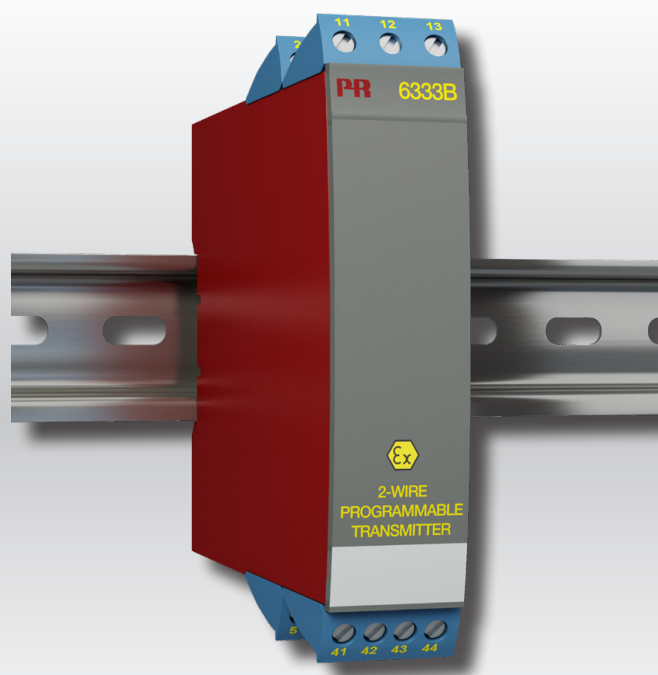


PERFORMANCE  
MADE  
SMARTER

产品手册

6333

二线制可编程变送器



温度 | 安全栅 | 通讯接口 | 多功能 | 隔离器 | 数显表

No. 6333V105-CN  
序列号 : 151787180-212340107

**PR**  
electronics

# 6 大特色产品

## 满足您的一切需求

### 单品出色·组合无敌

凭借创新型专利技术·信号调节更加简单·智能·产品组合由六大产品类组成·具备多种模拟量和数字量模块·涵盖上千种工业自动化应用·所有产品都符合甚至高于行业的最高标准·这可确保产品即便在最恶劣的环境条件下仍能可靠运行·5 年产品保修期·让您使用更安心·



Temperature

温度变送器和温度传感器系列产品·提供从温度测量点到系统控制一站式信号解决方案·从而在最大程度上保证信号的完整性·仅需一套点对点解决方案·您就可以在任何环境中将工业过程中的温度信号转换为模拟量信号·总线信号或数字通讯信号·该方案具备响应时间短·自动校准·传感器故障检测·低漂移和卓越 EMC 性能等诸多优点·



I.S. Interface

我们采用最严格的安全标准来检验产品·以期提供最安全的信号·秉承创新精神·我们已经在 SIL 2 全面评估本质安全型接口方面取得了开创性成就·其既高效又经济·效果卓著·成效斐然·模拟量和数字量本质安全栅种类齐全·同时提供多种输入输出·这使得 PR 标准成为一项易于实施的现场检验标准·在大型项目安装过程中·新背板方案大大简化安装和布线·且能与标准 DCS 系统无缝集成·



Communication

我们提供经济实惠·使用方便·面向未来的通讯接口·以便您能够访问所安装的 PR 产品·所有接口均可拆卸·并带有屏幕和按钮·可以显示过程值/诊断值和对参数进行配置·产品特定功能包括通过 Modbus 和蓝牙进行通讯·以及使用我们的 PR 过程主管 (PPS) 应用程序进行远程访问·适用于 iOS 和 Android 等终端·



Multifunction

单品为多功能系列产品·可涵盖大量现场应用·可轻而易举按照您的现场标准进行配置·此种单品可适用多种应用方式·既节省安装和培训时间·又大大简化库存备件管理·该设备专为长期信号精度高·功耗低·抗电噪声优异·编程简单而设计·



Isolation

基于微处理器技术研发的 6 mm 隔离器·小巧精致·响应迅速·品质一流·以极低的总拥有成本为专用应用提供卓越性能和抗电磁干扰·可水平或垂直安装·装置间无需间隙·



Display

数显表系列以其灵活性和稳定性著称·该设备系列几乎满足过程信号读数显示的所有需求·并具有通用的输入和供电能力·无论哪种行业·无论环境条件何其苛刻·该设备均能实时测量过程值并提供用户友好型界面和值得信赖的继电器信号·

# 二线制可编程变送器 6333

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# 二线制可编程变送器 6333

- RTD 或 Ohm 信号输入
- 高测量精度
- 3-线输入连接
- 可设定传感器故障状态
- 单/双通道版本

## 应用

- Pt100...Pt1000 或 Ni100...Ni1000 传感器线性化温度测量。
- 转换线性电阻阻值变化为标准模拟量电流信号·例如: 阀信号·或欧姆输出液位计。

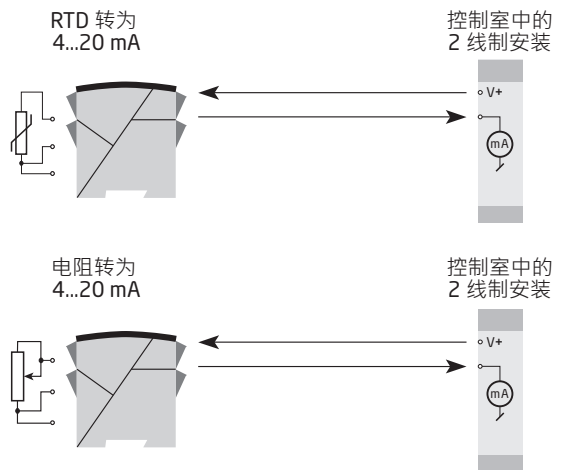
## 技术特点

- 参数设定简单方便。
- 3-线 RTD 和电阻输入电缆自动补偿。
- 输出信号限值可设定

## 安装调试

- 标准垂直或水平 DIN 导轨安装。选用双通道版本时·每米 DIN 导轨可以实现多达84个通道。
- 6333A 可以安装于 zone 2 和 zone 22 / Class I、Division 2、Groups A、B、C、D 区域。
- 6333B 可以安装于 zone 0, 1, 2 和 zone 20, 21, 22 以及 M1 / Class I, Division 1, Groups A, B, C, D 区域。

## 应用



订购

型号	版本	电气隔离	通道
6333	Zone 2 · 22 / Div. 2 : A	无 : 1	单通道 : A
	Zone 0 · 1 · 2 · 20 · 21 · 22 · M1 / DIV.1 · DIV.2 : B		双通道 : B

电气规格

环境条件:

规格温度范围	-40°C 至 +85°C
存储温度	-40°C 至 +85°C
标定温度	20...28°C
湿度	< 95% RH (无冷凝)
防护等级	IP20

机械规格:

结构尺寸 (高x宽x深)	109 x 23.5 x 104 mm
重量 (单/双通道)	145 / 185 g
DIN 导轨类型	DIN EN/IEC 60715 - 35 mm
导线规格	0.13...2.08 mm <sup>2</sup> / AWG 26...14 绞线
螺丝端子扭矩	0.5 Nm

常用规格:

电源电压 · DC	
6333A	8...35 VDC
6333B	8...30 VDC
最大需用功率 · 单/双通道 · 6333A	0.8 W / 1.6 W
最大需用功率 · 单/双通道 · 6333B	0.7 W / 1.4 W
内部功率耗散 · 6333A	0.19...0.8 W
内部功率耗散 · 6333B	0.19...0.7 W
电压降	8 VDC
预热时间	5 分钟
通信接口	Loop Link
信噪比	最低 60 dB
响应时间 (可设定)	0.33...60 s
信号动态范围 · 输入	19 位
信号动态范围 · 输出	16 位
电源电压变化的影响	< 0.005% 所设量程 / VDC
精度 · 一般值和基本值中较大的一个:	

一般值		
输入类型	绝对精度	温度系数
所有	≤ ±0.1% 所设量程	≤ ±0.01% 所设量程/°C

基本值		
输入类型	基本精度	温度系数
RTD	≤ ±0.3°C	≤ ±0.01°C/°C
线性电阻	≤ ±0.2 Ω	≤ ±20 mW / °C

EMC – 抗扰性影响	< ±0.5% 所设量程
-------------	--------------

**电气规格·输入:**

最大偏移量 . . . . . 所设量程高值的 50%

**RTD 和线性电阻输入:**

RTD 类型	最小值	最大值	最小量程	标准
Pt100	-200°C	+850°C	25°C	IEC 60751
Ni100	-60°C	+250°C	25°C	DIN 43760
线性电阻	0 Ω	10000 Ω	30 Ω	-----

单根导线电缆电阻 (最大) . . . . . 10 Ω  
 传感器电流 . . . . . > 0.2 mA, < 0.4 mA  
 传感器电缆电阻的影响 (3 线) . . . . . < 0.002 Ω / Ω  
 传感器故障检测 . . . . . 是

**输出:****电流输出:**

信号范围 . . . . . 4..20 mA  
 最小信号范围 . . . . . 16 mA  
 更新时间 . . . . . 135 ms  
 负载电阻 . . . . .  $\leq (V_{\text{电源}} - 8) / 0.023 [\Omega]$   
 负载稳定性 . . . . . <  $\pm 0.01\%$  所设量程 / 100 Ω

**传感器故障检测:**

可设定 . . . . . 3.5..23 mA  
 NAMUR NE43 上限 . . . . . 23 mA  
 NAMUR NE43 下限 . . . . . 3.5 mA

所设量程 = 当前设定的量程范围

**遵守主管机关要求:**

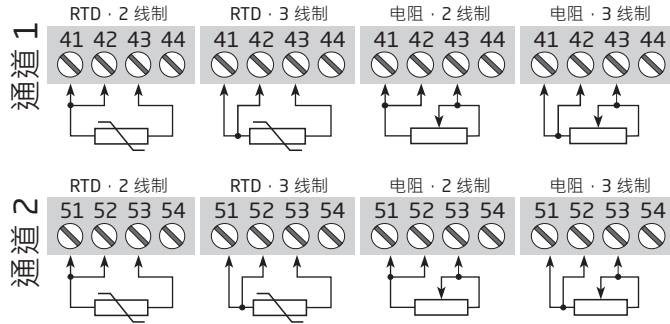
EMC . . . . . 2014/30/EU  
 ATEX . . . . . 2014/34/EU  
 RoHS . . . . . 2011/65/EU  
 EAC . . . . . TR-CU 020/2011  
 EAC Ex . . . . . TR-CU 012/2011

**本质安全/防爆认证:**

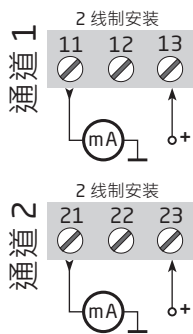
ATEX . . . . . KEMA 09ATEX0147 X  
 IECEx . . . . . IECEx DEK 14.0049X  
 FM . . . . . FM17US0013X  
 CSA . . . . . 1125003  
 EAC Ex . . . . . RU C-DK.HA65.B.00355/19

# 接线方式

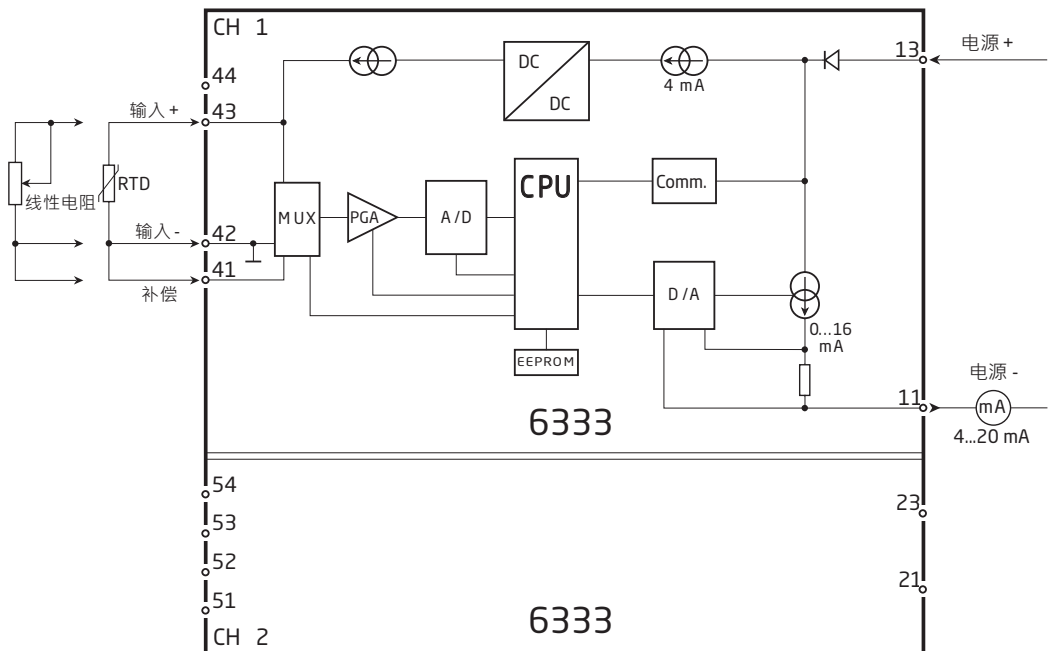
输入：



输出：

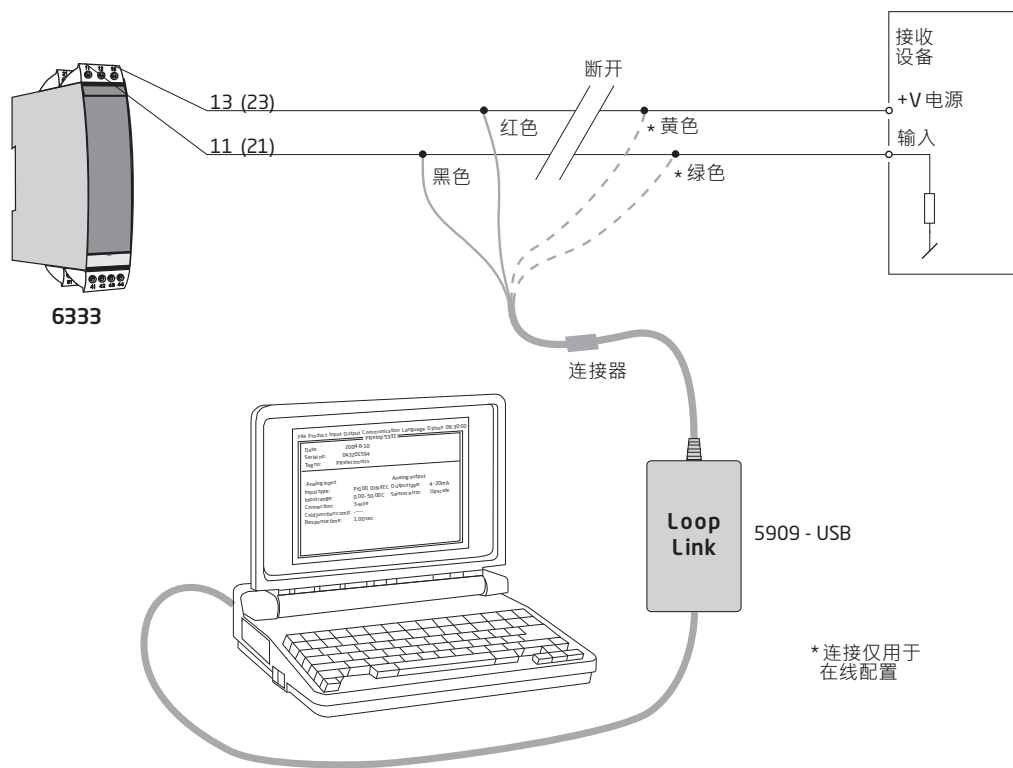


# 方框图



## 设置参数

- Loop Link 是 6333 配置所需的通信接口。
- 有关配置，请参考下图和 PReset 中的帮助功能。
- 与未安装的设备进行通信时，可在安全区域拆卸连接器 11、12、13 (通道 1) 和 21、22、23 (通道 2)，以便将通信接口端子连接至针脚。
- Loop link 不允许与安装在危险 (Ex) 区域中的装置进行通信。





## ATEX 安装图



为安全安装 6333A 和 6343A，必须遵守以下规定。该模块仅由熟悉适用于该地区国家和国际法律、指令和标准的合格专业人员安装。  
设备制造年份由序列号的前两位数字指示。

ATEX 认证      KEMA 09ATEX 0147X

标志



II 3 G Ex nA [ic] IIC T6..T4 Gc  
II 3 G Ex ic IIC T6..T4 Gc  
II 3 D Ex ic IIIC Dc

标准      EN 60079-0: 2012, EN 60079-11: 2012, EN 60079-15: 2010

T4: -40°C 至 85 °C

T6: -40°C 至 60 °C

**端子: 41,42,43 /  
51,52,53**

Ex nA [ic]

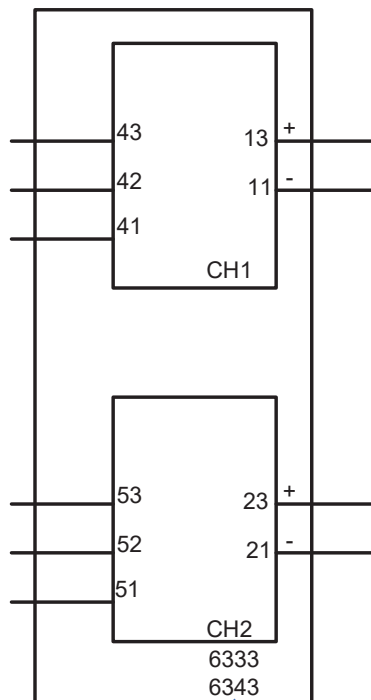
U<sub>o</sub>: 5 VDC

I<sub>o</sub>: 4 mA

P<sub>o</sub>: 20 mW

L<sub>o</sub>: 900 mH

C<sub>o</sub>: 1000 μF



危险区 Zone 2

**端子:  
11-13 / 21-23**

Ex nA

U<sub>max</sub> ≤ 35 VDC

Ex ic

U<sub>i</sub> = 35 VDC

L<sub>i</sub> = 10 μH

C<sub>i</sub> = 6.2 nF

一般安装说明

为避免安装和维护期间的引燃风险，需考虑采取针对静电放电 (ESD) 的适当安全措施。

对于安装在潜在爆炸性气体环境中，必须遵循以下说明：

若变送器作为保护类型为“Ex nA”部署时，则应安装在外壳内，该外壳需具备符合 IEC-EN 60079-15 标准的 Ex nA 认证或“Ex e”认证，且适用于相关应用并正确安装。

电缆入口装置和堵封件应满足相同的要求

对于安装在潜在爆炸性粉尘环境中，必须遵循以下说明：

若变送器连接本质安全信号“ic”，并且作为本质安全信号“ic”的接口界面（例如无源设备），则变送器应安装于金属外壳内，该外壳能根据 EN/IEC 60529 提供至少为 IP6X 的防护等级，且适用于相关应用并正确安装。电缆入口装置和堵封件应满足相同的要求。粉尘层最大厚度为 5 mm 时，外壳表面温度等于环境温度加 +20K。

## ATEX 安装图



为安全安装 6333B 和 6343B，必须遵守以下规定。该模块仅由熟悉适用于该地区国家和国际法律、指令和标准的合格专业人员安装。  
设备制造年份由序列号的前两位数字指示。

ATEX 认证      KEMA 09ATEX 0147 X

标记牌       II 1 G Ex ia IIC T6..T4 Ga  
II 1 D Ex ia IIIC Da  
I M 1 Ex ia I Ma

标准      EN 60079-0: 2012, EN 60079-11: 2012, EN 60079-26: 2007

危险区

Zone 0, 1, 2, 20, 21, 22

T4:  $-40 \leq Ta \leq 85^\circ\text{C}$

T5:  $-40 \leq Ta \leq 60^\circ\text{C}$

T6:  $-40 \leq Ta \leq 40^\circ\text{C}$

端子: **41,42,43**

Uo: 30 VDC

Io: 8 mA

Po: 60 mW

Lo: 35 mH

Co: 60.8 nF

端子: **51,52,53**

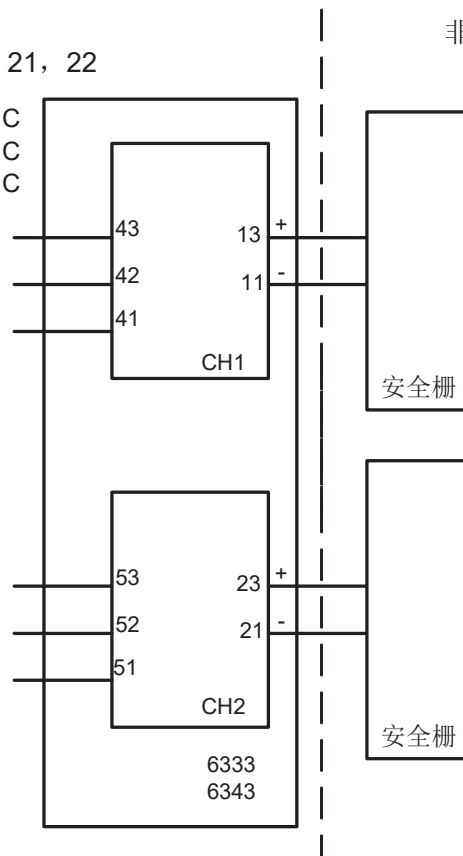
Uo: 30 VDC

Io: 8 mA

Po: 60 mW

Lo: 35 mH

Co: 60.8 nF



端子:

**11, 13 和**

**21, 23**

Ui: 30 VDC

Ii: 120 mA

Pi: 0.84 W

Li: 10  $\mu\text{H}$

Ci: 6.2nF

一般安装说明

为避免安装和维护期间的引燃风险，需考虑采取针对静电放电 (ESD) 的适当安全措施。

对于安装在潜在爆炸性气体环境中，必须遵循以下说明：

为避免由于静电放电 (ESD) 造成的引燃风险，应将变送器安装于外壳内，该外壳能根据 EN/IEC 60529 提供至少为 IP20 的防护等级。

环境温度范围：

T4:  $-40 \leq T_a \leq 85^\circ\text{C}$

T5:  $-40 \leq T_a \leq 60^\circ\text{C}$

T6:  $-40 \leq T_a \leq 40^\circ\text{C}$

对于安装在潜在爆炸性粉尘环境中，必须遵循以下说明：

变送器应安装在金属外壳内，该外壳能根据 EN/IEC 60529 提供至少为 IP6X 的防护等级，且适用于相关应用并正确安装。应使用适用于相关应用和正确安装的电缆封口和堵封件。粉尘层最大厚度为 5 mm 时，外壳表面温度等于环境温度加 +20K。

环境温度范围：

T4:  $-40 \leq T_a \leq 85^\circ\text{C}$

对于安装在矿井中的潜在爆炸性环境中，必须遵循以下说明：

变送器应安装于外壳内，该外壳能根据 EN/IEC 60529 提供至少为 IP6X 的防护等级。应使用适用于相关应用和正确安装的电缆封口和堵封件。

环境温度范围：

T4:  $-40 \leq T_a \leq 85^\circ\text{C}$

## IECEX Installation drawing

For safe installation of 6333A and 6343A the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.  
Year of manufacture can be taken from the first two digits in the serial number.

IECEX Certificate      IECEx DEK 14.0049X

Marking  
Ex nA [ic] IIC T6..T4 Gc  
Ex ic IIC T6..T4 Gc  
Ex ic IIIC Dc

Standards              IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010

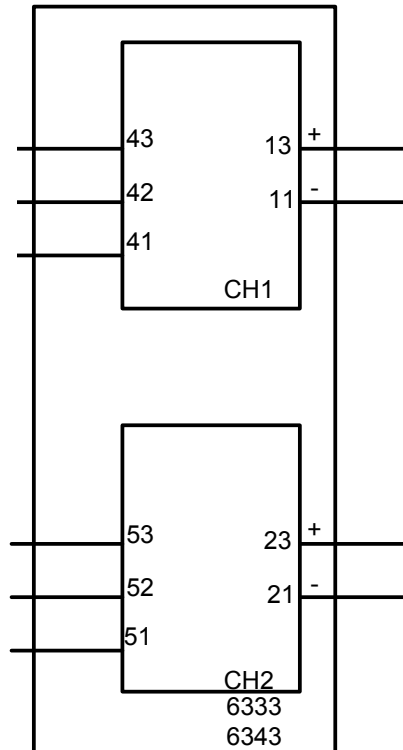
T4: -40°C to 85 °C  
T6: -40°C to 60 °C

Hazardous Area Zone 2

**Terminal:  
41,42,43 /  
51,52,53**

Ex nA [ic]

U<sub>o</sub>: 5 VDC  
I<sub>o</sub>: 4 mA  
P<sub>o</sub>: 20 mW  
L<sub>o</sub>: 900 mH  
C<sub>o</sub>: 1000 µF



**Terminal:  
11-13 / 21-23**

Ex nA  
U<sub>max</sub> ≤ 35 VDC

Ex ic  
U<sub>i</sub> = 35 VDC  
L<sub>i</sub> = 10 µH  
C<sub>i</sub> = 6.2 nF

General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

For installation in a potentially explosive gas atmosphere, the following instructions apply:

If the transmitter is applied in type of protection "Ex nA", it shall be installed in an enclosure that is Ex nA certified according to IEC-EN 60079-15, or "Ex e" certified and suitable for the application and correctly installed.

Cable entry devices and blanking elements shall fulfill the same requirements

For installation in a potentially explosive dust atmosphere, the following instructions apply:

If the transmitter is supplied with an intrinsically safe signal "ic" and interfaces an intrinsically safe signal "ic" (e.g. a passive device), the transmitter shall be mounted in a metal enclosure that provides a degree of protection of at least IP6X according to EN/IEC 60529, and that is suitable for the application. Cable entry devices and blanking elements shall fulfill the same requirements. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

## IECEX Installation drawing

For safe installation of 6333B and 6343B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

Year of manufacture can be taken from the first two digits in the serial number.

IECEX Certificate	IECEX DEK 14.0049X
Marking	Ex ia IIC T6..T4 Ga Ex ia IIIC Da Ex ia I Ma
Standards:	IEC60079-11:2011, IEC60079-0: 2011, IEC60079-26:2006

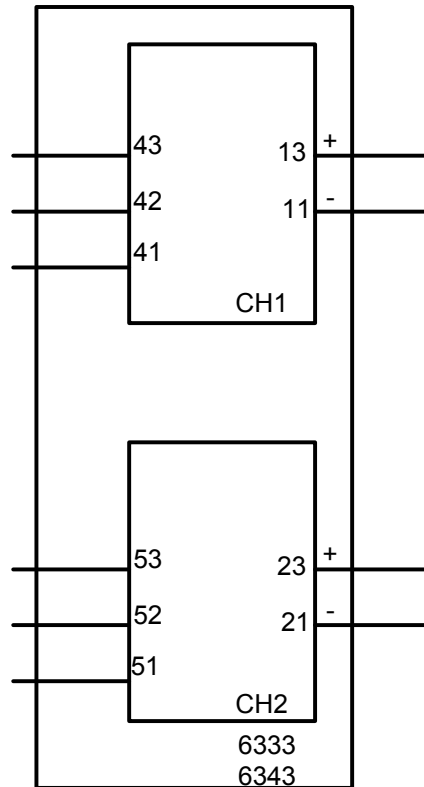
Hazardous area  
Zone 0, 1, 2, 20, 21, 22

Non Hazardous Area

T4:  $-40 \leq T_a \leq 85^\circ\text{C}$   
T5:  $-40 \leq T_a \leq 60^\circ\text{C}$   
T6:  $-40 \leq T_a \leq 40^\circ\text{C}$

**Terminal:  
41,42,43**  
Uo: 30 VDC  
Io: 8 mA  
Po: 60 mW  
Lo: 35 mH  
Co: 60.8 nF

**Terminal:  
51,52,53**  
Uo: 30 VDC  
Io: 8 mA  
Po: 60 mW  
Lo: 35 mH  
Co: 60.8 nF



**Terminal:  
11,13 and  
21,23**  
Ui: 30 VDC  
Ii: 120 mA  
Pi: 0.84 W  
Li: 10  $\mu\text{H}$   
Ci: 6.2 nF

General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

For installation in a potentially explosive gas atmosphere the following instructions apply:

To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.

Ambient temperature range:

T4:  $-40 \leq Ta \leq 85^{\circ}\text{C}$

T5:  $-40 \leq Ta \leq 60^{\circ}\text{C}$

T6:  $-40 \leq Ta \leq 40^{\circ}\text{C}$

For installation in a potentially explosive dust atmosphere, the following instructions apply:

The transmitter shall be mounted in a metal enclosure or equivalent that is providing a degree of protection of at least IP6X according to EN/IEC 60529 that is suitable for the application and correctly installed. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

Ambient temperature range:

T4:  $-40 \leq Ta \leq 85^{\circ}\text{C}$

For installation in a potentially explosive atmosphere in mines, the following instructions apply:

The transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X according to EN/IEC 60529. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

Ambient temperature range:

T4:  $-40 \leq Ta \leq 85^{\circ}\text{C}$



For safe installation of the single channel 6333A1A or the two channel 6333A1B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

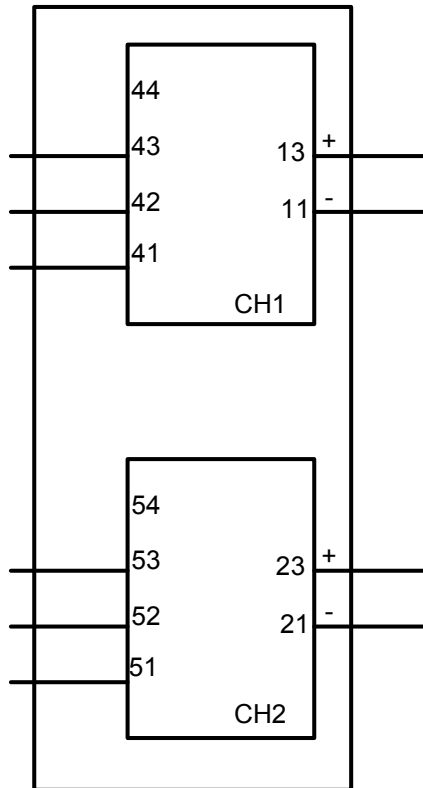
**Marking**

Class I, Division 2, Group A,B,C,D T4..T6  
 Class I Zone 2 Ex/AEx nA[jc] IIC T4..T6  
 Class I Zone 2 Ex/AEx nA IIC T4..T6  
 NIFW Class I Division 2, Group A,B,C,D

T4: -40°C to 85 °C  
 T6: -40°C to 60 °C

**Hazardous Area**  
 CL I, Div 2, GP ABCD  
 CL I, Zone 2, IIC

**Terminal:  
 41,42,43,44**  
 Uo: 5 VDC  
 Io: 4 mA  
 Po: 20 mW  
 Lo: 900 mH  
 Co: 1000µF



**Terminal:  
 11-13**  
 Functional Ratings:  
 U nominal ≤ 35 VDC;  
 I nominal ≤ 3.5 - 23 mA

**Terminal:  
 51,52,53,54**  
 Uo: 5 VDC  
 Io: 4 mA  
 Po: 20 mW  
 Lo: 900 mH  
 Co: 1000µF

**Terminal:  
 21-23**  
 Functional Ratings:  
 U nominal ≤ 35 VDC;  
 I nominal ≤ 3.5 - 23 mA

**NI Installation instructions**

The transmitter must be installed in an enclosure providing a degree of protection of at least IP54 according to IEC60529 that is suitable for the application and is correctly installed. Cable entry devices and blanking elements shall fulfill the same requirements.

If the enclosure is made of non-metallic materials or of painted metal, electrostatic charging shall be avoided.

Use supply wires with a rating of at least 5 K above the ambient temperature.

Supply from a Class 2 Power Supply with Transient protection or equivalent.

WARNING: Substitution of components may impair suitability for Class I, Division 2

AVERTISSEMENT: la substitution de composants peut nuire à l'aptitude à la Classe I, Division 2.

WARNING: Do not disconnect equipment unless power has been switched off or the area is known to be safe.

AVERTISSEMENT: Ne débranchez pas l'équipement sauf si l'alimentation a été coupée ou si la zone est connue pour être sûre.

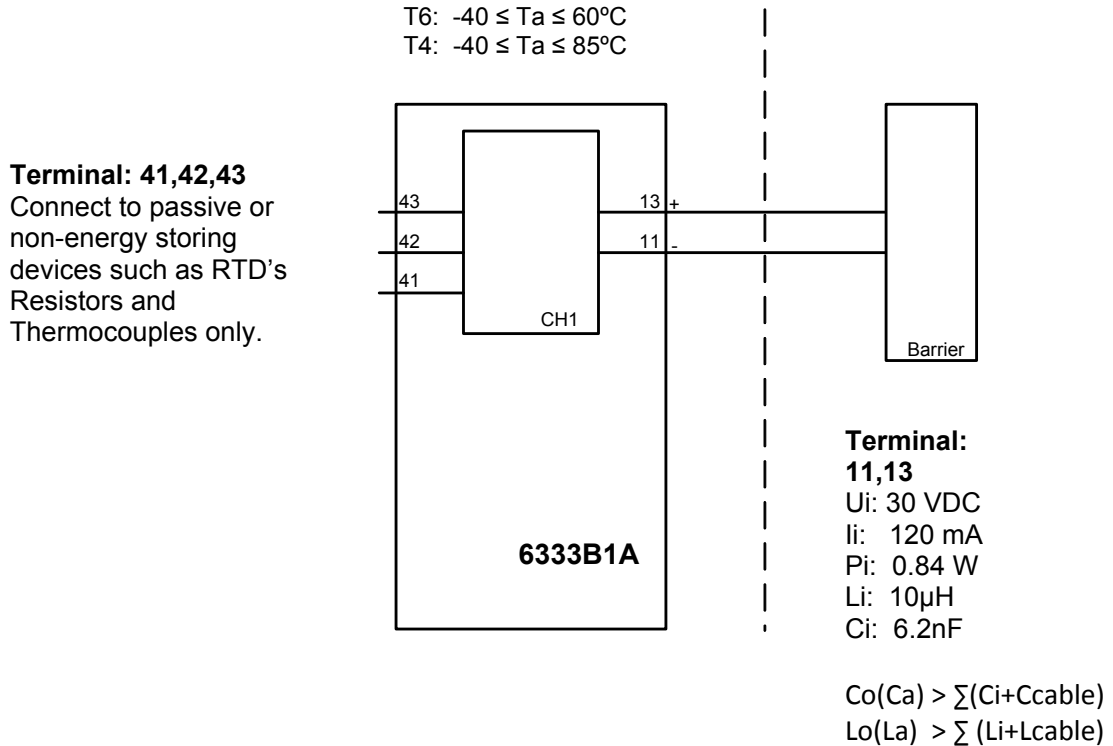
**Non Incendive field wiring installation**

The non incendive field Wiring Circuit concept allows interconnection of Nonincendive Field wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specially examined in combination as a system using any of the wiring methods permitted for unclassified locations,

$V_{oc} < V_{max}$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$ .

Hazardous (Classified ) Location  
IS, Class I, Division 1, Group A,B,C,D T4..T6  
Ex ia IIC T4..T6 Ga  
Class I, Zone 0, AEx ia IIC T4..T6 Ga

Non Hazardous Location



**Installation notes.**

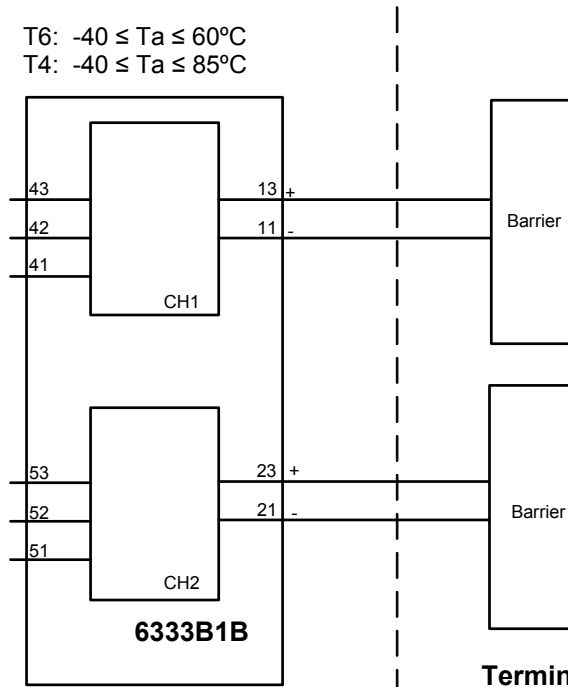
The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

Substitution of components may impair intrinsic safety.

Hazardous (Classified ) Location  
IS, Class I, Division 1, Group A,B,C,D T4..T6  
Ex ia IIC T4..T6 Ga  
Class I, Zone 0, AEx ia IIC T4..T6 Ga

Non Hazardous Location

**Terminal: 41,42,43  
51,52,53**  
Connect to passive or non-energy storing devices such as RTD's Resistors and Thermocouples only.



**Terminal:  
11, 13 and  
21, 23**  
Ui: 30 VDC  
Ii: 120 mA  
Pi: 0.84 W  
Li: 10μH  
Ci: 6.2nF

$Co(Ca) > \sum(Ci+Ccable)$   
 $Lo(La) > \sum(Li+Lcable)$

**Installation notes.**

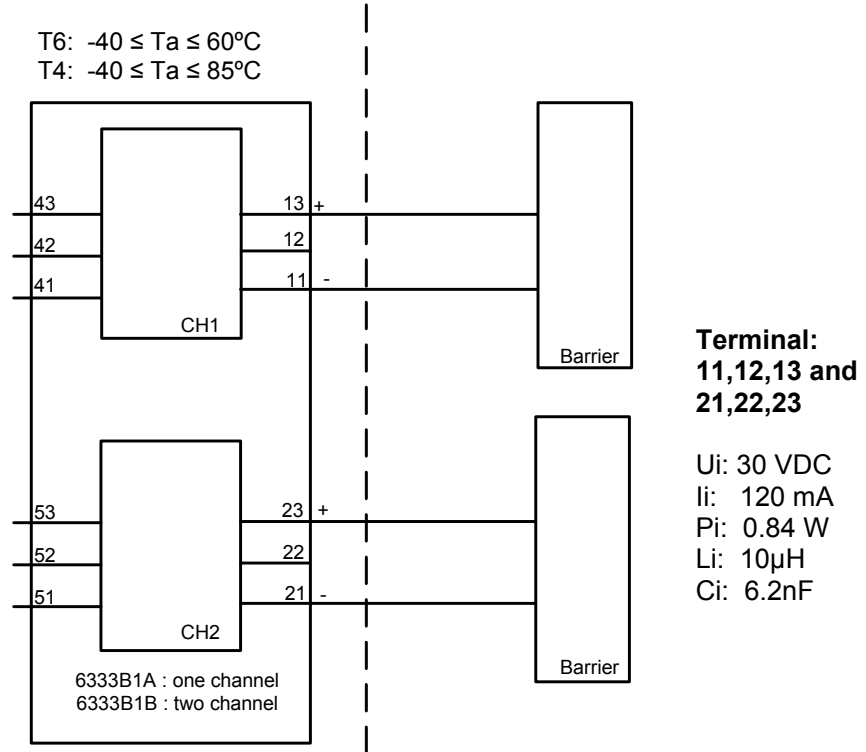
The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

Channel 1 and Channel 2 are separate channels and therefore separate shielded cables shall be used for each channel.

Substitution of components may impair intrinsic safety.

Hazardous (Classified ) Location  
Class I, Division 1, Group A,B,C,D T4..T6  
Class I, Zone 0, AEx ia IIC T4..T6

Non Hazardous Location



**Installation notes.**

For installation in Class I the Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

Equipment that is FM-approved for intrinsic safety may be connected to barriers based on the Entity Concept. This concept permits interconnection of approved transmitters, meters and other devices in combinations, which have not been specifically examined by FM, provided that the agency's criteria are met. The combination is then intrinsically safe, if the entity concept is acceptable to the authority having jurisdiction over the installation.

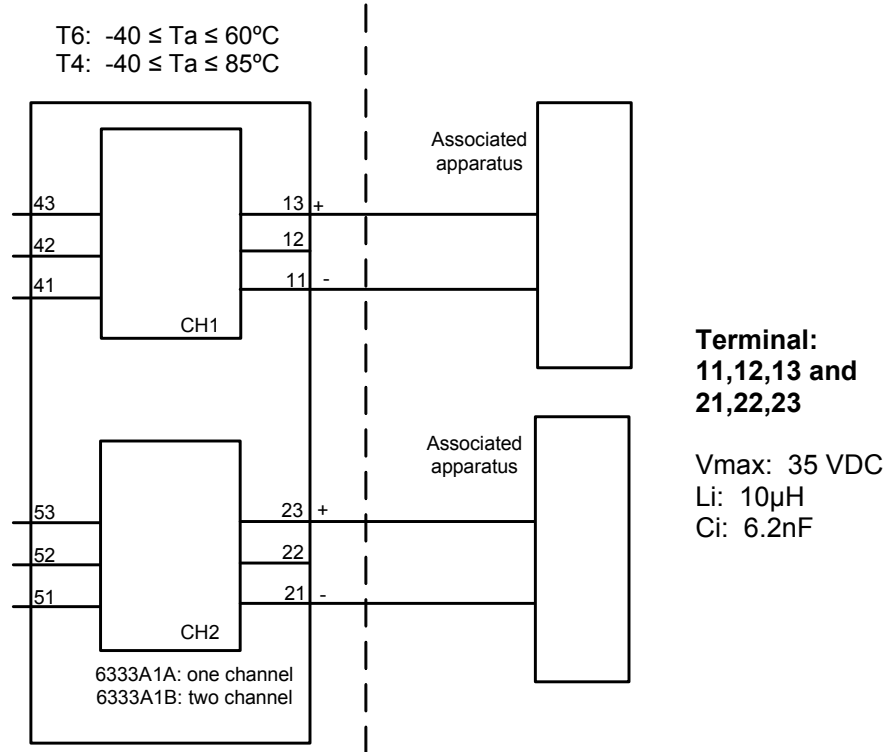
The entity concept criteria are as follows: The intrinsically safe devices, other than barriers, must not be a source of power. The maximum voltage  $U_i(V_{MAX})$  and current  $I_i(I_{MAX})$ , and maximum power  $P_i(P_{max})$ , which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage ( $U_o$  or  $V_{OC}$  or  $V_t$ ) and current ( $I_o$  or  $I_{SC}$  or  $I_t$ ) and the power  $P_o$  which can be delivered by the barrier. The sum of the maximum unprotected capacitance ( $C_i$ ) for each intrinsically device and the interconnecting wiring must be less than the capacitance ( $C_a$ ) which can be safely connected to the barrier. The sum of the maximum unprotected inductance ( $L_i$ ) for each intrinsically device and the interconnecting wiring must be less than the inductance ( $L_a$ ) which can be safely connected to the barrier. The entity parameters  $U_o$ ,  $V_{OC}$  or  $V_t$  and  $I_o$ ,  $I_{SC}$  or  $I_t$ , and  $C_a$  and  $L_a$  for barriers are provided by the barrier manufacturer.

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Hazardous (Classified ) Location  
Class I, Division 2, Group A,B,C,D T4..T6  
Class I, Zone 2, IIC T4..T6

Non Hazardous Location



**Installation notes.**

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

To assure a Non-Incendive system the transmitter and associated apparatus must be wired in accordance with the associated apparatus manufacturers field wiring instructions and the circuit diagram shown above.

## 文档更新记录

以下列表提供了有关本文档修订的说明。

版本号	日期	说明
104	1543	添加 CSA、FM 和 IECEx 认证。
105	2015	添加了有关最大需用功率的规格。 新 FM 证书。 获得 6333A 的 CSA 认证。添加安装图。

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