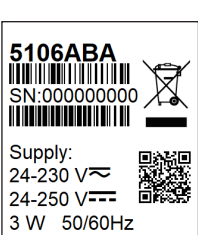
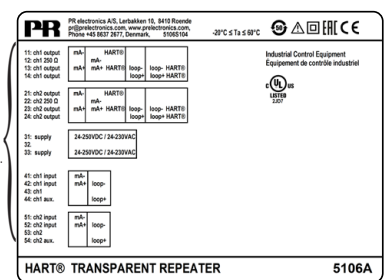


Part Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Printed circuit board	X	0	0	0	0	0
This table is prepared in accordance with the provisions of SJ/T 11364 Q: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572. X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.						

The product's Environmentally Friendly Use Period (EFUP) is 50 years



UL CONTROL DRAWING 5104QU01

Hazardous (Classified) Location

Class I, Division 1, Group A,B,C,D
Class I , Zone 0 and 1, Group IIC
Class II, Division 1 Group E, F, G

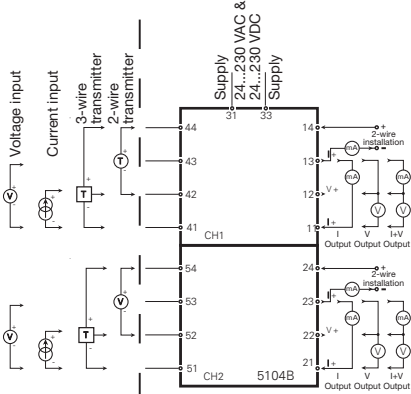
Nonhazardous

Associated apparatus
Galvanically Isolated

Intrinsically safe apparatus
entity parameters:

$$\begin{aligned} V_{\max. (U_i)} &\geq V_t (U_o) \\ I_{\max. (I_i)} &\geq I_t (I_o) \\ P_i &\geq P_o \\ C_a &\geq C_{\text{cable}} + C_i \\ L_a &\geq L_{\text{cable}} + L_i \end{aligned}$$

The sum of capacitance and inductance of cable and intrinsic safe equipment must be less or equal to C_a and L_a



5104B Associated apparatus parameters			
CH1	Terminals 41 to 44		
CH2	Terminals 51 to 54		
Vt (Uo)	28 V		
It (Io)	93 mA		
Po	0.65 W		
	IIC / grp. A,B	IIB / grp. C	IIA / grp.D
Ca (Co)	0.052 µF	0.44 µF	1.45 µF
La (Lo)	2.4 mH	12 mH	20 mH

Installation notes:

- 1) The maximum nonhazardous location voltage is 250VAC/DC.
- 2) The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- 3) The terminals of the two individual channels shall not be interconnected in any way.
- 4) Install in Pollution degree 2 or better
- 5) Use 60 / 75 °C copper conductors with wire size AWG: (26 - 14).
- 6) Warning: Substitution of components may impair intrinsic safety.

Rev. AA 2003-02-12

UL CONTROL DRAWING 5105QU01

Hazardous (Classified) Location

Class I, Division 1, Group A,B,C,D
Class I , Zone 0 and 1, Group IIC
Class II, Division 1 Group E, F, G

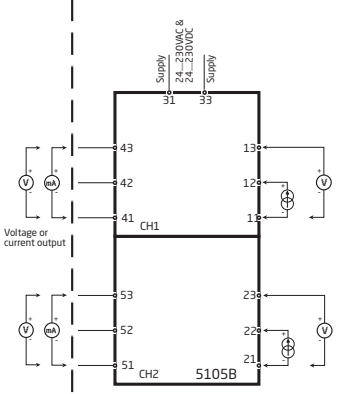
Nonhazardous

Associated apparatus
Galvanically isolated

Intrinsically safe apparatus
entity parameters:

$$\begin{aligned} V_{\max. (U_i)} &\geq V_o (U_o) \\ I_{\max. (I_i)} &\geq I_{sc} (I_o) \\ P_i &\geq P_o \\ C_a &\geq C_{\text{cable}} + C_i \\ L_a &\geq L_{\text{cable}} + L_i \end{aligned}$$

The sum of capacitance and inductance of cable and intrinsic safe equipment must be less or equal to C_a and L_a



5105B Associated apparatus parameters			
CH1	Terminals 41 to 43		
CH2	Terminals 51 to 53		
Voc (Uo)	28 V		
Isc (Io)	93 mA		
Po	0.65 W		
	IIC / grp. A,B	IIB / grp. C	IIA / grp.D
Ca (Co)	0.052 µF	0.44 µF	1.45 µF
La (Lo)	2.4 mH	12 mH	20 mH

Installation notes:

- 1) The maximum nonhazardous location voltage is 250 VAC/DC.
- 2) The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- 3) The terminals of the two individual channels shall not be interconnected in any way.
- 4) Install in Pollution degree 2 or better
- 5) Use 60 / 75 °C copper conductors with wire size AWG: (26 - 14).
- 6) Warning: Substitution of components may impair intrinsic safety.

Rev. AA 2003-02-12

UL CONTROL DRAWING 5106QU01

Hazardous (Classified) Location

Class I, Division 1, Group A,B,C,D
Class I , Zone 0 and 1, Group IIC
Class II, Division 1 Group E, F, G

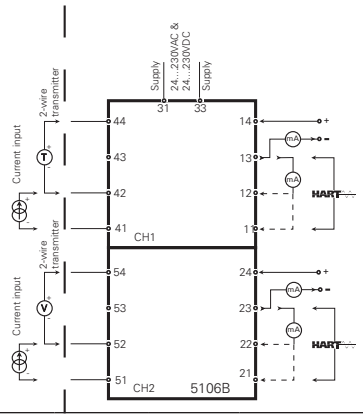
Nonhazardous

Associated apparatus
Galvanically Isolated

Intrinsically safe apparatus
entity parameters:

$$\begin{aligned} V_{\max. (U_i)} &\geq V_t (U_o) \\ I_{\max. (I_i)} &\geq I_t (I_o) \\ P_i &\geq P_o \\ C_a &\geq C_{\text{cable}} + C_i \\ L_a &\geq L_{\text{cable}} + L_i \end{aligned}$$

The sum of capacitance and inductance of cable and intrinsic safe equipment must be less or equal to C_a and L_a



5106B Associated apparatus parameters			
CH1	Terminals 44 to 41,42		Terminals 41 to 42
CH2	Terminals 54 to 51,52		Terminals 51 to 52
Vt (Uo)	28 V		10V
It (Io)	93 mA		2 mA
Po	0.65 W		5 mW
	IIC / grp. A, B	IIB / grp. C	IIA / grp.D
Ca (Co)	0.06 µF	0.52 µF	1.72 µF
La (Lo)	2.4 mH	12 mH	20 mH

Installation notes:

- 1) The maximum nonhazardous location voltage is 250VAC/DC.
- 2) The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- 3) The terminals of the two individual channels shall not be interconnected in any way.
- 4) Install in Pollution degree 2 or better
- 5) Use 60 / 75 °C copper conductors with wire size AWG: (26 - 14).
- 6) Warning: Substitution of components may impair intrinsic safety.

EU DECLARATION OF CONFORMITY

(5104DoC_103)



As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following products:
Type: 5104
Name: Repeater / Power Supply
From serial no.: 5104AA and 5104BA-U9: 251740243
5104AB and 5104BB-U9: 251920261

is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments
EN 61326-1 : 2013
EN 61326-1 : 2021

Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive 2014/35/EU and later amendments
EN 61010-1 : 2010 + A1 : 2019

The RoHS2 Directive 2011/65/EU and later amendments
EN IEC 63000 : 2018

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Rønde, 9 January 2026

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY

(5105DoC_103)



As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following products:
Type: 5105B-U9
Name: Ex-isolated driver
From serial no.: 5105BA-U9: 251144043
5105BB-U9: 251276045

is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments
EN 61326-1 : 2013
EN 61326-1 : 2021

Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive 2014/35/EU and later amendments
EN 61010-1 : 2010 + A1 : 2019

The RoHS2 Directive 2011/65/EU and later amendments
EN IEC 63000 : 2018

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Rønde, 9 January 2026

Stig Lindemann
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY

(5106DoC_103)



As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
hereby declares that the following products:
Type: 5106
Name: HART transparent repeater
From serial no.: 5106ABA and 5106BBA-U9: 251483043
5106ABB and 5106BBB-U9: 251861032

is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments
EN 61326-1 : 2013

Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The Low Voltage Directive 2014/35/EU and later amendments
EN 61010-1 : 2010 + A1 : 2019

The RoHS2 Directive 2011/65/EU and later amendments
EN IEC 63000 : 2018

This declaration of conformity is issued under the sole responsibility of the manufacturer.

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