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## Schedule EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 18 ATEX 2080 Rev. 2

Description of Product

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 certified intrinsically safe associated apparatus that provides outputs 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.

Nomenclature

**Model IS626:**

IS626	-	<u>**</u>	-	<u>GH</u>	-	<u>P*</u>	-	<u>E*</u>	-	<u>S1</u>	-	<u>ATEX</u>	-	<u>****</u>	
		I		II		III		IV		V		VI		VII	

I. Sensing range for the device

a. \*\* where \*\* is one of the numeric characters defined within the table below that represent the sensing configuration for the device:

**	=	Sensing Range	** - Cont.	=	Sensing Range - Cont.
06	=	0 – 5 PSIG	13	=	0 – 300 PSIG
07	=	0 – 15 PSIG	14	=	0 – 500 PSIG
08	=	0 – 30 PSIG	22	=	0 – 600 PSIG
09	=	0 – 50 PSIG	24	=	0 – 250 PSIG
10	=	0 – 100 PSIG	25	=	0 – 400 PSIG
11	=	0 – 150 PSIG	27	=	0 – 25 PSIG
12	=	0 – 200 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.

VI. Configuration

a. ATEX = ATEX/IECEx Compliant Configuration

VII. 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:**

SBLTX	- I	- II	- III	- IV	- V	- ATEX VI	- VII
<p>I. Sensor range</p> <p style="margin-left: 20px;">a. **** where **** is one to five numeric characters that represent the following sensing range:</p> <p style="margin-left: 40px;">i. When item 'II' = BLANK, item 'I' = 3 to 400 PSI</p> <p style="margin-left: 40px;">ii. When item 'II' = M, item 'I' = 2.2 to 280 M WC</p> <p>II. Sensing range unit</p> <p style="margin-left: 20px;">a. BLANK = PSI</p> <p style="margin-left: 20px;">b. M = Metric</p> <p>III. Cable length</p> <p style="margin-left: 20px;">a. *** where *** is one to three numeric characters that represent the following cable length:</p> <p style="margin-left: 40px;">i. When item 'V' = BLANK, item 'III' = 1 to 470 Feet (143 Meters)</p> <p style="margin-left: 40px;">ii. When item 'V' = ETFE, item 'III' = 1 to 275 Feet (84 Meters)</p> <p>IV. Cable length unit</p> <p style="margin-left: 20px;">a. BLANK = Feet</p> <p style="margin-left: 20px;">b. M = Meters</p> <p>V. Cable type - conductor jacket material</p> <p style="margin-left: 20px;">a. BLANK = Polyether Polyurethane</p> <p style="margin-left: 20px;">b. ETFE = Ethylene Tetrafluoroethylene</p> <p>VI. Configuration</p> <p style="margin-left: 20px;">a. ATEX = ATEX/IECEX Compliant Configuration</p> <p>VII. Additional options may include either warranty options and/or any one of the process fittings (Optional)</p> <p style="margin-left: 20px;">a. BLANK = Standard Warranty</p> <p style="margin-left: 20px;">b. 2YR = 2 Year Warranty</p> <p style="margin-left: 20px;">c. P1 = 0.25 in. NPT Male Process Fitting</p> <p style="margin-left: 20px;">d. P2 = 0.25 in. NPT Female Process Fitting</p> <p style="margin-left: 20px;">e. P3 = 0.25 in. BSPT Male Process Fitting</p> <p style="margin-left: 20px;">f. P4 = 0.25 in. BSPT Female Process Fitting</p>							

**Model PBLTX:**

PBLTX	- I	- II	- III	- IV	- V	- ATEX VI	- VII
<p>I. Sensor range</p> <p style="margin-left: 20px;">a. **** where **** is one to five numeric characters representing the following sensor range:</p> <p style="margin-left: 40px;">i. When item 'II' = BLANK, item 'I' = 5 to 145 PSI</p> <p style="margin-left: 40px;">ii. When item 'II' = M, item 'I' = 3.5 to 100 M WC</p> <p>II. Sensor range Unit</p> <p style="margin-left: 20px;">a. BLANK = PSI</p> <p style="margin-left: 20px;">b. M = Metric</p> <p>III. Cable length</p> <p style="margin-left: 20px;">a. *** where *** is one to three numeric characters that represent the following cable length:</p> <p style="margin-left: 40px;">i. When item 'V' = PU, item 'III' = 3 to 470 Feet (143 Meters)</p> <p style="margin-left: 40px;">ii. When item 'V' = ETFE, item 'III' = 3 to 275 Feet (84 Meters)</p> <p>IV. Cable length unit</p> <p style="margin-left: 20px;">a. BLANK = Feet</p> <p style="margin-left: 20px;">b. M = Meters</p> <p>V. Cable type - conductor jacket material</p> <p style="margin-left: 20px;">a. BLANK = Ethylene Tetrafluoroethylene (ETFE)</p> <p style="margin-left: 20px;">b. PU = Polyether Polyurethane (PU)</p> <p>VI. Configuration</p> <p style="margin-left: 20px;">a. ATEX = ATEX/IECEX Compliant Configuration</p> <p>VII. Warranty options</p> <p style="margin-left: 20px;">a. BLANK = Standard Warranty</p> <p style="margin-left: 20px;">b. 2YR = 2 Year Warranty</p>							

Temperature range

The ambient temperature range is  $-20^{\circ}\text{C} \leq T_{amb} \leq +80^{\circ}\text{C}$  or  $-20^{\circ}\text{C} \leq T_{amb} \leq +65^{\circ}\text{C}$  for models SBLTX-\*\*\*\*-\*-\*\*\*-\*\*\*\*\*-ATEX-\*\*\* and PBLTX-\*\*\*\*-\*-\*\*\*-\*\*\*-ATEX-\*\*\* when nomenclature item 'V' for Cable Type = 'PU' for Polyether Polyurethane

Electrical data

Input:

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

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### Input Entity Parameters:

Model: IS626-**-GH-P*-E*-S1-ATEX-****	
U <sub>i</sub>	≤ 28 VDC
I <sub>i</sub>	≤ 93 mA
P <sub>i</sub>	≤ 651mW
C <sub>i</sub>	= 0.0381 μF
L <sub>i</sub>	= 19.52 μH

Models SBLTX-*****-****-ATEX-***, and PBLTX-*****-****-ATEX-***	
U <sub>i</sub>	≤ 28 VDC
I <sub>i</sub>	≤ 93 mA
P <sub>i</sub>	≤ 651mW
C <sub>i</sub>	= 0.037 μF + C <sub>SBLTXCABLE</sub> OR C <sub>PBLTXCABLE</sub>
L <sub>i</sub>	= 15.92 μH + L <sub>SBLTXCABLE</sub> OR L <sub>PBLTXCABLE</sub>

### Routine tests

N/A

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### Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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### Specific conditions of use:

None

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### Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

### Additional information



The trademarks **Dwyer.** or **Mercold** will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.