

Jumper programming 5202

Signal transmission	Channel 1 JP 11	Channel 2 JP 21	Cable error detection	Channel 1 JP 12	Channel 2 JP 22
Direct			ON		
Inverted			OFF		

Channel 1 signal to Channel 2	Channel 1 JP 13	Channel 2 function	Channel 2 JP 23
Cable error		Channel 1 to channel 2 ON; input 2 disabled	
Signal		Channel 1 to channel 2 OFF; input 2 active	

Relay function	N.O.	N.C.
Channel 1	Relay 1, JP41 	Relay 1, JP42
Channel 2	Relay 1, JP51 	Relay 2, JP52

DK Ex godkendelser **UK** I.S approvals **FR** Approbations S.I. **DE** Ex-Zulassungen

	ATEX	Wires into Area / Zone	Installation drawing	IECEx	Wires into Area / Zone	Installation drawing	UL 913		Control drawing	CCC	EAC Ex
5202B	DEKRA 20ATEX0018X	0, 1, 2, 20, 21, 22	5202QA02	IECEx DEK 24.0013X	0, 1, 2, 20, 21, 22	5202QI02	UL-US- 2422982-1	IS, Cl. I, Div. 1, Gr. A, B, C, D IS, Cl. I, zone 0 og 1, Gr. IIC IS, Cl. II, Div. 1, Group E, F, G	5202QU02	Pending	EAEU KZ 7500361.01.01.10203
5203B	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	20170505- E233311	IS, Cl. I, Div. 1, Gr. A, B, C, D IS, Cl. I, zone 0 og 1, Gr. IIC IS, Cl. II, Div. 1, Group E, F, G	5203QU01	N.A.	N.A.
5420B	DEMKO 99ATEX126256	0, 1, 2, 20, 21, 22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	EAEU KZ 7500361.01.01.08756

DK Ex-data **UK** I.S data **FR** Données S.I. **DE** Ex-Daten

	5420B
ATEX	Ex II (1) GD [EEx ia] IIC Um 250 V
Terminal	41...43 (51...53)
Uo	28 VDC
Io	93 mA DC
Po	0.65 W
Lo	3 mH
Co	0.08 µF

PR **electronics** **5202QA02**
LERBAKKEN 10, 8410 RØNDE DENMARK

ATEX Installation drawing

For safe installation of 5202B 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.

ATEX certificate DEKRA 20ATEX0018 X
Standards EN IEC 60079-0:2018
EN 60079-11:2012
Marking II (1) G [Ex ia Ga] IIC/II B/IIA
II (1) D [Ex ia Ga] IIC

Hazardous Area Zone 0, 1, 2, 20, 21, 22 Non-hazardous Area -20 ≤ Ta ≤ 60°C

Uo: 10.6 V
Io: 13.8 mA
Po: 38 mW

Uo: 10.6 V
Io: 13.8 mA
Po: 38 mW

Relay output Terminal 11, 12, 13, 14
AC voltage 250 V
AC current 2 A
Power 100 VA
DC voltage 24 V
DC current 1 A

PR **electronics** **5202QA02**
LERBAKKEN 10, 8410 RØNDE DENMARK

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Uo: 10.6 V
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Po: 38 mW

Relay output Terminal 11, 12, 13, 14
AC voltage 250 V
AC current 2 A
Power 100 VA
DC voltage 24 V
DC current 1 A

Installation notes:
The protection degree of the housing is IP20.
The circuits connected in the non-hazardous area shall be limited to overvoltage category II.
The module shall be installed within a controlled environment with reduced pollution, limited to pollution degree 2.
Power supply, inputs and outputs are all galvanically isolated from each other.
When two or more units are placed next to each other, it has to be assured that all the Ex-terminal numbers 41...44 and 51...54 are placed on the same side and are separated from the non-intrinsically safe circuits of the units which could be mounted above or below it.

PR **electronics** **5202QI02**
LERBAKKEN 10, 8410 RØNDE DENMARK

IECEx Installation drawing

For safe installation of 5202B 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 24.0013X
Standards IEC 60079-0:2017
IEC 60079-11:2011
Marking [Ex ia Ga] IIC/II B/IIA
[Ex ia Ga] IIC

Hazardous Area Zone 0, 1, 2, 20, 21, 22 Non-hazardous Area -20 ≤ Ta ≤ 60°C

Uo: 10.6 V
Io: 13.8 mA
Po: 38 mW

Uo: 10.6 V
Io: 13.8 mA
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AC voltage 250 V
AC current 2 A
Power 100 VA
DC voltage 24 V
DC current 1 A

PR **electronics** **5202QI02**
LERBAKKEN 10, 8410 RØNDE DENMARK

Hazardous Area Zone 0, 1, 2, 20, 21, 22 Non-hazardous Area -20 ≤ Ta ≤ 60°C

Uo: 10.6 V
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AC voltage 250 V
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Installation notes:
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The circuits connected in the non-hazardous area shall be limited to overvoltage category II.
The module shall be installed within a controlled environment with reduced pollution, limited to pollution degree 2.
Power supply, inputs and outputs are all galvanically isolated from each other.
When two or more units are placed next to each other, it has to be assured that all the Ex-terminal numbers 41...44 and 51...54 are placed on the same side and are separated from the non-intrinsically safe circuits of the units which could be mounted above or below it.

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PR **electronics** **Control Drawing 5202QU02**
LERBAKKEN 10, 8410 RØNDE DENMARK

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

Unclassified Location
Associated apparatus
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Intrinsically safe apparatus
entity parameters:
Vmax (Ui) ≥ Vt (Uo)
Imax (Ii) ≥ It (Io)
Pi ≥ Po
Ca ≥ Cmax + Ci
La ≥ Lmax + Li
The sum of capacitance and inductance of cable and intrinsic safe equipment must be less or equal to Ca and La

Installation notes:

Revision date: 2025-06-24 Version Revision V1R0 Prepared by: PB Page: 1/2

PR **electronics** **Control Drawing 5202QU02**
LERBAKKEN 10, 8410 RØNDE DENMARK

1) The maximum non hazardous location voltage is 250V ac/dc.
2) The equipment provides isolation in accordance with UL/CSA 60079-11 between non-I.S. and I.S. circuits.
3) For installation in Canada the module must be installed according to the Canadian Electrical Code (CEC).
4) For installation in the US the module must be installed according to the National Electrical Code (NEC).
5) The terminals of the two individual channels shall not be interconnected in any way.
6) Install in Pollution degree 2 or better
7) The circuits connected in the non-hazardous area shall be limited to overvoltage category II.
8) Use 60 / 75 °C Copper Conductors with Wire Size AWG: (26 – 14).
9) Warning: Substitution of components may impair intrinsic safety.
10) LA SUBSTITUTION DES COMPOSANTS PEUT NUIRE À LA SÉCURITÉ INTRINSÈQUE.
11) To prevent ignition of flammable or combustible atmospheres disconnect power before servicing
12) Pour éviter l'inflammation des atmosphères inflammables ou combustibles, débranchez l'alimentation avant toute maintenance.
13) If cable parameters are unknown C_{max} may be set to 60pF/ft and L_{max} may be set to 0.20 µH/ft

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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 (Ui) ≥ Vt (Uo)
Imax (Ii) ≥ It (Io)
Pi ≥ Po
Ca ≥ Cmax + Ci
La ≥ Lmax + Li
The sum of capacitance and inductance of cable and intrinsic safe equipment must be less or equal to Ca and La

Installation notes:
1) The maximum nonhazardous location voltage is 250V ac/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.
7) If cable parameters are unknown C_{max} may be set to 60pF/ft and L_{max} may be set to 0.20 µH/ft

Revision date: 2025-06-24 Version Revision V1R0 Prepared by: PB Page: 2/2

EU DECLARATION OF CONFORMITY
(5202DoC_103)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønne
hereby declares that the following products:
Type: 5202
Name: Pulse isolator
From serial no.: 251584001-251599200
252074001
is in conformity with the following directives and standards:
The EMC Directive 2014/30/EU and later amendments
EN 61326-1 : 2021
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 ATEX Directive 2014/34/EU and later amendments
EN IEC 60079-0 : 2018 + A11 : 2024 and EN 60079-11 : 2012
ATEX certificate: DEKRA 20ATEX0018X (5202B)
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 IEC 63000 : 2018
Notified body 0344
DEKRA Certification B.V.
Meander 1051, 6825 MJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønne, 20 August 2025
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY
(5203DoC_103)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønne
hereby declares that the following products:
Type: 5203B-U9
Name: Ex solenoid / alarm driver
From serial no.: 5203BF1-U9: 241537041
5203BH1-U9: 221521025
5203BH2-U9: 251368094
5203BI1-U9: 221521030
5203BI2-U9: 251368048
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 50581 : 2012
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønne, 1 December 2025
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY
(5223DoC_103)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønne
hereby declares that the following products:
Type: 5223
Name: Programmable f/I - f/I converter
From serial no.: 5223A1: 251700005
5223A2: 251257082
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 50581 : 2012
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønne, 1 December 2025
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY
(5225DoC_102)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønne
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
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønne, 14 August 2017
Stig Lindemann, CTO
Manufacturer's signature

EU DECLARATION OF CONFORMITY
(5420DoC_102)

As manufacturer
PR electronics A/S, Lerbakken 10, DK-8410 Rønne
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
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rønne, 16 January 2018
Stig Lindemann, CTO
Manufacturer's signature