

	IEC Certification S	LECTROTECHNICAL COMMISSION System for Explosive Atmospheres Is of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEx UL 18.0086	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 2	Issue 1 (2019-10-30) Issue 0 (2018-09-14)
Date of Issue:	2020-01-21		
Applicant:	Dwyer Instruments Inc. 102 Indiana Highway 212 Michigan City, IN 46360 United States of America		
Equipment:	Pressure Transducers, Models IS	S626-**-GH-P*-E*-S1-ATEX-**** , SBLTX-*****_*_*********	***-ATEX-*** , PBLTX-
Optional accessory			
Type of Protection:	Intrinsic safety "ia"		
Marking:	Ex ia IIC T4 Ga		
	Ex ia IIIC T135°C Da		
	*-20°C \leq Tamb \leq +65°C		
	*When nomenclature item 'V' for C ATEX-*** and PBLTX-*****_*_*_*	able Type = 'PU' for Polyether Polyurethane for models *-ATEX-***	SBLTX-*****_*_*****
Approved for issue Certification Body:	on behalf of the IECEx	Katy A. Holdredge	
Position:		Senior Staff Engineer	
Signature: (for printed version)		Kety a. Helibulge	
Date:		2020-01-21	
2. This certificate i	and schedule may only be reproduced s not transferable and remains the pro authenticity of this certificate may be v		le.
Certificate issue	ed by:		
UL LLC 333 Pfingsten Northbrook IL United States o	60062-2096	(<u>ዞ</u>)



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Manufacturer:	Dwyer Instruments Inc. 102 Indiana Highway 212 Michigan City, IN 46360 United States of America					
Additional manufacturing locations:	W.E. Anderson A Division of Dwyer Instruments Inc.Proximity Controls Inc. A Div. of Dwyer Insruments Inc.250 Highgrove, Grandview1431 State Highway 210 East Fergus Falls, MN 56537MO 64030Fergus Falls, MN 56537United States of AmericaUnited States of America					
the IEC Standard list assessed and found t	below and that the manufacturer's quality syst	tive of production, was assessed and tested and found to comply with em, relating to the Ex products covered by this certificate, was rements.This certificate is granted subject to the conditions as set out in nended				
STANDARDS : The equipment and a to comply with the foll		chedule of this certificate and the identified documents, was found				
IEC 60079-0:2011 Edition:6.0	0:2011 Explosive atmospheres - Part 0: General requirements					
IEC 60079-11:2011 Edition:6.0	1 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"					
	This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.					
	TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:					
Test Reports: US/UL/ExTR18.0099/00 US/UL/ExTR18.0099/01 US/UL/ExTR18.0099/02						

Quality Assessment Report:

CA/CSA/QAR09.0006/10



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EQUIPMENT:

Date of issue:

Equipment and systems covered by this Certificate are as follows:

The Models IS626, SBLTX and PBLTX transducers all consist of a similar stainless steel tube assembly that houses the main board and sensor board assembly. The tube assembly is completely encapsulated up to a ground clip within the transducers. The Models IS626, SBLTX and PBLTX are intended to be interfaced with a third party listed intrinsically safe associated apparatus that is suitable for the intended application. The Models PBLTX and SBLTX are submersible transducers that include a breather tube within the provided wiring that is to be terminated within the hazardous area. What differs between the Model IS626, SBLTX, and PBLTX transducers is the overall external construction and the intended end user application of the transducers. See the nomenclature as follows for the available options.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Updated documentation, and alternate construction for Models IS626, SBLTX, and PBLTX.

Issue 2: Revision to nomenclature for the model IS626, model SBLTX, and model PBLTX.

Annex:

Annex to IECEx UL 18.0086 Issue 2.pdf



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TYPE DESIGNATION

Nomenclature:

Model IS626:

<u>IS6</u>	<u>26</u> -	<u>**</u> 	-	<u>GH</u> II	- <u>P</u> II	<u>*</u> -	<u>E*</u> IV	-		<u>51</u> V	-	ATEX VI	<u>×</u> -	**** VII	
Ι.	Sensing r	ange fo	or th	ne devid	ce										
	a.														
represent the sensing configuration for the device:															
		**	** Sensing Range ** Sensing Range –												
				Cont. Cont.											
		06	=	0 – 5 F	PSIG			13	=	0-3	300	PSIG	ì		
		07	=	0 – 15	PSIG			14	=	0 - 5	500	PSIG	ì		
		08	=	0 – 30	PSIG			22	=	0 – 6	600	PSIG	ì		
		09	=	0 – 50	PSIG			24	=	0 - 2	250	PSIG	ì		
		10	=	0 – 10	0 PSIG		:	25	=			PSIG	ì		
		11	=		0 PSIG			27	=	0 - 2	25 F	PSIG			
		12	=	0 - 20	0 PSIG										
 II. Enclosure housing of the device a. GH = General purpose stainless steel housing for the device. III. Process fitting that the device is constructed with a. P1 = 0.25 in. NPT Male b. P2 = 0.25 in. NPT Female c. P3 = 0.25 in. BSPT Male IV. Electrical connection a. E1 = 3 foot factory wiring with strain relief b. E2 = 6 foot factory wiring with strain relief c. E3 = 9 foot factory wiring with strain relief d. E6 = M12 Bendix Connection V. Output configuration of transducer a. S1 = Output configuration of 4-20 mA for the transducer. 															
VII.	 a. ATEX = ATEX/IECEx Compliant Configuration II. Additional options may include any of the following (Optional): a. Blank = No options added b. AT = Aluminum tag included on the wiring harness. To be removed prior to installation of the device. c. NIST = NIST calibration certificate provided with the device. 														



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Model SBLTX:

SBL	TX -	****	- *	- ***	- *	- ****	- ATEX -	***
		<u> </u>	Ī		ΙV	V	VI	VII
Ι.	Senso	r range						
	a.		nere ***** is	one to five	numeric ch	aracters that	represent the fol	lowing
		sensing	range:					
		i.	When item	ʻII' = BLAN	K, item 'I' =	3 to 400 PSI		
		ii.	When item	'II' = M, ite	m 'l' = 2.2 to	o 280 M WC		
II.		ig range u						
	а.	BLANK	= PSI					
	b.	M = Met	ric					
111.	Cable							
	а.			e to three	numeric cł	naracters that	represent the	following
		cable le						
							et (143 Meters)	
	_			V' = ETFE	item 'III' =	1 to 275 Feet	t (84 Meters)	
IV.		length uni						
	.	BLANK						
		M = Met						
V.			ductor jack					
			= Polyether					
	b.		Ethylene Te	etraflouroe	thylene			
VI.	•	uration						
	а.				iant Configu		6 . 1	
VII.				ude either	warranty o	ptions and/or	any one of the	process
		(Optional		14/				
			= Standard					
			Year Warra					
			25 in. NPT N					
					cess Fitting			
			25 in. BSPT		•	~		
	f.	P4 = 0.2	сэ in. върт	remale Pl	ocess Fittin	g		



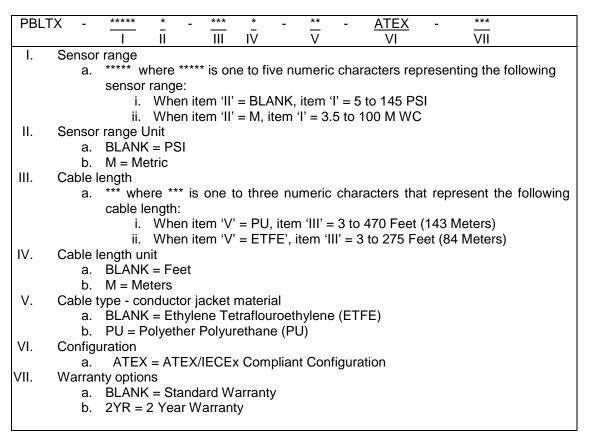
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Model PBLTX:





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PARAMETERS RELATING TO THE SAFETY

Ambient Temperature range:

 $-20^{\circ}C \le Tamb \le +80^{\circ}C$

*-20°C \leq Tamb \leq +65°C

*For models SBLTX-****-*-*-*-ATEX-*** and PBLTX-****-*-ATEX-*** when nomenclature item 'V' for Cable Type = 'PU' for Polyether Polyurethane

Input:

Terminals 1, 4 = 10 - 28 VDC, 4-20 mA

Input entity parameters:

Mod	lel: IS	626-**-GH-P*-E*-S1-ATEX-****
Ui	N	28 VDC

li	≤	93 mA
Pi	≤	651mW
Ci	_	0.0381E

Ci = $0.0381 \,\mu\text{F}$ Li = $19.52 \,\mu\text{H}$

	Mo	dels SBLTX-****-*-*-***-*-ATEX-***, and
		PBLTX-****-*-*-*-*-ATEX-***
Ui	<	28 VDC
li	≤	93 mA
Pi	≤	651mW
Ci	=	0.037 μF + Csbltx cable or Cpbltx cable
Li	=	15.92 μ H + LSBLTX CABLE OF LPBLTX CABLE



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MARKING

Models IS626-**-GH-P*-E1-S1-ATEX-****, IS626-**-GH-P*-E2-S1-ATEX-****, and IS626-**-GH-P*-E3-S1-ATEX-****

-	DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S.A. PRESSURE TRANSDUCER MODEL:
	RANGE: CAUTION: PRESSURE LIMIT 2x RANGE
	OPERATING TEMP: -20 TO 80°C (-4 TO 176°F) SUPPLY: 10-28VDC === RED(+) BLACK (-); OUTPUT: 4-20MA
	CE 0518 <u>(Ex</u>)
	II 1 G Ex ia IIC T4 Ga (-20°C ≤ Tamb ≤ 80°C) II 1 D Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 80°C) DEMKO 18 ATEX 2080
	Ex ia IIC T4 Ga (-20°C ≤ Tamb ≤ 80°C) Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 80°C) IECEX UL 18.0086 WARNING - DO NOT OPEN WHEN ENERGIZED WARNING - READ INSTRUCTION MANUAL DATE CODE:
Model IS626-**-	

DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S.A. Dwyer。 PRESSURE TRANSDUCER _ _ _ _ MODEL: _____ RANGE: CAUTION: PRESSURE LIMIT 2x RANGE OPERATING TEMP: -20 TO 80°C (-4 TO 176°F) SUPPLY: 10-28VDC === PIN# 1(+) PIN# 4 (-); OUTPUT: 4-20MA **CE** 0518 (8 II 1 G Ex ia IIC T4 Ga (-20°C \leq Tamb \leq 80°C) II 1 D Ex ia IIIC T135°C Da (-20°C \leq Tamb \leq 80°C) DEMKO 18 ATEX 2080 Ex ia IIC T4 Ga (-20°C \leq Tamb \leq 80°C) Ex ia IIIC T135°C Da (-20°C \leq Tamb \leq 80°C) IECEx UL 18.0086 WARNING - DO NOT OPEN WHEN ENERGIZED ENTITY PARAMETERS: WARNING - READ INSTRUCTION MANUAL Ui Τi Li 28VDC 93mA 0.0381µF 19.52µB DATE CODE:



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MERCOID DATE CODE: DIV. OF DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S.A. SUBMERSIBLE LEVEL TRANSDUCER MODEL: = = = === = = = = = = = = RANGE: CAUTION: PRESSURE LIMIT 2x RANGE OPERATING TEMP: -20 TO 65°C (-4 TO 149°F) SUPPLY: 10-28VDC == RED(+) BLACK (-); OUTPUT: 4-20MA **C€** 0518 II 1 G Ex ia IIC T4 Ga (-20°C \leq Tamb \leq 65°C) II 1 D Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 65°C) DEMKO 18 ATEX 2080 Ex ia IIC T4 Ga (-20°C ≤ Tamb ≤ 65°C) ENTITY PARAMETERS: (NOT INC. CABLE) Ex ia IIIC T135°C Da $(-20°C \leq Tamb \leq 65°C)$ Ui Ιi Ci Li IECEX UL 18.0086 28VDC 93mA 0.037µF 15.92µH CABLE TYPE = POLYURETHANE CABLE LENGTH = ADD 96pF/FT (315pF/M) TO Ci VALUE FOR TOTAL Ci ADD 346nH/FT (1.135µH/M) TO Li VALUE FOR TOTAL Li Model SBLTX-****-*-*-ETFE-ATEX-*** DATE CODE: MERCOID DIV. OF DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S.A. SUBMERSIBLE LEVEL TRANSDUCER MODEL: = = = = = = = == = = = = = RANGE: CAUTION: PRESSURE LIMIT 2x RANGE OPERATING TEMP: -20 TO 80°C (-4 TO 176°F) SUPPLY: 10-28VDC == RED(+) BLACK (-); OUTPUT: 4-20MA **C€** 0518 II 1 G Ex ia IIC T4 Ga (-20°C ≤ Tamb ≤ 80°C) II 1 D Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 80°C) DEMKO 18 ATEX 2080 Ex ia IIC T4 Ga (-20°C ≤ Tamb ≤ 80°C) ENTITY PARAMETERS: (NOT INC. CABLE) Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 80°C) Ui Ιi Ci Li IECEx UL 18.0086 28VDC 93mA 0.037µF 15.92µH CABLE TYPE = ETFE CABLE LENGTH = ADD 162pF/FT (532pF/M) TO CI VALUE FOR TOTAL CI ADD 340nH/FT (1.116µH/M) TO Li VALUE FOR TOTAL Li



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Model PBLTX-****-*-*-*-PU-ATEX-***

MERCOID DATE CODE: DIV. OF DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S. SUBMERSIBLE LEVEL TRANSDUCER U.S.A. MODEL: = = = = = = = = = = = = RANGE: CAUTION: PRESSURE LIMIT 2x RANGE OPERATING TEMP: -20 TO 65°C (-4 TO 149°F) SUPPLY: 10-28VDC === RED(+) BLACK (-); OUTPUT: 4-20MA **C**€ 0518 II 1 G Ex ia IIC T4 Ga (-20°C \leq Tamb \leq 65°C) II 1 D Ex ia IIIC T135°C Da (-20°C \leq Tamb \leq 65°C) DEMKO 18 ATEX 2080 Ex ia IIC T4 Ga (-20°C \leq Tamb \leq 65°C) ENTITY PARAMETERS: (NOT CABLE Ex ia IIIC T135°C Da (-20°C \leq Tamb \leq 65°C) IIi Τi IECEx UL 18.0086 28VD 93mA 0.037uF 15.92uH CABLE TYPE = POLYURETHANE CABLE LENGTH = ADD 96pF/FT (315pF/M) TO Ci VALUE FOR TOTAL Ci ADD 346nH/FT (1.135µH/M) TO Li VALUE FOR TOTAL Li Model PBLTX-****-*-*---_--ATEX-*** MERCOID DATE CODE: DIV. OF DWYER INSTRUMENTS, INC. MICHIGAN CITY, IN 46360 U.S.A. SUBMERSIBLE LEVEL TRANSDUCER MODEL: = = = = = = = = = = = = RANGE: CAUTION: PRESSURE LIMIT 2x RANGE OPERATING TEMP: -20 TO 80°C (-4 TO 176°F) SUPPLY: 10-28VDC == RED(+) BLACK (-); OUTPUT: 4-20MA E 0518 II 1 G Ex ia IIC T4 Ga $(-20^{\circ}C \leq Tamb \leq 80^{\circ}C)$ II 1 D Ex ia IIIC T135°C Da (-20°C ≤ Tamb ≤ 80°C) DEMKO 18 ATEX 2080 Ex ia IIC T4 Ga $(-20^{\circ}C) \leq \text{Tamb} \leq 80^{\circ}C)$ ENTITY PARAME (NOT CABLE Ex ia IIIC T135°C Da (-20°C \leq Tamb \leq 80°C) Ui Ιi Ci Li IECEx UL 18.0086 28VDC 93mA 0.037µF 15.92µH CABLE TYPE = ETFE CABLE LENGTH = ADD 162pF/FT (532pF/M) TO Ci VALUE FOR TOTAL Ci ADD 340nH/FT (1.116µH/M) TO Li VALUE FOR TOTAL Li