option	1: nc	minal p	ressure	≥ 0.4 ba	ır:	≤±0.	25 % FSC)				
		option				essures:			1 % FSO					
Permissible load						′ _{S min}) / 0.	.02 A] 🤉							
				R _{max} =					e 3-wire:					
Influence effects				FSO /				load: (0.05 % FS	SO / kΩ				
Long term stability				,	at refere	nce con	ditions							
Response time	00770 "	1	≤ 10 m						: ≤ 3 ms	ec				
¹ accuracy according to IEC			justment	(non-line	earity, hy	steresis, r	epeatab	llity)						
Thermal effects (Offset)												
Nominal pressure p _N	[bar]				< 0.40						<u>> 0.4</u>			
Tolerance band	[% FSO]				≤±1						≤±0	.75		
in compensated range	[°C]							0 7	J					
Permissible temperatur	res													
Permissible temperature	s	mediur	n: -10 .	70 °C				storag	e: -25	70 °C				
Electrical protection ²														
Short-circuit protection		permai	nent											
Reverse polarity protection	on	no dan	nage, bu	it also n	o functi	on								
Electromagnetic compati						ling to E								
² additional external overvol	tage protecti	on unit in	terminal	box KL 1	or KL 2	with atmo	ospheric	pressur	e reference	e availab	le on req	uest		
Electrical connection	2		, <u> </u>			~								
Cable with sheath materi	ial ^s	PVC PUR		70 °C)		Ø 7.4 r Ø 7.4 r								
						Ø 7.4 r								
				70 °C)				(witho	ut / with c	Irinking	water c	ertificate)	
Bending radius		static i	nstallatio	on: 10-fc	old cable	e diamet	er		nic applica	-			,	
³ shielded cable with integra						erence								
⁴ do not use freely suspende		h an FEF		offooto d										
Materials (media wetter			cable if	enecis a	ue to hig		ng proce	esses ar	e expected	1				
	d)	1					ng proce	esses ar	e expected	1				
Housing	d)	stainle	ss steel	1.4404	(316L)	hly chargi					5	- 44		
Seals	a)	stainle: FKM; E	ss steel PDM (v	1.4404 vithout /	(316L) with dri	hly chargi			e expected		5	other	rs on rec	luest
Seals Diaphragm	d)	stainle: FKM; E stainle:	ss steel PDM (v ss steel	1.4404	(316L) with dri	hly chargi					5	other	rs on rec	luest
Seals Diaphragm Protection cap	3)	stainles FKM; E stainles POM-C	ss steel PDM (v ss steel	1.4404 vithout / 1.4435	(316L) with dri (316L)	hly chargi					5	other	rs on rec	luest
Seals Diaphragm Protection cap Cable sheath		stainles FKM; E stainles POM-C PVC, F	ss steel PDM (v ss steel PUR, FE	1.4404 vithout / 1.4435 P, TPE-	(316L) with dri (316L)	hly chargi	ater cer				5	other	's on rec	luest
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL	. version and	stainles FKM; E stainles POM-C PVC, F	ss steel PDM (v ss steel PUR, FE	1.4404 vithout / 1.4435 P, TPE- on with F	(316L) with dri (316L)	hly chargi	ater cer				5	other	rs on rec	luest
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c	. version and only for 4	stainles FKM; E stainles POM-C PVC, F only in c	ss steel PDM (v ss steel C PUR, FE ombination	1.4404 vithout / 1.4435 P, TPE- on with F e)	(316L) with dri (316L) U EP cable	nking wa	ater cer	tificate)			5	other	s on rec	juest
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL	. version and only for 4	stainles FKM; E stainles POM-C PVC, F only in c 20 mA	ss steel PDM (v ss steel PUR, FE ombination 10 ATE	1.4404 vithout / 1.4435 P, TPE- on with F e)	(316L) with dri (316L) U EP cable	hly chargi	ater cer	tificate)	; welded	version		other		
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c	. version and only for 4 7	stainles FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0	ss steel PDM (v ss steel PUR, FE ombination 10 ATE 11 1G	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC	(316L) with dri (316L) U <i>EP cable</i> X / IE C T4 Ga	nking wa	ater cer	tificate <u>;</u> 27X	; welded	version				
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30	. version and only for 4 7	stainles FKM; E stainles POM-C PVC, F only in c . 20 mA IBExU zone 0 U _i = 28	ss steel PDM (v ss steel PUR, FE ombination / 2-wir 10 ATE : II 1G V, I _I = S	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, F	(316L) with dri (316L) U EP cable X / IE C T4 Ga P _i = 660	nking wa possible ECEx IBI mW, C ₁	ater cer E 12.00 ≈ 0 nF,	tificate) 27X Li≈0	; welded	version	II 1D E			
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximum Permissible temperatures	. version and only for 4 7 m values	stainle: FKM; E stainle: POM-C PVC, F only in c 20 mA IBExU zone 0 U _i = 28 the sup	ss steel PDM (v ss steel PUR, FE ombination / 2-wir 10 ATE : II 1G I V, I _i = s oply con	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 03 mA, I nections	(316L) with dri (316L) U EP cable X / IE X / IE X / IE X / IE C T4 Ga P ₁ = 660 s have a	nking wa possible ECEx IBI mW, C _i an inner	ater cer E 12.00 ≈ 0 nF, capacit	tificate; 27X $L_i \approx 0$ y of ma	; welded z uH, x. 27 nF	version one 20: to the h	II 1D E ousing	x ia IIIC	T135 °(C Da
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment	. version and only for 4 7 m values	stainle: FKM; E stainle: POM-C PVC, F only in c IBExU zone 0 U _i = 28 the sup in zone	ss steel PDM (v ss steel PUR, FE ombination / 2-wir 10 ATE : II 1G I V, I _i = 9 pply con	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 93 mA, I nections 60 °C	(316L) with dri (316L) U EP cable X / IE X / IE X / IE X - 660 s have a with p _a	hly chargi nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba	ater cer E 12.00 ≈ 0 nF, capacit r up to	tificate; 27X L _i ≈ 0 y of ma 1.1 bar	; welded z uH, x. 27 nF	version one 20: to the h	II 1D E ousing or high		T135 °(C Da
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables	. version and only for 4 7 m values	stainle: FKM; E stainle: POM-C PVC, F only in c .20 mA IBExU zone 0 U _i = 28 the sup in zone cable c	ss steel PDM (v ss steel PUR, FE ombination / 2-wir / 2-wir / 2-wir / 2-wir / 10 ATE : II 1G I V, I ₁ = 9 pply con e 0: -20 capacita	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, F nections 60 °C nce:	(316L) with dri (316L) U EP cable X / IE X / IE X - IE	hly chargi nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s	tificate) 27X Li ≈ 0 y of ma 1.1 bar signal li	; welded ; welded μH, x. 27 nF ir ne/signal	version one 20: to the h i zone 1 line: 16	II 1D E ousing or high 0 pF/m	x ia IIIC	T135 °(C Da
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables (by factory)	. version and only for 4 7 m values	stainle: FKM; E stainle: POM-C PVC, F only in c .20 mA IBExU zone 0 U _i = 28 the sup in zone cable c	ss steel PDM (v ss steel PUR, FE ombination / 2-wir 10 ATE : II 1G I V, I _i = 9 pply con	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, F nections 60 °C nce:	(316L) with dri (316L) U EP cable X / IE X / IE X - IE	hly chargi nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s	tificate) 27X Li ≈ 0 y of ma 1.1 bar signal li	; welded z uH, x. 27 nF	version one 20: to the h i zone 1 line: 16	II 1D E ousing or high 0 pF/m	x ia IIIC	T135 °(C Da
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Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables (by factory) Miscellaneous Option SIL 2 version ⁶	. version and only for 4 7 m values s for	stainle: FKM; E stainle: POM-C PVC, F Only in c . 20 mA IBExU zone 0 U _i = 28 the sup in zone cable c cable i	ss steel PDM (v ss steel 2 UR, FE combination / 2-wird 10 ATE : II 1G I V, I _i = 9 poly con e 0: -20 capacita nductan	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, F nections 60 °C nce: ce: C 6150	(316L) with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a signal I signal I signal I signal I	hly chargi nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel 61511	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s d also s	tificate) 27X Li ≈ 0 y of ma 1.1 bar signal li	; welded ; welded μH, x. 27 nF ir ne/signal	version one 20: to the h i zone 1 line: 16	II 1D E ousing or high 0 pF/m	x ia IIIC	T135 °(C Da
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Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables (by factory) Miscellaneous Option SIL 2 version ⁶ Drinking water certificate Current consumption Weight	. version and only for 4 7 m values s for	stainle: FKM; E stainle: POM-C PVC, F only in c . 20 mA IBExU zone 0 U _i = 28 the sup in zone cable of cable o	ss steel PDM (v ss steel PUR, FE ombination / 2-wirk / 2-wirk / 10 ATE : II 1G I V, I ₁ = 9 poply con e 0: -20 capacita inductan ing to IE ing to D rder the poutput c	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC J3 mA, I nections 60 °C nce: ce: C 6150 VGW W indicati	(316L) with dri (316L) U EP cable X / IE X / IE	nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel 61511 nd UBA ł u drinking	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s d also s	tificate) 27X L _i ≈ 0 y of ma 1.1 bar signal li	; welded z µH, x. 27 nF ir ne/signal ne/signal ate" is ne	version one 20: to the h i zone 1 line: 16 line: 1 j cessary	II 1D E ousing or high 0 pF/m uH/m	ix ia IIIC er: -40/-	T135 °(20 70	°C
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables (by factory) Miscellaneous Option SIL 2 version ⁶ Drinking water certificate Current consumption Weight Ingress protection	. version and only for 4 7 m values s for	stainle: FKM; E stainle: POM-C PVC, F Only in c . 20 mA IBExU zone 0 U _i = 28 the sup in zone cable c cable i accord accord (with o signal approx IP 68	ss steel PDM (v ss steel PUR, FE ombination / 2-wirr 10 ATE : II 1G I V, I _i = § pply con e 0: -20 capacita inductan ing to IE ing to D rder the putput c . 200 g	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 3 mA, F nections 60 °C nce: ce: C 6150 VGW W indicati urrent:	(316L) with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a signal I signal I signal I signal I 270 ar on "with max. 25 cable)	nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel 61511 nd UBA ł u drinking	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s d also s	tificate) 27X L _i ≈ 0 y of ma 1.1 bar signal li	; welded z µH, x. 27 nF ir ne/signal ne/signal ate" is ne	version one 20: to the h i zone 1 line: 16 line: 1 j cessary	II 1D E ousing or high 0 pF/m uH/m	ix ia IIIC er: -40/-	T135 °(20 70	°C
Seals Diaphragm Protection cap Cable sheath ⁵ not in combination with SIL Explosion protection (c Approvals DX19-LMP 30 Safety technical maximu Permissible temperatures environment Connecting cables (by factory) Miscellaneous Option SIL 2 version ⁶ Drinking water certificate Current consumption Weight	. version and only for 4 7 m values s for	stainle: FKM; E stainle: POM-C PVC, F Only in c . 20 mA IBExU zone 0 U _i = 28 the sup in zone cable c cable i accord accord (with o signal approx IP 68	ss steel PDM (v ss steel PUR, FE ombination / 2-wir 10 ATE : II 1G I V, I _i = § poly con a 0: -20 capacita inductan ing to IE ing to D rder the putput c . 200 g	1.4404 vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 03 mA, F nections 60 °C nce: ce: C 6150 VGW W indicati urrent: (without	(316L) with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a signal I signal I signal I signal I 270 ar on "with max. 25 cable)	nking wa possible ECEx IBI mW, C _i an inner tm 0.8 ba ine/shiel 61511 nd UBA ł u drinking	ater cer E 12.00 ≈ 0 nF, capacit r up to d also s d also s	tificate) 27X L _i ≈ 0 y of ma 1.1 bar signal li	; welded z µH, x. 27 nF ir ne/signal ne/signal ate" is ne	version one 20: to the h i zone 1 line: 16 line: 1 j cessary	II 1D E ousing or high 0 pF/m uH/m	ix ia IIIC er: -40/-	T135 °(20 70	°C



Mounting flange with cable gland



dimensions in mm						
size	DN25 /	DN50 /	DN80 /			
Size	PN40	PN40	PN16			
b	18	20	20			
D	115	165	200			
d2	14	18	18			
d4	68	102	138			
f	2	3	3			
k	85	125	160			
n	4	4	8			

Technical data Suitable for all probes Flange material stainless steel 1.4404 (316L) on request: stainless steel 1.4305 (303); plastic Material of cable gland standard: brass, nickel plated Seal insert material: TPE (ingress protection IP 68) according to DIN 2507 Hole pattern Ordering type Ordering code Weight 1.4 kg DN25 / PN40 with cable gland brass, nickel plated ZMF2540 3.2 kg DN50 / PN40 with cable gland brass, nickel plated ZMF5040 ZMF8016 DN80 / PN16 with cable gland brass, nickel plated 4.8 kg

Terminal clamp



Technical data			
Suitable for	all probes with cable \emptyset 5.5 10.	.5 mm	
Material of housing	standard: steel, zinc plated	optionally: stainless stee	1.4301 (304)
Material of clamping jaws and positioning clips	PA (fibre-glass reinforced)		
Dimensions (mm)	174 x 45 x 32		
Hook diameter	20 mm		
Ordering type		Ordering code	Weight
Terminal clamp, steel, zinc plat	ed	Z100528	100
Terminal clamp, stainless steel	1.4301 (304)	Z100527	approx. 160 g

Display program

CIT 200	Process display with LED display	
CIT 250	Process display with LED display and contacts	
CIT 300	Process display with LED display, contacts and analogue output	
CIT 350	Process display with LED display, bargraph, contacts and analogue output	
CIT 400	Process display with LED display, contacts, analogue output and Ex-approval	
CIT 600	Multichannel process display with graphics-capable LC display	
CIT 650	Multichannel process display with graphics-capable LC display and datalogger	
CIT 700 / 0	CIT 750 Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts	
PA 440	Field display with 4-digit LC display	

For further information please contact our sales department or visit our homepage: http://www.bdsensors.de







B

BD	S	E	N	S		R	S
			pres	sure	mea	surer	nent

	Ordering code LMP 307	
LMP 307		
Pressure in bar	4 5 0 4 5 1	
in mH ₂ O Input [mH ₂ O] [bar]		
1.0 0.10 1.6 0.16	1 0 0 0 1 6 0 0 2 5 0 0	
2.5 0.25 4.0 0.40 6.0 0.60		
10 1.0 16 1.6		
10 1.0 25 2.5 40 4.0		
40 4.0 60 6.0 100 10	6 0 0 1	
160 16 160 16 250 25	1602	
Los Los customer Housing		consult
stainless steel 1.4404 (316L) customer	1 9	consult
Diaphragm stainless steel 1.4435 (316L)		
Customer Output 4 20 mA / 2-wire		consult
0 20 mA / 2-wire 0 20 mA / 3-wire 0 10 V / 3-wire		
intrinsic safety 4 20 mA / 2-wire SIL2 4 20 mA / 2-wire		
SIL 2 with Intrinsic safety 4 20 mA / 2-wire	ES	
Seals	9	consult
FKM EPDM		
DVGW/KTW: EPDM ¹ petrol-version: without (welded version) ^{2,4}	3T 21 1	
Accuracy	9	consult
standard for $p_N \ge 0.4$ bar0.35 % FSOstandard for $p_N < 0.4$ bar0.5 % FSO	3 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
option 1 for $p_N \ge 0.4$ bar0.25 % FSOoption 20.1 % FSO 2		
Electrical connection PVC-cable (grey, Ø 7.4 mm) ³	9	consult
PUR-cable (black, Ø 7.4 mm) ³ FEP-cable (black, Ø 7.4 mm) ³		
TPE-U-cable (blue, Ø 7.4 mm) ³ DVGW/KTW:	4	
TPE-U-cable (blue, Ø 7.4 mm) ^{1,3} customer	9 F S S S S S S S S S S S S S S S S S S	consult
Cable length in m		Contourt
standard: 3 m PVC standard: 5 m PVC	0 0 3 0 0 5 0 1 0 0 1 5	
standard: 10 m PVC standard: 15 m PVC	0 1 0 0 1 5	
standard: 20 m PVC special length PVC	0 2 0 9 9 9	
standard: 3 m PUR	0 0 3	
standard: 5 m PUR standard: 10 m PUR		
standard: 15 m PUR standard: 20 m PUR	0 1 5 0 2 0	
special length PUR	9 9 9	
standard: 5 m FEP standard: 10 m FEP	0 0 5 0 1 0	
special length FEP	9 9 9	
special length TPE-U Special version	9 9 9	
standard prepared for mounting with stainless steel customer	0 0 0 5 0 3 9 9 9	consult
drinking water certification only possible with EPDM seal (con not in combination with SIL shielded cable with integrated ventilation tube for atmospheri petrol-version only in combination with FEP cable	de 3T) in combination with TPE-U cable (code F); not possible with IS version (explosion protection) ic pressure reference	consult consult
Standard lengths 3 / 5 / 10 / 15 / 20 m are available from s	stock, special lengths are manufactured order-related.	01.04.2020

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