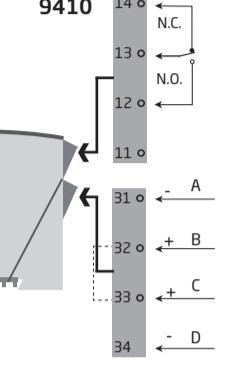
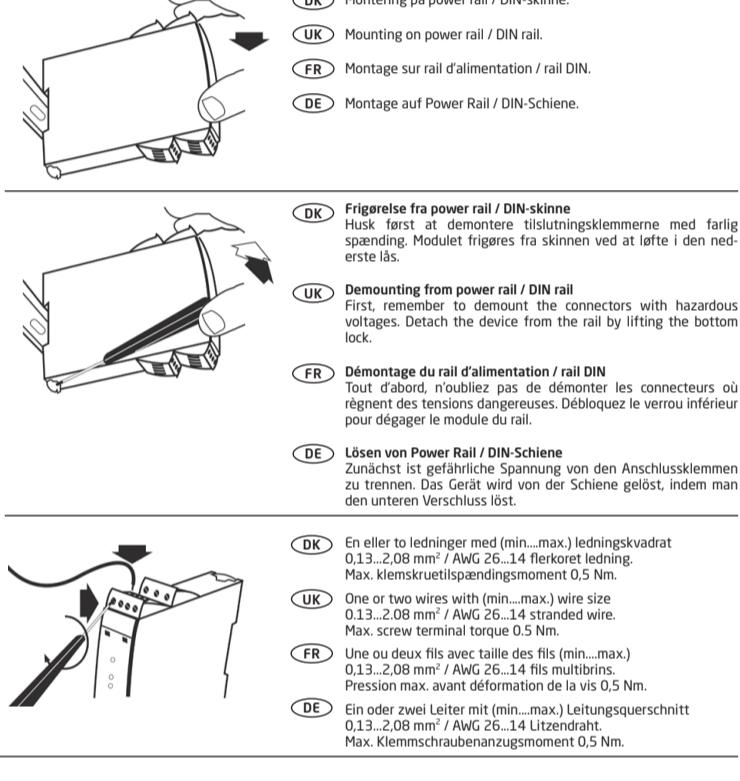




9410 电源模块
丹麦製造
佩勒电子(上海)有限公司
云岭东路 651 号 305 室
普陀区, 上海 200062 中国



	DK	UK	FR	DE
A	Gnd	Gnd	Masse	Erde
B	Forsyning +21.6...26.4 VDC	Power supply +21.6...26.4 VDC	Alimentation +21.6...26.4 Vcc	Versorgung +21.6...26.4 VDC
C	Backup-forsyning +21.6...26.4 VDC	Backup supply +21.6...26.4 VDC	Alimentation de secours +21.6...26.4 Vcc	Backup-Versorgung +21.6...26.4 VDC
D	Backup-forsyning, Gnd	Backup supply, Gnd	Alimentation de secours, masse	Backup-Versorgung, Erde
E	Forsyning via power rail	Power supply via power rail	Alimentation par rail	Versorgung über Power Rail
N.O.	Normalt åben	Normally open	Normalement ouvert	Schließer
N.C.	Normalt lukket	Normally closed	Normalement fermé	Offner



	DK	UK	FR	DE
Kina RoHS				
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))
Printed circuit board	X	0	0	0
				Polybrominated biphenyls (PBB)
				Polybrominated diphenyl ethers (PBDE)

This table is prepared in accordance with the provisions of SJ/T 11364

O: 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

- DK Dokumentation, godkendelser og yderligere information findes på internettet på www.prelectronics.dk
- UK Document, permits and other information can be found on the internet at www.prelectronics.com
- FR La documentation et toute autre information peuvent être trouvées sur l'Internet sur notre site: www.prelectronics.fr
- DE Dokumentationen, Zulassungen und andere Informationen können auf unserer Internet-Seite unter www.prelectronics.de gefunden und abgerufen werden.
- BR Documentações, licenças e outras informações podem ser encontradas no site www.prelectronics.com

EU DECLARATION OF CONFORMITY
(9410Dc_10)

As manufacturer PR electronics A/S, Lerbakken 10, DK-8410 Rønde hereby declares that the following product:

Type: 9410 Power control unit
From serial no.: 231368002

is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments
EN 61000-3-2: 2013 + A1: 2010 + A1: 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 61000-6-1: 2013

The ATEX Directive 2014/34/EU and later amendments
EN 60079-0 : 2016 EN 60079-7 : 2015 + A1: 2010 and EN 60079-15 : 2019

ATEX notified body (type approval)
DEKRA Certification B.V.
Meander 1051, 6825 MJ Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands

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

Notified body 0341
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.

Rønde, 13 April 2023

Søren Lindemann, CTO
Manufacturer's signature

DK
ADVARSEL
Denne modul er beregnet for tilslutning til livsfarlige elektriske spændinger. Hvis denne advarsel ignoreres, kan det føre til alvorlig legemsbeskadigelse eller mekanisk ødelæggelse.
For at undgå fare for elektriske stød og brand skal sikkerhedsreglerne overholdes, og vejledningerne skal følges. Specifikationerne må ikke overskrives, og modulet må kun benyttes som beskrevet i det følgende.
Installationsvejledningen skal studeres omhyggeligt, før modulet tages i brug. Kun kvalificerede personale (teknikere) må installere dette modul. Hvis modulet ikke benyttes som beskrevet i denne installationsvejledning, så vil forringes modulets beskyttelsesforskriftstilstand.

UK
WARNING
This device is designed for connection to hazardous electric voltages. Ignoring this warning can result in severe personal injury or mechanical damage.
GENERAL To avoid the risk of electric shock and fire, the safety instructions of this guide must be observed and the device must only be applied as described in the following. Prior to the commissioning of the device, this installation guide must be examined carefully.
Only qualified personnel (technicians) should install this device. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

FR
AVERTISSEMENT
Ce module est conçu pour supporter une connexion à des tensions électriques dangereuses. Si vous ne tenez pas compte de cet avertissement, cela peut causer des dommages corporels ou des dégâts mécaniques. Pour éviter les risques d'électrocution et d'incendie, conformez-vous aux consignes de sécurité et suivez les instructions mentionnées dans ce guide. Vous devez vous limiter aux spécifications indiquées et respecter les instructions d'utilisation de ce module, telles qu'elles sont décrites dans ce guide. Il est nécessaire de lire attentivement avant de mettre ce module en marche l'installation de ce module est réservée à un personnel qualifié (techniciens). Si la méthode d'utilisation de l'équipement diffère de celle décrite par le fabricant, la protection assurée par l'équipement risque d'être altérée.

DE
WARNUNG
Dieses Gerät ist für den Anschluss an lebensgefährliche elektrische Spannungen gebaut. Missachtung dieser Warnung kann zu schweren Verletzungen oder mechanischer Zerstörung führen. Um eine Gefährdung durch Stromstöße oder Brand zu vermeiden müssen die Sicherheitsregeln der Installationsanleitung eingehalten, und die Anweisungen befolgt werden. Die Spezifikationswerte dürfen nicht überschritten werden, und das Gerät darf nur gemäß folgender Beschreibung benutzt werden. Diese Installationsanleitung ist sorgfältig durchzulesen, ehe das Gerät in Gebrauch genommen wird. Nur qualifizierte Personen (Techniker) dürfen dieses Gerät installieren. Wenn das Gerät nicht wie in dieser Installationsanleitung beschrieben benutzt wird, werden die Schutzleistungen des Gerätes beeinträchtigt.

ADVARSEL
Der må ikke tilsluttes farlig spænding til modulet, for dette er fastmonteret, og følgende operationer bør kun udføres på modulet i spændingslös tilstand og under ESD-sikre forhold:
Installation, ledningsmontage og -demontage.
Fejlfinding på modulet.
Reparation af modulet og udskifting af skringer må kun foretages af PR electronics A/S.

WARNING
Until the device is fixed, do not connect hazardous voltages to the device.
The following operations should only be carried out on a disconnected device and under ESD safe conditions:
General mounting, connection and disconnection of wires.
Troubleshooting the device.
Repair of the device and replacement of circuit breakers must be done by PR electronics A/S only.

AVERTISSEMENT
Tant que le module n'est pas fixé, ne le mettez pas sous tensions dangereuses. Les opérations suivantes doivent être effectuées avec le module débranché et dans un environnement exempt de décharges électrostatiques (ESD):
Montage général, raccordement et débranchement de fils.
Recherche de pannes sur le module.
Seule PR electronics SARL est autorisée à réparer le module à remplacer les fusibles.

WANRUNG
Vor dem abgeschlossenen festen Einbau des Gerätes darf an keine gefährliche Spannung angeschlossen werden, und folgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnissen durchgeführt werden:
Installation, Montage und Demontage von Leitungen.
Fehlersuche im Gerät.
Reparatur des Gerätes und Austausch von Sicherungen dürfen nur von PR electronics A/S vorgenommen werden.

SIKKERHEDSREGLER
Modtagelse og udpakning
Udpak modulet uden at bortskade det. Kontroller ved modtagelsen, at modulene svarer til den bestilte. Indpakningen bør følge modulet, indtil det er monteret på blivende plads.

RECEIPT AND UNPACKING
Unpack the device without damaging it. The packing should always follow the device until this has been permanently mounted. Check at the receipt of the device whether the type corresponds to the one ordered.

ENVIRONMENT
Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock, as well as rain and heavy moisture. If necessary, heating in excess of the stated limits for ambient temperatures should be avoided by ventilation.
All devices can be used for Measurement / Overvoltage Category II and Pollution Degree 2. The modules are designed to be safe at least under an altitude up to 2 000 m. The device is designed for indoor use.

REINHEITSGESETZ
Um das Gerät für Mess- / Überspannungskategorie II und Verschmutzungskategorie 2 benutzt werden. Das Gerät ist so konzipiert, dass es auch in einer Einsatzhöhe von bis zu 2000 m noch sicher funktioniert. Das Gerät ist auf den Gebrauch in Innenräumen ausgestellt.

Mounting
Only qualified technicians who are familiar with the technical terminology, and instructions, in this installation guide and who are able to follow these should connect the device.
Should there be any doubt as to the correct handling of the device, please contact your local distributor, or, alternatively, PR electronics A/S.

Mounting and adjustment
Mount the device without damaging it. The device should be handled with care and according to the instructions in this installation guide. If there is any doubt about how to handle the device, please contact your local distributor, or, alternatively, PR electronics A/S.

DESCRIPTIONS
Receipt and unpacking
Déballez le module sans l'endommager. Il est recommandé de conserver l'emballage du module tant que ce dernier n'est pas définitivement monté. A la réception du module, vérifiez que le type correspond au celui que vous avez commandé.

ENVIRONNEMENT
N'exposez pas votre module aux rayons directs du soleil et choisissez un endroit à l'humidité modérée et à l'abri de la poussière, des températures élevées, des chocs et des vibrations mécaniques et de la pluie. Le cas échéant, des systèmes de ventilation permettent d'éviter qu'une pièce soit chauffée au-delà des limites prescrites pour les températures ambiantes. Tous les modules peuvent être installés dans la catégorie de mesure / surtension II et de pollution 2. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2 000 m. L'appareil est conçu pour une utilisation intérieure.

Installation
Modulet må kun installeres ved kvalificerede teknikere, som er bekendte med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen, og som vil følge disse.

Installation and adjustment
Mount the device without damaging it. The device should be handled with care and according to the instructions in this installation guide. If there is any doubt about how to handle the device, please contact your local distributor, or, alternatively, PR electronics A/S.

CONSIGNES DE SECURITE
Réception et déballage
Déballez le module sans l'endommager. Il est recommandé de conserver l'emballage du module tant que ce dernier n'est pas définitivement monté. A la réception du module, vérifiez que le type correspond au celui que vous avez commandé.

ENVIRONNEMENT
N'exposez pas votre module aux rayons directs du soleil et choisissez un endroit à l'humidité modérée et à l'abri de la poussière, des températures élevées, des chocs et des vibrations mécaniques et de la pluie. Le cas échéant, des systèmes de ventilation permettent d'éviter qu'une pièce soit chauffée au-delà des limites prescrites pour les températures ambiantes. Tous les modules peuvent être installés dans la catégorie de mesure / surtension II et de pollution 2. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2 000 m. L'appareil est conçu pour une utilisation intérieure.

Mounting and Justering
Under kalibrering og justering skal måling og tilslutning af eksterne spændinger udføres i henhold til denne installationsvejledning, og teknikeren skal benytte sikkerhedsmæssigt korrekte værktøj og instrumenter.

Mounting and Justering
During calibration and adjustment, the measuring and connection of external voltages must be carried out according to the specifications of this installation guide. The technician must use tools and instruments that are safe to use.

NETTOYAGE
When disconnected, the device may be cleaned with a cloth moistened with distilled water.

NETTOYAGE
Une fois le module hors tension, prenez un chiffon imbibé d'eau distillée pour le nettoyer.

Cleaning
Operatører må kun installere betjente modulene, når disse er fast installeret på forsvarlig måde i tavler el. lignende, så betjening ikke medfører fare for liv eller materiel. Dvs., at der ikke er berøringsfare, og at modulet er placeret, så det er let at betjene.

Cleaning
During calibration and adjustment, the measuring and connection of external voltages must be carried out according to the specifications of this installation guide. The technician must use tools and instruments that are safe to use.

CLEANING
When disconnected, the device may be cleaned with a cloth moistened with distilled water.

CLEANING
Eine Reinigung der Bauteile ist nur durch qualifizierte Techniker mit den technischen Ausdrücken, Warnungen und Anweisungen in dieser Installationsanleitung verhindert.

Electriske particulariteter
Specifikationsområde -20°C til +60°C

Electrical specifications
Specifications range -20°C to +60°C
Supply voltage and backup supply 21.6...26.4 VDC
Max. consumption 96 W
Relative humidity < 95% RH (non-cond.)
Dimensions (HxWxD) 109 x 23.5 x 104 mm
Protection degree IP20

Spécifications
Spécifications -20°C à +60°C
Tension d'alimentation et alimentation de secours 21.6...26.4 Vcc
Consommation max. 96 W
Humidité relative < 95% HR (sans cond.)
Dimensions (HxLxP) 109 x 23.5 x 104 mm
Degré de protection IP20

Spezifikationen
Spezifikationsbereich -20°C bis +60°C
Versorgungsspannung und Backup-Versorgung 21.6...26.4 VDC
Max. Verbrauch 96 W
Relative Luftfeuchtigkeit < 95% RH (nicht kond.)
Abmessungen (HxBxT) 109 x 23.5 x 104 mm
Schutzart IP20

Udgang
Udgangsspænding 0-5 VDC
Backup-udgang ved 4 A
Udgangseffekt 96 W (max.)

Output:
Output voltage Input voltage-0.5 VDC (@ 4 A)
Output power 96 W (max.)
Output current 4 A (max.)

Approuvations:
DNV, Ships & Offshore TAA00000JD
c UL us, UL 61010-1 E314307
EAC TR-CU 020/2011
EAC LVD TR-CU 004/2011
EAC Ex TR-CU 012/2011

Approvals:
DNV, Ships & Offshore TAA00000JD
c UL us, UL 61010-1 E314307
EAC TR-CU 020/2011<br

IECEx Installation drawing

9410
For safe installation of 9410 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.

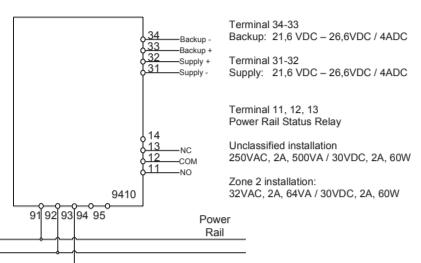
Year of manufacture can be taken from the first two digits in the serial number.

9410 Power Control Unit

IECEx Certificate IECEx KEM 08.0025 X
Marking: Ex ec nC IIC T4 Gc
Standards: IEC60079-0:2017, IEC60079-15:2017, IEC60079-7:2017

Non Hazardous Area or Zone 2

T4: -20 °C < Ta < +60°C

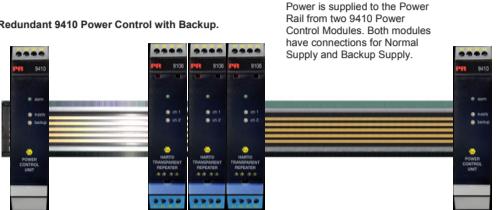


Revision date: 2020-07-07 Version Revision: V4R0 Prepared by: PB Page: 1/3

9410 Power Control with backup.



Redundant 9410 Power Control with Backup.



Installation notes:

General
The 9410 must be supplied from a Power Source with Double or Reinforced insulation to Mains.

Terminal blocks:
Wire size: 0.13-2.08 mm² / AWG 26-14 stranded wire
Screw terminal torque: 0.5 Nm

Revision date: 2020-07-07 Version Revision: V4R0 Prepared by: PB Page: 1/3

For installation in Zone 2

The Power Control Unit Type 9410 and Power Rail Type 9400 shall be installed in a controlled environment with suitably reduced pollution, limited to pollution degree 2 or better.

The circuit shall be limited to overvoltage category II/II as defined in IEC 60664-1.

The 9410 Power Control Unit and 9400 Power Rail must be installed in an outer enclosure having an IP protection of at least IP54, conforming to the requirements of explosion protection Ex-n or Ex-e.

Transients are suppressed by an internal transient protection device, which is set to a level not exceeding 40% of the rated voltage.

WARNING: Do not separate connectors when energized and an explosive gas mixture is present.

WARNING: Do not install or remove modules from the Power Rail unless Area is known to be Non Hazardous.

WARNING: Terminals 91, 92, 93, 94, 95 may only be connected to Power Rail 9400.

Revision date: 2020-07-07 Version Revision: V4R0 Prepared by: PB Page: 3/3

UKCA DECLARATION OF CONFORMITY

(9410QI01_UKCA_100)

As manufacturer

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

hereby declares that the following product:

Type: 9410

Name: Power control unit

From serial no.: 231368002

is in conformity with the following statutory requirements:

The Electromagnetic Compatibility Regulations 2016 (UK SI 2010/1101) and later amendments

EN 61010-1 : 2010 * A1 : 2019

The Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres Regulations 2016 (UK SI 2015/1107) and later amendments

EN IEC 60079-0 : 2018, EN 60079-7 : 2015 + A1 : 2019 and EN 60079-15 : 2019

UK type examination certificate: DEKRA Z1UKEX0169 X

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2010/3032) and later amendments

EN IEC 63000 : 2018

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

Sig Liedemann
Manufacturer's signature

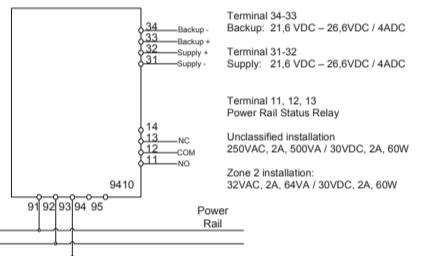
Rønde, 13 April 2023

FM Installation drawing

9410 Power Control Unit
For safe installation of 9410 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.

Non Hazardous Area or Division 2 / Zone 2

T4: -20 °C < Ta < +60°C

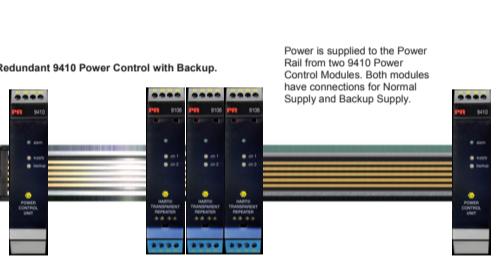


Revision date: 2019-04-04 Version Revision: V3R0 Prepared by: PB Page: 1/3

9410 Power Control with backup.



Redundant 9410 Power Control with Backup.



9410QF01

Installation notes:

The installation and wiring shall be in accordance with the Canadian Electrical Code for Canada and National Electrical Code NFPA 70, Article 500 or 505 for installation in USA.

The module must be supplied from a Power Supply having double or reinforced insulation.

The use of stranded wires is not permitted for mains wiring except when wires are fitted with cable ends.

For installation in Zone 2 or Division 2, the module must be installed in a suitable outer enclosure according to the regulations in the CEC for Canada or NEC for USA.

Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.

Install in pollution degree 2 or better.

Substitution of components may impair the suitability for division 2 / zone 2 installation.

Warning: To prevent ignition of the explosive atmospheres, disconnect power before servicing and do not separate connectors when energized and an explosive gas mixture is present.

WARNING: Do not install or remove modules from the Power Rail and do not remove connectors from the module unless Area is known to be Non Hazardous.

Revision date: 2019-04-04 Version Revision: V3R0 Prepared by: PB Page: 2/3

Revision date: 2019-04-04 Version Revision: V3R0 Prepared by: PB Page: 3/3

UL Installation drawing

9410-U9
For safe installation of the Process Control Equipment 9410-U9, 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.

Model: 9410-U9 Power Control Unit

Marking:

UL 9410 Power Control Unit, Prop. Cert. Eq. for Use in Haz. Loc. Inst. in CL I DIV 2 GP-A-D T4 or CL II 2nd Grp IIC T4 E233311

The 9410-U9 equipment is intended for installation in non-classified locations or Class Division 2, Groups A – D or Zone 2 Group IC hazardous locations.

Standards:

- UL 121301 NONINCENDIVE ELECTRICAL EQUIPMENT FOR USE IN CLASS I AND II, DIVISION 2 AND CLASS III, DIVISIONS 1 AND 2 HAZARDOUS (CLASSIFIED) LOCATIONS Edition 9 - Revision Date 2018/03/31

- CSA C22.2 NO. 213 NONINCENDIVE ELECTRICAL EQUIPMENT FOR USE IN CLASS I AND II, DIVISION 2 AND CLASS III, DIVISIONS 1 AND 2 HAZARDOUS (CLASSIFIED) LOCATIONS-Edition 3 - Issue Date 2017/09/01

9410QF01

Installation notes 9410-U9

The module must be installed in a tool-secured enclosure suitable for the application in accordance with the National Electrical Code (ANS/NFPA 70) for installation in the United States, the Canadian Electrical Code for installations in Canada, or other local codes, as applicable.

Install in pollution degree 2, overvoltage category II in accordance with IEC 60664-1.

Use minimum 75 °C copper conductors with wire size AWG: (26-14)

There are no serviceable parts in the equipment and no component substitution is permitted.

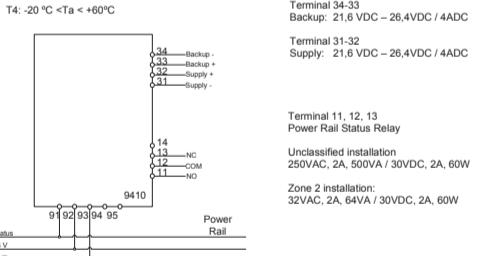
Warning: To prevent ignition of the explosive atmospheres, disconnect power before servicing and do not separate connectors, install or remove modules from Power Rail when energized and an explosive gas mixture is present.

Avertissement: Pour éviter l'ignition d'atmosphères explosives, déconnectez l'alimentation avant les opérations d'entretien. Ne montez pas ou n'enlevez pas les connecteurs lorsque le module est sous tension et en présence d'un mélange de gaz. Ne montez pas ou n'enlevez pas les modules du rail d'alimentation en présence d'un mélange de gaz.

The 9410-U9 must be supplied from a Power Source with Double or Reinforced insulation to Mains.

Non Hazardous Area or Zone 2

T4: -20 °C < Ta < +60°C



Revision date: 2019-11-18 Version Revision: V1R0 Prepared by: PB Page: 1/3

Revision date: 2019-11-18 Version Revision: V1R0 Prepared by: PB Page: 2/3

Revision date: 2019-11-18 Version Revision: V1R0 Prepared by: PB Page: 3/3

INMETRO Desenhos para Instalação

9410
Para a instalação segura do 9410 o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com as leis, normas e diretrizes internacionais, diretivas e normas que se aplicam a esta área.

Ano de fabricação pode ser obtido a partir dos dois primeiros dígitos do número de série.

9410 Unidade de Controle de Potência

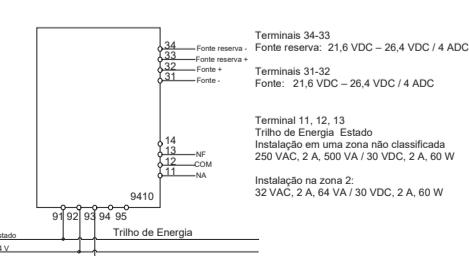
INMETRO Certificado DEKRA 23.0013X

Marcas: Ex ec nC IIC T4 Gc

Normas: ABNT NBR-IEC 60079-0:2010 Versão Corrigida-2022
ABNT NBR-IEC 60079-7:2010 Versão Corrigida-2022
ABNT NBR-IEC 60079-15:2013 Versão Corrigida-2017
ABNT NBR-IEC 60079-17:2019

Área não classificada ou Zone 2

T4: -20 °C < Ta < +60°C



Revision date: 2023-06-30 Version Revision: V6R0 Prepared by: TORO Page: 1/3