



DK

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

ADVARSEL
FARLIG SPÆNDING
 Der må ikke tilsluttes farlig spænding til modulet, før dette er fastmonteret, og følgende operationer bør kun udføres på modulet i spændingsløs tilstand og under ESD-sikre forhold.
 Installation, ledningsmontage og -demontage. Fejlfinding på modulet.
 Reparation af modulet og udskiftning af sikringer må kun foretages af PR electronics A/S.

SIKKERHEDSREGLER

Mottagelse og udpakning
 Udpak modulet uden at beskadige det. Kontrollér ved mottagelsen, at modultypen svarer til den bestilte. Indpakningen bør følge modulet, indtil dette er monteret på blivende plads.

Miljøforhold
 Undgå direkte sollys, kraftigt støv eller varme, mekaniske rystelser og stød, og udsæt ikke modulet for regn eller kraftigt fugt. Om nødvendigt skal opvarmning, udover de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation.
 Alle moduler kan anvendes i Måle- / overspændingskategorier II og Forureningsgrad 2. Modulerne er designet til at være sikker mindst op til en højde af 2000 m.

Installation
 Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendte med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen, og som vil følge disse.
 Hvis der er tvivl om modulets rette håndtering, skal der rettes henvendelse til den lokale forhandler eller alternativt direkte til PR electronics A/S.

Det er ikke tilladt at benytte flertrådet ledning ved tilslutning af forsyningsledning med mindre ledningsendene er forsynet med ledningstypiler.
 Beskrivelse af indgang / udgang og forsyningsforbindelse findes i produktmanualen og på sideskiltet.
 Modulet er forsynet med skrutermineraler og skal forsynes fra en dobbeltisoleret / forstærket isoleret spændingsforsyning. En afbryder placeres let tilgængeligt og tæt ved modulet. Afbryderen skal mærkes således, at der ikke er tvivl om, at den afbryder spændingen til modulet.

Ved installation på Power Rail 9400 bliver forsynings-spændingen leveret af Power Control Unit type 9410.
Kalibrering og justering
 Under kalibrering og justering skal måling og tilslutning af eksterne spændinger udføres i henhold til denne installationsvejledning, og teknikeren skal benytte sikkerhedsmæssigt korrekte værktøjer og instrumenter.

Betjening under normal drift
 Operatører må kun indstille eller betjene modulerne, når disse er fast installeret på forsvarlig måde i tavler eller lignende, så betjeningen ikke medfører fare for liv eller materiel. Dvs., at der ikke er berøringsfare, og at modulet er placeret, så det er let at betjene.

Rengøring
 Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

Elektriske specifikationer
 Specifikationsområde: -20°C til +60°C
 Forsyningsspænding og backup-forsyning: 21,6...26,4 VDC
 Max. forbrug: 96 W
 Relativ luftfugtighed: < 95% RH (ikke kond.)
 Mål (H x B x D): 109 x 23,5 x 104 mm
 Kapslingsklasse: IP20

Udgang:
 Udgangsspænding: Indgangsspænding-0,5 VDC (ved 4 A)
 Udgangseffekt: 96 W (max.)
 Udgangsstrøm: 4 A (max.)

Godkendelser:
 DNV, Ships & Offshore: Stand. f. Certification No. 2.4 ClassNK
 UL, Standard for Safety: UL 61010-1
 EAC: TR-CU 020/2011
 EAC Ex: TR-CU 012/2011

Overholdte myndighedskrav
 EMC: 2014/30/EU
 LVD: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

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

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

Approvals:
 DNV, Ships & Offshore: Stand. f. Certification No. 2.4 ClassNK
 UL, Standard for Safety: UL 61010-1
 EAC: TR-CU 020/2011
 EAC Ex: TR-CU 012/2011

Observed authority requirements:
 EMC: 2014/30/EU
 LVD: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

Compatibility with the normes:
 CEM: 2014/30/EU
 DBT: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

EU DECLARATION OF CONFORMITY
 (9410DoC_102)
 As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:
Type: 9410
Name: Power control unit
From serial no.: 161307073
 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 60079-0 : 2012 + A11 and EN 60079-15 : 2010**
ATEX certificate: KEMA 07ATEX0152 X
 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 March 2018

 Stig Lindemann, CTO
 Manufacturer's signature

PR electronics A/S • Lerbakken 10 • DK-8410 Rønde • Tel. +45 8637 2677 • Fax +45 8637 3085 • www.prelectronics.com

UK

WARNING
GENERAL
 This device is designed for connection to hazardous electric voltages. Ignoring this warning can result in severe personal injury or mechanical damage.
 To avoid the risk of electric shock and fire, the safety instructions of this guide must be observed and the guidelines followed. The specifications must not be exceeded, 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.

WARNING
HAZARDOUS VOLTAGE
 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.

SAFETY INSTRUCTIONS

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 way of 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.

Mounting
 Only qualified technicians who are familiar with the technical terms, warnings, 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.

The use of stranded wires is not permitted for mains wiring except when wires are fitted with cable ends. Descriptions of input / output and supply connections are shown in the product manual and on the side label. The device is provided with field wiring terminals and shall be supplied from a Power Supply having double / reinforced insulation. A power switch shall be easily accessible and close to the device. The power switch shall be marked as the disconnecting unit for the device. For installation on Power Rail 9400 the power is supplied by Power Control Unit 9410.

Calibration and adjustment
 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.

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

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

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 UL, Standard for Safety: UL 61010-1
 EAC: TR-CU 020/2011
 EAC Ex: TR-CU 012/2011

Observed authority requirements:
 EMC: 2014/30/EU
 LVD: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

Compatibility with the normes:
 CEM: 2014/30/EU
 DBT: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

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 Specifications range: -20°C to +60°C
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 The ATEX Directive 2014/34/EU and later amendments **EN 60079-0 : 2012 + A11 and EN 60079-15 : 2010**
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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 ce guide 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.

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 et recherche de pannes sur le module.
 Seule PR electronics SARL est autorisée à réparer le module et à remplacer les fils.

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 de module reçu correspond à celui que vous avez commandé.

Environnement
 N'exposez pas votre module aux rayons directs du soleil et choisissez un emplacement humide et protégé 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 catégorie de mesure / surtension II et degré de pollution 2. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2000 m.

Montage
 Il est conseillé de réserver le raccordement du module aux techniciens qualifiés qui connaissent les termes techniques, les avertissements et les instructions de ce guide et qui sont capables d'appliquer ces dernières. Si vous avez un doute quelconque quant à la manipulation du module, veuillez contacter votre distributeur local. Vous pouvez également vous adresser à PR electronics SARL.

Pour le raccordement électrique de l'alimentation générale, il est possible d'utiliser des fils multibrins seulement s'ils possèdent des embouts de câblage. Les connexions des alimentations et des entrées / sorties sont décrites dans le manuel du produit et sur l'étiquette de la face latérale du module. Les appareils sont équipés de borniers à vis et doivent être raccordés à une alimentation qui a une isolation double ou renforcée. L'interrupteur doit être à proximité du module et facile d'accès. Ce bouton doit être étiqueté avec la mention 'peut couper la tension du module'. Pour une installation sur le rail d'alimentation 9400, le module sera alimenté par le contrôleur d'alimentation 9410.

Etalonnage et réglage
 Lors des opérations d'étalonnage et de réglage, il convient d'effectuer les mesures et les connexions des tensions externes en respectant les spécifications mentionnées dans ce guide. Les techniciens doivent utiliser des outils et des instruments pouvant être manipulés en toute sécurité.
 Maintenance et entretien
 Une fois le module hors tension, prenez un chiffon imbibé d'eau distillée pour le nettoyer.

Spécifications
 Plage de température: -20° 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 (HxWxD): 109 x 23,5 x 104 mm
 Degré de protection: IP20

Sortie:
 Tension de sortie: Tension d'entrée-0,5 Vcc (à 4 A)
 Puissance de sortie: 96 W (max.)
 Courant de sortie: 4 A (max.)

Approbations:
 DNV, Ships & Offshore: Stand. f. Certification No. 2.4 ClassNK
 UL, Standard for Safety: UL 61010-1
 EAC: TR-CU 020/2011
 EAC Ex: TR-CU 012/2011

Observed authority requirements:
 EMC: 2014/30/EU
 LVD: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

Compatibility with the normes:
 CEM: 2014/30/EU
 DBT: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

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

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

Approvals:
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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 March 2018

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DE

WARNING
 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 Schutzmaßnahmen des Gerätes beeinträchtigt.

WARNING
 Vor dem abgeschlossenen festen Einbau des Gerätes darf daran 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 Montage von Leitungen. Fehleruche im Gerät. Reparaturen am Gerät und Austausch von Sicherungen nur von PR electronics A/S vorgenommen werden.

SICHERHEITSGEGELN

Empfang und Auspacken
 Packen Sie das Gerät aus, ohne es zu beschädigen, und kontrollieren Sie beim Empfang, ob der Gerätetyp Ihrer Bestellung entspricht. Die Verpackung sollte beim Gerät bleiben, bis dieses am endgültigen Platz montiert ist.

Umgebungsbedingungen
 Direkte Sonneneinstrahlung, starke Staubeentwicklung oder Hitze, mechanische Erschütterungen und Stöße sind zu vermeiden; das Gerät darf nicht Regen oder starker Feuchtigkeit ausgesetzt werden. Bei Bedarf muss eine Erwärmung, welche die angegebenen Grenzen für die Umgebungstemperatur überschreitet, mit Hilfe eines Kühlgebläses verhindert werden.
 Alle Geräte können für Mess- / Überspannungskategorie II und Verschmutzungsgrad 2 benutzt werden. Das Gerät ist so konzipiert, dass es auch in einer Einsatzhöhe von bis zu 2000 m noch sicher funktioniert.

Installation
 Das Gerät darf nur von qualifizierten Technikern angeschlossen werden, die mit den technischen Ausdrücken, Warnungen und Anweisungen in dieser Installationsanleitung vertraut sind und diese befolgen.
 Sollten Zweifel bezüglich der richtigen Handhabung des Gerätes bestehen, sollte man mit dem Händler vor Ort Kontakt aufnehmen. Sie können aber auch direkt mit PR electronics GmbH Kontakt aufnehmen.
 Der Einsatz von verdillter Leitung ist nicht erlaubt außer die Enden sind mit Aderendhülsen versehen. Eine Beschreibung von Eingangs- / Ausgangs- und Versorgungsanschlüssen befindet sich a im Produktmanual und auf dem Typenschild.

Das Gerät ist mit Feldverdrahtungsklemmen ausgestattet und wird von einem Netzteil mit doppelter / verstärkter Isolierung versorgt. Der Netzschalter sollte leicht zugänglich und in der Nähe des Gerätes sein. Der Netzschalter sollte mit einem Schild gekennzeichnet sein, auf dem steht, dass durch Betätigung dieses Schalters das Gerät vom Netz genommen wird.
 Für den Anschluss auf der Power Rail 9400 wird das Gerät über das Power Control Unit 9410 versorgt.

Kalibrierung und Justierung
 Während der Kalibrierung und Justierung sind die Messung und der Anschluss externer Spannungen entsprechend dieser Installationsanleitung auszuführen, und der Techniker muss hierbei sicherheitsmäßig einwandfreie Werkzeuge und Instrumente benutzen.

Reinigung
 Das Gerät darf in spannungslosem Zustand mit einem Lappen gereinigt werden, der mit destilliertem Wasser leicht angefeuchtet ist.

Elektrische Daten
 Umgebungstemperatur: -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 (HxWxD): 109 x 23,5 x 104 mm
 Schutzart: IP20

Ausgang:
 Ausgangsspannung: Eingangsspannung-0,5 VDC (@ 4 A)
 Ausgangsleistung, max.: 96 W
 Ausgangsstrom, max.: 4 A

Zulassungen:
 DNV, Ships & Offshore: Stand. f. Certification No. 2.4 ClassNK
 UL, Standard for Safety: UL 61010-1
 EAC: TR-CU 020/2011
 EAC Ex: TR-CU 012/2011

Eingehaltene Behördenvorschriften:
 EMV: 2014/30/EU
 LVD: 2014/35/EU
 ATEX: 2014/34/EU
 RoHS: 2011/65/EU

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

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

Approvals:
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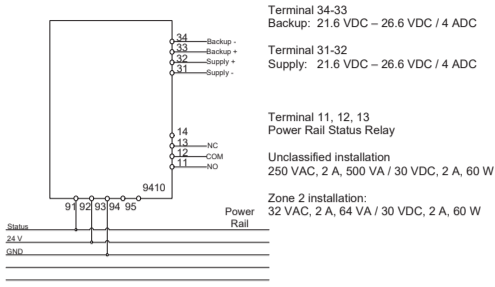
ATEX Installation drawing 9410QA01-V3R0

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

ATEX Certificate: KEMA 07ATEX0152X
Marking: II 3G Ex nA nC IIC T4 Gc
Standards: EN60079-0:2012, EN60079-15:2010

Non Hazardous Area or Zone 2
T4: -20 °C < Ta < +60°C



9410 Power Control with backup.



Redundant 9410 Power Control with Backup.



9420 Power Supply and 9410 Power Control with Backup



Maintain a minimum distance of 50 mm between the 9420 Power Supply and other modules.

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

Alternatively use PR9420 Power Supply for installation inside or outside Zone2.

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

For installation in Zone 2
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.

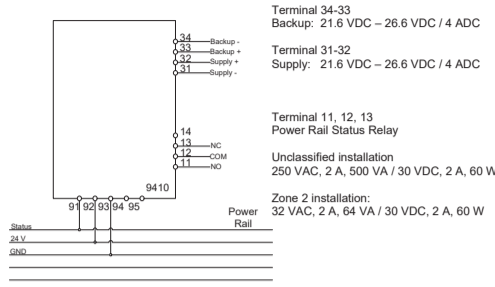
IECEx Installation drawing 9410QI01-V3R0

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 nA nC IIC T4 Gc
Standards: IEC60079-0:2011, IEC60079-15:2010

Non Hazardous Area or Zone 2
T4: -20 °C < Ta < +60°C



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

For installation in Zone 2
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.

INMETRO Desenhos para Instalação 9410QB01-V4R0

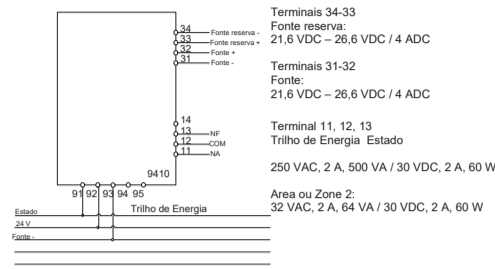
9410
Para instalação segura do 9410 o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com as leis nacionais e internacionais, diretrizes e normas que se aplicam a esta área.
Ano de fabricação pode ser obtido a partir dos dois primeiros dígitos do número de série.

9410 Unidade de Controle de Potência

INMETRO Certificado: DEKRA 16.0007X

Marcas: Ex nA nC IIC T4 Gc
Normas: ABNT NBR IEC60079-0:2013, ABNT NBR IEC60079-15:2012

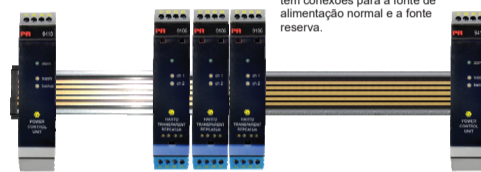
Area de não Risco Area ou Zone 2
T4: -20 °C < Ta < +60°C



9410 Controle de Potência com reserva.



Controle de Potencia 9410 redundante com reserva.



Notas para Instalação:

Gerar
O 9410 deve ser energizado por uma fonte de alimentação com isolamento duplo ou reforçado vindo da rede elétrica.

Para instalação em Zona 2
O equipamento deve ser instalado dentro de um invólucro certificado conforme as normas da série ABNT NBR IEC 60079 que forneça no mínimo grau de proteção IP54.

Transientes são suprimidos por um dispositivo interno, que é definido para um nível não superior a 40% da tensão nominal.

AVISO: Não separe conectores quando energizado e uma mistura explosiva de gás estiver presente.

AVISO: Não instalar ou remover os módulos do trilho de energia a menos que área seja conhecida como não perigoso (não risco).

AVISO: Terminais 91, 92, 93, 94 e 95 só podem ser conectados ao Trilho de Energia 9400.

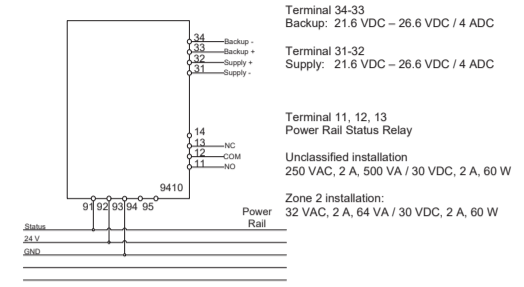
FM Installation drawing 9410QF01-V2R3

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.

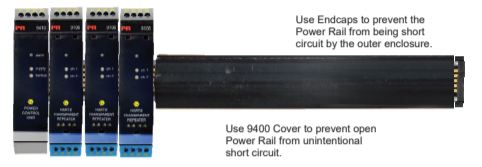
c-FM-us Certificate: 3034431
Marking: NI, Class I, Division 2, Group A,B,C,D T4 or Class I, Zone2, AEx nA nC IIC T4 Class I, Zone2, Ex nA nC IIC T4

Standard: Class 3600, Class 3611, Class 3810, ANSI/ISA 12.00.01 / 12.12.02, ISA 60079-15:2002, CSA-E79-15, CSA-C22.2-213

Non Hazardous Area or Division 2 / Zone 2
T4: -20 °C < Ta < +60°C



9410 Power Control with backup.



Redundant 9410 Power Control with Backup.



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.

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.