



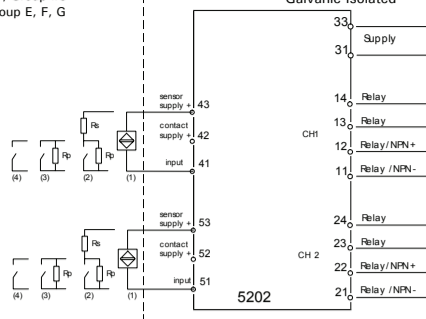
# UL CONTROL DRAWING 5202QU01

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  
Galvanic Isolated



5202B Associated apparatus parameters	
CH1	Terminals 41 to 43
CH2	Terminals 51 to 53
Vt (Uo)	10.6 V
It (Io)	13.8 mA
Po	0.038 W
	IIC / grp. A,B IIB / grp. C IIA / grp. D
Ca (Co)	1.9 µF
La (Lo)	160 mH
Relay output 11 - 14, 21 - 24	
Voltage	250V AC, 100 VA
Current	2 A AC, 100 VA
24VDC	1 A DC
Pilot Duty	120/240 V AC, 100V AC
NPN output 11 - 12, 21 - 22	
General purpose	30V DC, 80 mA
Pilot duty	30V DC, 80 mA

Intrinsically safe apparatus  
entity parameters:

Vmax (Uj) ≥ Vt (Uo)  
Imax (Ij) ≥ It (Io)  
Pi ≥ Po  
Ca ≥ Ccable + Ci  
La ≥ Lcable + Li

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

Installation notes:

- The maximum nonhazardous location voltage is 250Vac/dc.
- The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- The terminals of the two individual channels shall not be interconnected in any way.
- Install in Pollution degree 2 or better
- Use 60 / 75 °C Copper Conductors with Wire Size AWG: (26 – 14).
- Warning: Substitution of components may impair intrinsic safety.
- If cable parameters are unknown Ccable may be set to 60pF/ft and Lcable may be set to 0.20 µH/ft

Rev. AA 2003-09-19

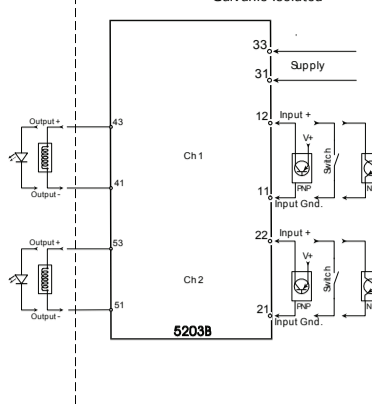
# UL CONTROL DRAWING 5203QU01

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  
Galvanic Isolated



Intrinsically safe apparatus  
entity parameters:

Vmax (Uj) ≥ Vt (Uo)  
Imax (Ij) ≥ It (Io)  
Pi ≥ Po  
Ca ≥ Ccable + Ci  
La ≥ Lcable + Li

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

5203B Associated apparatus parameters											
Type	F			H			I				
Vt (Uo)	28 V			28 V			28 V				
It (Io)	115 mA			110 mA			83 mA				
Po	0.81 W			0.77 W			0.65 W				
Group	A,B and IIC	C and IIB	D and IIA	A,B and IIC	C and IIB	D and IIA	A,B and IIC	C and IIB	D and IIA		
La (Lo)	1.6 mH	5.0 mH	16mH	2.0 mH	8 mH	20 mH	2.4 mH	9 mH	25 mH		
Ca (Co)	0.06 µF	0.52 µF	1.7µF	0.06µF	0.52 µF	1.7µF	0.06 µF	0.52 µF	1.7µF		

Installation notes:

- The maximum nonhazardous location voltage is 250Vac/dc.
- The installation shall be in accordance with the National Electrical Code NFPA 70, Articles 504 and 505.
- The terminals of the two individual channels shall not be interconnected in any way.
- Install in Pollution degree 2 or better
- Use 60 / 75 °C Copper Conductors with Wire Size AWG: (26 – 14).
- Warning: Substitution of components may impair intrinsic safety.
- If cable parameters are unknown Ccable may be set to 60pF/ft and Lcable may be set to 0.20 µH/ft

Rev. AA 2003-09-19

## EU DECLARATION OF CONFORMITY



(5202DoC\_102)

As manufacturer

PR electronics A/S, Lerbakken 10, DK-8410 Rønde

hereby declares that the following products:

Type: 5202  
Name: Pulse isolator  
From serial no.: 171359005

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

The ATEX Directive 2014/34/EU and later amendments

EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E  
and EN 50281-1-1 : 1998 incl. A1  
ATEX certificate: DEMKO 99ATEX127186 (5202B)

No changes are required to enable compliance with the replacement standards:

EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012

ATEX notified body (type approval)

UL International Demko A/S  
Borupvang 5  
DK-2750 Ballerup

The RoHS2 Directive 2011/65/EU and later amendments

EN 50581 : 2012

Notified body 0344

DEKRA Certification B.V.  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

Rønde, 16 January 2018

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

## EU DECLARATION OF CONFORMITY



(5203DoC\_102)

As manufacturer

PR electronics A/S, Lerbakken 10, DK-8410 Rønde

hereby declares that the following products:

Type: 5203B  
Name: Ex solenoid / alarm driver  
From serial no.: 171283076

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

The ATEX Directive 2014/34/EU and later amendments

EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E  
and EN 50281-1-1 : 1998 incl. A1  
ATEX certificate: DEMKO 99ATEX126257

No changes are required to enable compliance with the replacement standards:

EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012

ATEX notified body (type approval)

UL International Demko A/S  
Borupvang 5  
DK-2750 Ballerup

The RoHS2 Directive 2011/65/EU and later amendments

EN 50581 : 2012

Notified body 0344

DEKRA Certification B.V.  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

Rønde, 16 January 2018

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

## EU DECLARATION OF CONFORMITY



(5223DoC\_102)

As manufacturer

PR electronics A/S, Lerbakken 10, DK-8410 Rønde

hereby declares that the following products:

Type: 5223  
Name: Programmable f/I - f/I converter  
From serial no.: 171361020

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

The ATEX Directive 2014/34/EU and later amendments

EN 50014 : 1997, EN 50020 : 2002 and EN 50284 : 1999  
ATEX certificate: KEMA 04ATEX1001 (5223B)

No changes are required to enable compliance with the replacement standards:

EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012

ATEX notified body (type approval)

DEKRA Certification B.V.  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

The RoHS2 Directive 2011/65/EU and later amendments

EN 50581 : 2012

Notified body 0344

DEKRA Certification B.V.  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

Rønde, 16 January 2018

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

## EU DECLARATION OF CONFORMITY



(5225DoC\_102)

As manufacturer

PR electronics A/S, Lerbakken 10, DK-8410 Rønde

hereby declares that the following products:

Type: 5225  
Name: Programmable f/I - f/I converter  
From serial no.: 171519001

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

The RoHS2 Directive 2011/65/EU and later amendments

EN 50581 : 2012

Rønde, 14 August 2017

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature

## EU DECLARATION OF CONFORMITY



(5420DoC\_102)

As manufacturer

PR electronics A/S, Lerbakken 10, DK-8410 Rønde

hereby declares that the following products:

Type: 5420B  
Name: Ex power supply  
From serial no.: 151453059

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

The ATEX Directive 2014/34/EU and later amendments

EN 50014 : 1997 E incl. A1+A2, EN 50020 : 2002 E  
and EN 50281-1-1 : 1998 incl. A1  
ATEX certificate: DEMKO 99ATEX126256

No changes are required to enable compliance with the replacement standards:

EN 60079-0 : 2012 + A11 : 2013 and EN 60079-11 : 2012

ATEX notified body (type approval)

UL International Demko A/S  
Borupvang 5  
DK-2750 Ballerup

The RoHS2 Directive 2011/65/EU and later amendments

EN 50581 : 2012

Notified body 0344

DEKRA Certification B.V.  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

Rønde, 16 January 2018

*Stig Lindemann*  
Stig Lindemann, CTO  
Manufacturer's signature