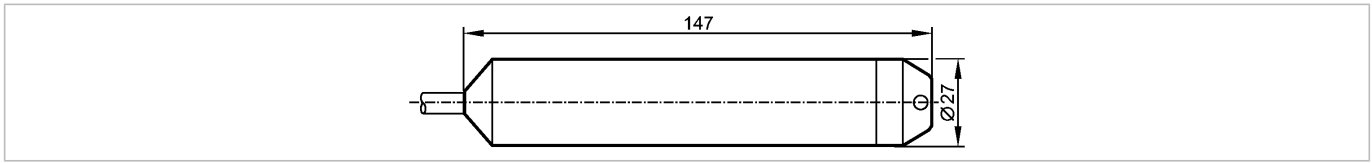


PS317A

SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Drucksensoren



Produktmerkmale

Pegelsonde
Anschlussleitung
ATEX-Zulassung
Gruppe II, Kategorie 1D/1G
Analogausgang
Messbereich: 0...1 bar

Einsatzbereich

Einsatzbereich	Druckart: Relativdruck Flüssige Medien
Druckfestigkeit [bar]	5
Berstdruck min. [bar]	6
Mediumtemperatur [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)

Elektrische Daten

Elektrische Ausführung	Anschluss an eigensichere Speisetrenner (Ex ia)
Betriebsspannung [V]	10...30 DC
Schutzklasse	III
Verpolungsschutz	ja

Ausgänge

Ausgang	Analogausgang
Ausgangsfunktion	4...20 mA analog
Kurzschlusschutz	ja
Analogausgang	4...20 mA
Max. Bürde [Ω]	max. (U _b - 10 V) x 50; 700 (U _b = 24 V)

Mess- / Einstellbereich

Messbereich [bar]	0...1
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Genauigkeit / Abweichungen

Genauigkeit / Abweichungen (in % der Spanne)	
Kennlinienabweichung *)	< 0,25 (BFSL) / 0,5 ****)
Linearität	< 0,2 (BFSL)
Wiederholgenauigkeit **)	< 0,1
Langzeitstabilität ***)	< 0,2
Temperaturkoeffizienten (TK) im Temperaturbereich 0...50° C (in % der Spanne pro 10 K)	
Größter TK des Nullpunkts	< ± 0,2
Größter TK der Spanne	< ± 0,2

Umgebungsbedingungen

Umgebungstemperatur [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)
Lagertemperatur [°C]	-10...60

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Drucksensoren

Schutzart	IP 68
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Zulassungen / Prüfungen

Zulassung	BVS 10 ATEX E 132 X IECEX BVS 10.0085 X
Gerätekenzeichnung	<p>⊕ I M1 Ex ia I Ma</p> <p>⊕ II 1 G Ex ia IIA T4/T5/T6 Ga</p> <p>⊕ II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb</p> <p>⊕ II 2 G Ex ia IIC T4/T5/T6 Gb</p> <p>⊕ II 1D Ex ia IIIC T120°C Da</p>
MTTF [Jahre]	969

Mechanische Daten

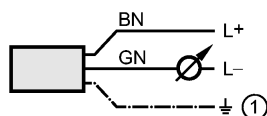
Gehäusewerkstoffe	V4A (1.4571)
Druckzyklen min.	
Gewicht [kg]	1,425

Elektrischer Anschluss

Anschluss	FEP-Kabel / 15 m; Kabeldurchmesser 7,5 mm
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Anschlussbelegung

Adernfarben
 BN braun
 GN grün



1: Schirm (am Gehäuse aufgelegt)

Bemerkungen

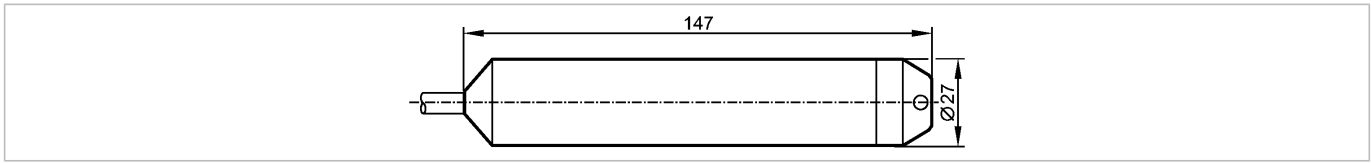
Bemerkungen	<p>*) BFSL = Best Fit Straight Line (KleinstwertEinstellung)</p> <p>***) bei Temperaturschwankungen < 10 K</p> <p>****) in % der Spanne pro Jahr</p> <p>****) incl. Linearitäts-, Nullpunkt-, und Spannenfehler (Grenzpunkteinstellung)</p>
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Verpackungseinheit [Stück]	1
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SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Pressure sensors



Product characteristics

Submersible pressure transmitter
Cable
ATEX approval
Group II, category 1D/1G
Analogue output
Measuring range: 0...1 bar

Application

Application	Type of pressure: relative pressure Liquids
Pressure rating [bar]	5
Bursting pressure min. [bar]	6
Medium temperature [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)

Electrical data

Electrical design	Connection to intrinsically safe supply isolators (Ex ia)
Operating voltage [V]	10...30 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Analogue output
Output function	4...20 mA analogue
Short-circuit protection	yes
Analogue output	4...20 mA
Max. load [Ω]	max. (U _b - 10 V) x 50; 700 (U _b = 24 V)

Measuring / setting range

Measuring range [bar]	0...1
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< 0.25 (BFSL) / 0.5 ****)
Linearity	< 0.2 (BFSL)
Repeatability **)	< 0.1
Long-term stability ***)	< 0.2
Temperature coefficients (TEMPCO) in the temperature range 0...50° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	< ± 0.2
Greatest TEMPCO of the span	< ± 0.2

Environment

Ambient temperature [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)
Storage temperature [°C]	-10...60

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SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Pressure sensors

Protection	IP 68
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Tests / approvals

Approval	BVS 10 ATEX E 132 X IECEX BVS 10.0085 X
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Marking of the unit	<p>⊕ I M1 Ex ia I Ma</p> <p>⊕ II 1 G Ex ia IIA T4/T5/T6 Ga</p> <p>⊕ II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb</p> <p>⊕ II 2 G Ex ia IIC T4/T5/T6 Gb</p> <p>⊕ II 1D Ex ia IIIC T120°C Da</p>
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MTTF [Years]	969
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Mechanical data

Housing materials	stainless steel 316Ti / 1.4571
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Min. pressure cycles	
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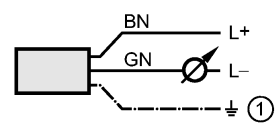
Weight [kg]	1.425
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Electrical connection

Connection	FEP cable / 15 m; cable diameter 7.5 mm
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Wiring

Core colours
 BN brown
 GN green



1: screen (connected to the housing)

Remarks

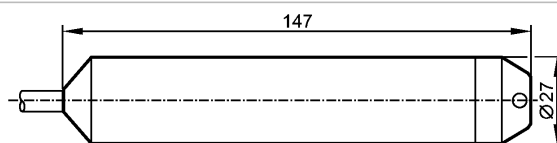
Remarks	<p>*) BFSL = Best Fit Straight Line</p> <p>***) with temperature fluctuations < 10 K</p> <p>****) in % of the span per year</p> <p>*****) incl. linearity, zero and span error (limit value setting)</p>
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Pack quantity [piece]	1
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SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Capteurs de pression



Caractéristiques du produit

Sonde de niveau	
Raccordement par câble	
Homologation ATEX	
Groupe II, catégorie 1D/1G	
Sortie analogique	
Etendue de mesure: 0...1 bar	

Application

Application	Type de pression: pression relative Liquides
Tenue en pression [bar]	5
Pression d'éclatement min. [bar]	6
Température du fluide [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)

Données électriques

Technologie	Raccordement aux barrières d'alimentation en sécurité intrinsèque (Ex ia)
Tension d'alimentation [V]	10...30 DC
Classe de protection	III
Protection contre l'inversion de polarité	oui

Sorties

Sortie	Sortie analogique
Sortie	4...20 mA analogique
Protection courts-circuits	oui
Sortie analogique	4...20 mA
Charge maxi [Ω]	max. (U _b - 10 V) x 50; 700 (U _b = 24 V)

Etendue de mesure / plage de réglage

Etendue de mesure [bar]	0...1
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Exactitude / dérives

Exactitude / dérives (en % du gain)	
Exactitude type *)	< 0,25 (BFSL) / 0,5 ****)
Linéarité	< 0,2 (BFSL)
Répétabilité **)	< 0,1
Stabilité à long terme ***)	< 0,2
Coefficients de température (CT) dans la plage de température 0...50° C (en % du gain par 10 K)	
Meilleur CT du point zéro	< ± 0,2
Meilleur CT du gain	< ± 0,2

Conditions d'utilisation

Température ambiante [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)
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SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Capteurs de pression

Température de stockage [°C]	-10...60
Protection	IP 68

Tests / Homologations

Homologation	BVS 10 ATEX E 132 X CEIEx BVS 10.0085 X
Marquage de l'appareil	<p>Ex I M1 Ex ia I Ma</p> <p>Ex II 1 G Ex ia IIA T4/T5/T6 Ga</p> <p>Ex II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb</p> <p>Ex II 2 G Ex ia IIC T4/T5/T6 Gb</p> <p>Ex II 1D Ex ia IIIC T120°C Da</p>
MTTF [Années]	969

Données mécaniques

Matières boîtier	inox (1.4571 / 316Ti)
Cycles de pression min.	
Poids [kg]	1,425

Raccordement électrique

Raccordement	câble FEP / 15 m; diamètre du câble 7,5 mm
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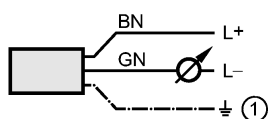
Branchement

Couleurs des fils

conducteurs

BN brun

GN vert



1: blindage (relié au boîtier)

Remarques

Remarques	<p>*) BFSL = Best Fit Straight Line (réglage de la valeur minimale)</p> <p>**) avec des fluctuations de température < 10 K</p> <p>***) en % du gain par an</p> <p>****) tient compte de la déviation de la linéarité, du point zéro et de la pleine échelle (réglages sur points limites)</p>
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Quantité [pièce]	1
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