

Intrinsically safe Installation

Class I, Div.1, Groups A, B, C and D; Class II, Div.1, Groups E, F and G ; Class III, Div 1;
 AEx ia IIC T4 ... T6
 Enclosure Type 4X and IP67

The transmitter series are approved for Class I, Zone 0, applications. If connecting AEx [ib] associated Apparatus or AEx ib I.S. Apparatus to the transmitter series the I.S. circuit is only suitable for Class I, Zone 1, or Class I, Zone 2, and is not suitable for Class I, Zone 0 or Class I, Division 1, Hazardous (Classified) Locations.

Supply and signal circuit (terminals signal +,-) :

$V_{max} / U_i = 30 \text{ V}$ $C_i = 10\text{nF}$
 $I_{max} / I_i = 130 \text{ mA}$ $L_i = 0.5\text{mH}$
 $P_{max} / P_i = 0.8 \text{ W}$
 for T4 with $T_a = (-40...+85) ^\circ\text{C}$
 for T5 with $T_a = (-40...+71) ^\circ\text{C}$
 for T6 with $T_a = (-40...+56) ^\circ\text{C}$

Indicator Terminals (JP1):

$V_{oc}/U_o = 6.2\text{V}$ $C_o = 1.4\mu\text{F}$
 $I_{sc}/I_o = 65.2\text{mA}$ $L_o = 5 \text{ mH}$
 $P_o = 101\text{mW}$

Hazardous locations

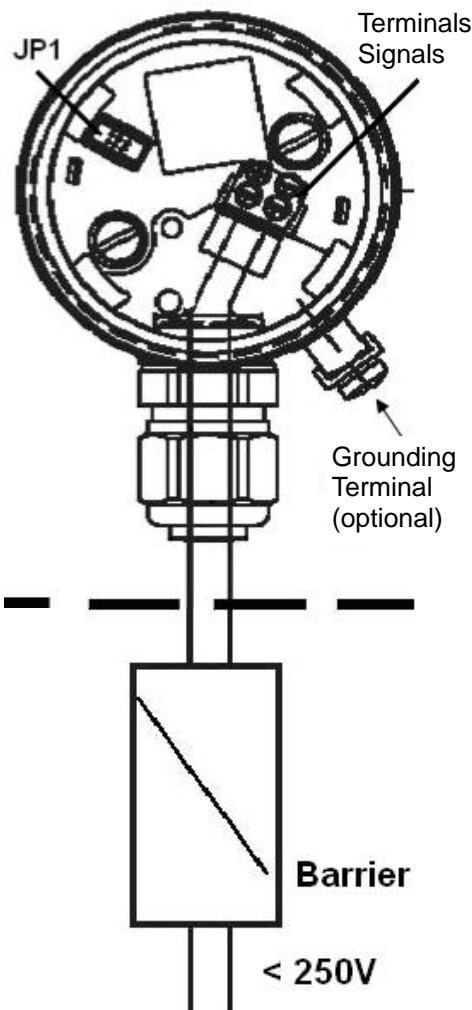
Non-hazardous locations

Associated apparatus

1. Barriers must be FM certified and must be installed in accordance with manufactures instructions.
2. Barrier parameters must meet the following requirements:

$U_o \leq U_i \text{ or } V_{max}$
 $I_o \leq I_i \text{ or } I_{max}$
 $P_o \leq P_i$
 $C_o / C_a \geq C_i + C_{cable}$
 $L_o / L_a \geq L_i + L_{cable}$

3. Maximum non-hazardous area voltage must not exceed 250 V.
4. Install in accordance with the ANSI / ISA RP12.06.01. Do not alter without FM authorization.
5. WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
6. The application for the FM approved model 261GR with Sensor Span Limit order code "V" is restricted to a maximum operating pressure of 400 bar.



ABB

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**FM
Control- Drawing**

**INTRINSICALLY SAFE
INSTALLATION**

Pressure Transmitter
2600T Series Model 261

ABB Automation Products
GmbH

Date:
11.07.2014

Part No.:
A 06 M 503 V

Sheet
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Rev. 2

Nonincendive Installation

Class I , Div. 2, Groups A, B, C and D
Suitable for Class II and III, Div.2, Groups E, F and G
Enclosure Type 4X and IP67

Nonincendive Field Wiring Parameters

$V_{max} = 30V$ $C_i = 10nF$
 $I_{max} = 130mA$ $L_i = 0.5mH$
 $P_{max} = 0.8W$

Division 2 installation (Current Controlled Circuit)

Notes:

- 1) The nonincendive field wiring circuit concept allows interconnection of nonincendive field wiring apparatus with associated nonincendive field wiring apparatus, using any of the wiring methods permitted for unclassified location.
- 2) $V_{max} \geq V_{oc}$ or V_t ; $C_a \geq C_i + C_{cable}$; $L_a \geq L_i + L_{cable}$
- 3) Installation shall be in accordance with the NEC.

Functional Ratings

- 1) These ratings do not supersede Hazardous Location Value:
Normal current = 4...20mA
Normal voltage = 11...42V

HAZARDOUS (CLASSIFIED) LOCATION

UNCLASSIFIED LOCATION

FM APPROVED ASSOCIATED
N.I. FIELD WIRING APPARATUS

Parameters:

V_t or V_{oc}
 I_t or I_{sc}
 C_a
 L_a

Note: The application for the FM approved model 261GR with Sensor Span
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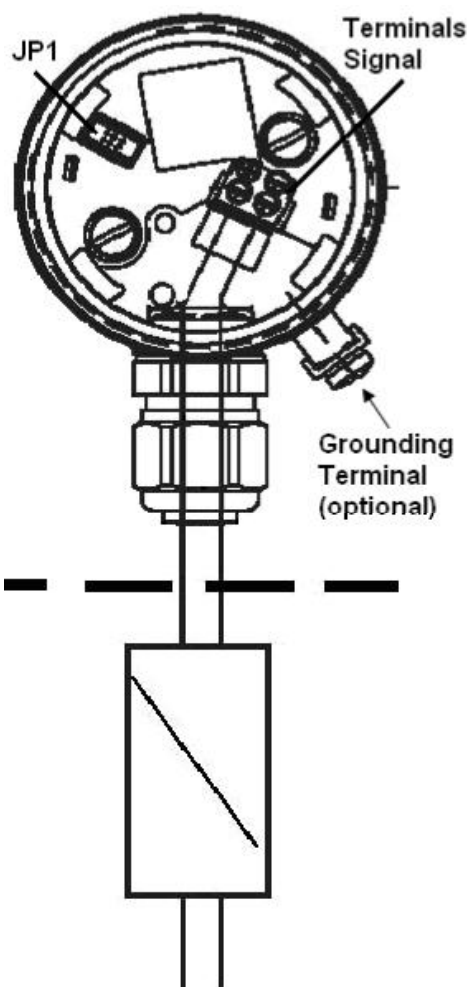


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		NON - INCENDIVE INSTALLATION	Date: 11.07.2014		
		Pressure Transmitter 2600T Series Model 261	Part No.: A 06 M 503 V	Sheet 2 of 2	Rev. 2