

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 ødelæggelse.
 For at undgå faren for elektriske stød og brand skal sikkerhedsreglerne overholdes, og vejledningen skal følges. Specifikationerne må ikke overskrides, og modulet må kun benyttes som beskrevet i det følgende.

DK ADVARSEL

FÄRLIG SPÄNDING
 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 kan kun foretages af PR electronics A/S.

DK SIKKERHEDSREGLER

Modtagelse og udpakning
 Udpak modulet uden at beskadige det. Kontroller ved modtagelse, at modultypen svarer til den bestille. 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 kraftig fugt. Om nødvendigt skal opvarmning, ud over de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation.
 Alle moduler kan anvendes i Måle- / overspændings-kategori II og Forureningsgrad 2. Modulerne er designet til at være sikker mindst op til en højde af 2000 m. Eheden er konstrueret til indendørs brug.

Installation
 Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendt 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.

Der er ikke tilladt at benytte flerkort ledning ved tilslutning af forsyningsspænding med mindre ledningssenderne er forsynet med ledningsstyler.
 Flerkort ledning skal installeres med en afsoleringslængde på 5 mm eller via en egnet isoleret terminal som f.eks. en dupsko. Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen og på sideskiltet.

Modulet er forsynet med skrueterminaler 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 forsyningsspændingen 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 forsvaret måde i tavler el. 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..... TAA00000JD
 ClassNK..... TA18527M
 c UL us, UL 61010-1..... E314307
 EAC..... TR-CU 020/2011
 EAC LVD..... TR-CU 004/2011
 EAC Ex..... TR-CU 012/2011

Overholdte myndighedskrav
 EMC..... 2014/30/EU & UK SI 2016/1091
 LVD..... 2014/35/EU & UK SI 2016/1101
 ATEX..... 2014/34/EU & UK SI 2016/1107
 RoHS..... 2011/65/EU & UK SI 2012/3032

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.

UK 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.

UK 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. The device is designed for indoor use.

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.
 Stranded wire should be installed with an insulation stripping length of 5 mm or via a suitable insulated terminal such as a bootlace ferrule.
 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.

UK 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 (at 4 A)
 Output power..... 96 W (max.)
 Output current..... 4 A (max.)

Approvals:
 DNV, Ships & Offshore..... TAA00000JD
 ClassNK..... TA18527M
 c UL us, UL 61010-1..... E314307
 EAC..... TR-CU 020/2011
 EAC LVD..... TR-CU 004/2011
 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

Observed authority requirements
 EMC..... 2014/30/EU & UK SI 2016/1091
 LVD..... 2014/35/EU & UK SI 2016/1101
 ATEX..... 2014/34/EU & UK SI 2016/1107
 RoHS..... 2011/65/EU & UK SI 2012/3032

FR AVERTISSEMENT

INFORMATIONS GENERALES
 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.
 Evitement
 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 catégorie de mesure / surtension II et de degré de pollution 2. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2000 m. L'appareil est conçu pour une utilisation à l'intérieur.
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 dénudage de 5 mm ou au moyen d'une bome isolée appropriée, par exemple un embout 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.

FR AVERTISSEMENT

TENSION DANGEREUSE
 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 et à remplacer les fusibles.

FR CONSIGNES DE SECURITE

Réception et déballage
 Déballer 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 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 catégorie de mesure / surtension II et de degré de pollution 2. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2000 m. L'appareil est conçu pour une utilisation à l'intérieur.
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 dénudage de 5 mm ou au moyen d'une bome isolée appropriée, par exemple un embout 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.

FR SPECIFICATIONS

Plage de température..... -20° à +60°C (Ø 4 A)
 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

Sortie:
 Tension de sortie..... Tension d'entrée-0.5 Vcc (Ø 4 A)
 Puissance de sortie..... 96 W (max.)
 Courant de sortie..... 4 A (max.)

Approbations:
 DNV, Ships & Offshore..... TAA00000JD
 ClassNK..... TA18527M
 c UL us, UL 61010-1..... E314307
 EAC..... TR-CU 020/2011
 EAC LVD..... TR-CU 004/2011
 EAC Ex..... TR-CU 012/2011

Compatibilité avec les normes:
 CEM..... 2014/30/EU & UK SI 2016/1091
 DBT..... 2014/35/EU & UK SI 2016/1101
 ATEX..... 2014/34/EU & UK SI 2016/1107
 RoHS..... 2011/65/EU & UK SI 2012/3032

DE WARNUNG

ALLGEMEINES
 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 Schutzeinrichtungen des Gerätes beeinträchtigt.

DE WARNUNG

GEFÄHRLICHE SPANNUNG
 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 Verhältnisse durchgeführt werden:
 Installation, Montage und Demontage von Leitungen.
 Fehlersuche im Gerät.
 Reparaturen des Gerätes und Austausch von Sicherungen dürfen nur von PR electronics A/S vorgenommen werden.

DE SICHERHEITSGEDELN

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 an 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. Das Gerät ist auf den Gebrauch in Innenräumen ausgelegt.

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 Litzenadrähte ist nicht erlaubt außer die Enden sind mit Aderendhülsen versehen. Die Litzenadrähte sollten mit einer 5 mm Absoliellänge oder mit einer entsprechend isolierten Klemme, wie beispielsweise einer Aderendhülse, installiert werden.

Eine Beschreibung von Eingangs- / Ausganges- und Versorgungsanschlüssen befindet sich 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.

DE 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 (HxBxT)..... 109 x 23.5 x 104 mm
 Schutzart..... IP20

Ausgang:
 Ausgangsspannung..... Eingangsspannung-0.5 VDC (Ø 4 A)
 Ausgangsleistung, max..... 96 W
 Ausgangsström, max..... 4 A

Zulassungen:
 DNV, Ships & Offshore..... TAA00000JD
 ClassNK..... TA18527M
 c UL us, UL 61010-1..... E314307
 EAC..... TR-CU 020/2011
 EAC LVD..... TR-CU 004/2011
 EAC Ex..... TR-CU 012/2011

Eingehaltene Behördenvorschriften:
 EMV..... 2014/30/EU & UK SI 2016/1091
 LVD..... 2014/35/EU & UK SI 2016/1101
 ATEX..... 2014/34/EU & UK SI 2016/1107
 RoHS..... 2011/65/EU & UK SI 2012/3032

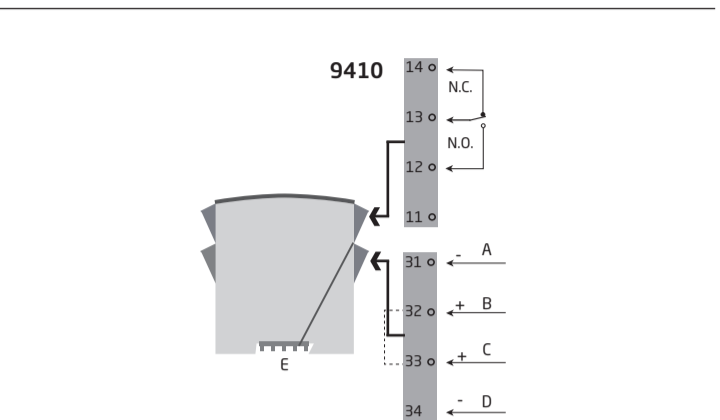




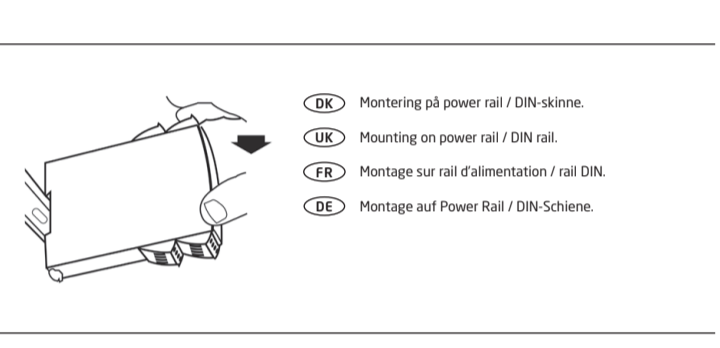




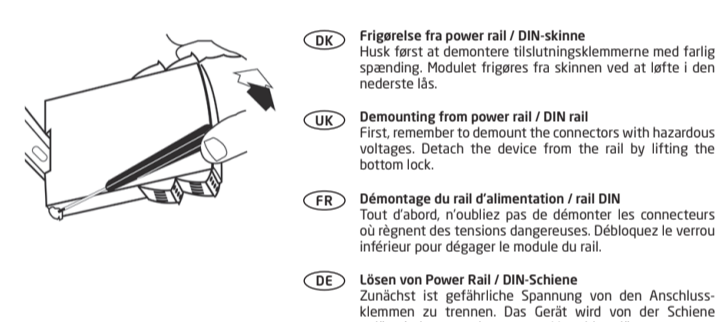

9410 电源模块 丹麥製造
 佩勒电子 (上海) 有限公司
 云岭东路 651 号 305 室
 普陀区, 上海 200062 中国



	DK	UK	FR	DE
A	Gnd	Gnd	Masse	Erde
B	Forsyning +21.6...26.4 VDC	Power supply +21.6...26.4 VDC	Alimentation de secours +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	Öffner



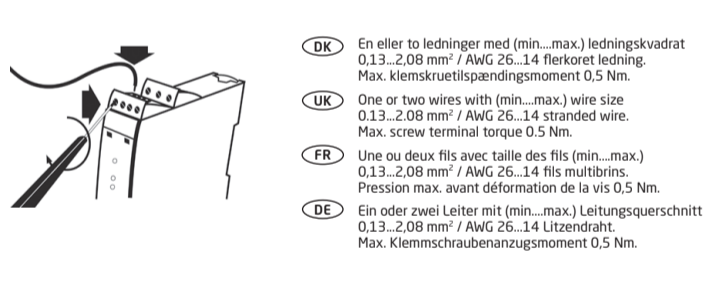
- DK** Montering på power rail / DIN-skinne.
- UK** Mounting on power rail / DIN rail.
- FR** Montage sur rail d'alimentation / rail DIN.
- DE** Montage auf Power Rail / DIN-Schiene.



- DK** **Frigørelse fra power rail / DIN-skinne**
 Husk først at demontere tilslutningsklemmerne med farlig spænding. Modulet frigøres fra skinnen ved at løfte i den nederste lås.
- UK** **Demounting from power rail / DIN rail**
 First, remember to demount the connectors with hazardous voltages. Detach the device from the rail by lifting the bottom lock.
- FR** **Démontage du rail d'alimentation / rail DIN**
 Tout d'abord, n'oubliez pas de démonter les connecteurs ou régime des tensions dangereuses. Débloquez le verrou inférieur pour dégager le module du rail.
- DE** **Lösen von Power Rail / DIN-Schiene**
 Zunächst ist gefährliche Spannung von den Anschlussklemmen zu trennen. Das Gerät wird von der Schiene gelöst, indem man den unteren Verschluss löst.

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

9410		
IECEx	[Ex ia Ga] IIC/IIA Ex ec nC IIC T4 Gc [Ex ia Da] IIC / [Ex ia Ma] I	IECEx KEM 08.0025X Installation Drawing: 9410QJ01
ATEX	II (1) G [Ex ia Ga] IIC/IIA/IIA II 3G Ex ec nC IIC T4 Gc I (1) D [Ex ia Da] IIC / (M1) [Ex ia Ma] I	KEMA 07ATEX 0152 X Installation Drawing: 9410QA01
UKEX	II 3 G Ex ec nC IIC T4 Gc	DEKRA 21UKEX0169 X Installation Drawing: 9410QA01
FM	Install in CL I, Div. 2, Gr. A-D T4 Provides IS circuits to CL I-III, Div. 1/2, Gr. A-G or CL I, Zn2 AEx/Ex nA nC [a] IIC T4	FM19S0056X / FM19CA0029X Installation Drawing: 9410QF01
INMETRO	[Ex ia Ga] IIC/IIA/IIA [Ex ia Da] IIC / [Ex ia Ma] I Ex ec nC IIC T4 Gc	DEKRA 16.0007X Installation Drawing: 9410QB01
UL (9410-U9)	Install in CL I DIV2 GP A-D T4 or CL I Zn2 Gp IIC T4	E233311 Installation Drawing: 9410QU01
CCC	Ex nA nC IIC T4 Gc	2020322303003230
KCs (9410-KCs)	Ex ec nC IIC T4 Gc Ex nA nC IIC T4	21-AV480-0185X



- DK** En eller to ledninger med (min...max.) ledningskvadrat 0.13...2.08 mm² / AWG 26...14 flerkort ledning. Max. klemskruetilspændingsmoment 0.5 Nm.
- UK** One or two wires with (min...max.) wire size 0.13...2.08 mm² / AWG 26...14 stranded wire. Max. screw terminal torque 0.5 Nm.
- FR** Une ou deux fils avec taille des fils (min...max.) 0.13...2.08 mm² / AWG 26...14 fils multibrins. Pression max. avant déformation de la vis 0.5 Nm.
- DE** Ein oder zwei Leiter mit (min...max.) Leitungsquerschnitt 0.13...2.08 mm² / AWG 26...14 Litzenadrah. Max. Klemmschraubenanzugsmoment 0.5 Nm.

- DK** Kina RoHS
- UK** China RoHS
- FR** RoHS chinois
- DE** China-RoHS

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

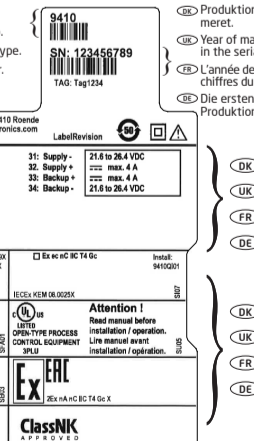
This table is prepared in accordance with the provisions of SJ/T 11364
 0: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.
 X: Indicates that said hazardous substance contained in at least one of the homogeneous 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 **50**

- DK** Sideskilt
- UK** Side label
- FR** Etiquette
- DE** Typenschild

Typennr. 9410
 Type no. 9410
 No. de type. 9410
 Typennr. 9410

Produktionsår fremgår af de to første cifre i serienummeret.
 Year of manufacture can be taken from the first two digits in the serial number.
 L'année de production est définie grâce aux deux premiers chiffres du numéro de série.
 Die ersten beiden Ziffern der Seriennummer geben das Produktionsjahr an.



DK Benforbindelser.

UK Pin connections.

FR Raccordement des bornes.

DE Klemmenanschluss.

DK Godkendelser.

UK Approvals.

FR Homologations.

DE Zulassungen.

- DK** Hvis modulet installeres som type Ex ec, skal installationstypen angives på etiketten med en permanent markering i den tilhørende boks.
- FR** Lorsque ce produit est installé selon une protection Ex ec, utilisez un marqueur indélébile dans la case appropriée pour indiquer le type d'installation sur l'étiquette.

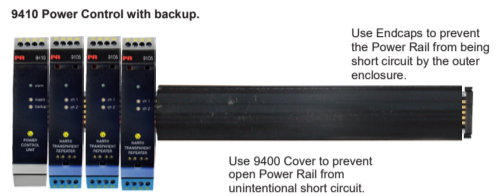
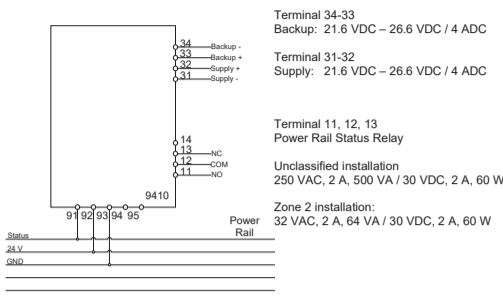
- UK** When this product has been installed as Ex ec, use a permanent marker in the appropriate box to indicate the type of installation on the label.
- DE** Wenn dieses Produkt mit der Schutzart Ex ec installiert wurde, verwenden Sie einen Permanentmarker im entsprechenden Feld, um die Verwendungsart der Installation auf dem Etikett zu kennzeichnen.

- DK** Dokumentation, godkendelser og yderligere information findes på internettet på www.prelectronics.dk
- UK** Documentation, 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
-

ATEX/UKEX Installation drawing 9410QA01-V5R0

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
UKEX Certificate DEKRA 21UKEX0169 X
Marking: II 3G Ex ec n IIC T4 Gc;
Standard: EN60079-0:2018, EN60079-1:2015+A1, EN60079-15:2010
Non Hazardous Area or Zone 2
T4: -20 °C < Ta < +60°C



General Installation Instructions
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
Wire stripping length 5mm
alternatively using bootlace ferrules or similar

Specific Condition of Use
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 III as defined in EN60664-1.

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-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.

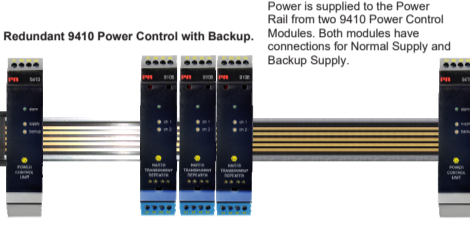
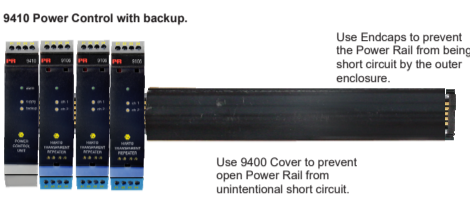
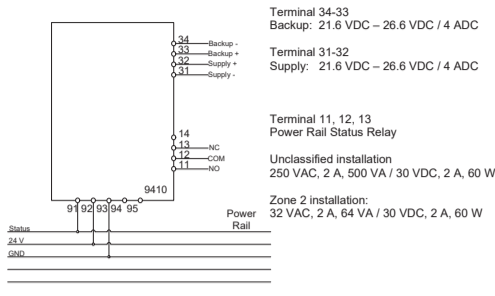
WARNING: Do not install or remove modules from the Power Rail unless Area is known to be Non Hazardous.

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

IECEx Installation drawing 9410QI01-V4R0

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 n 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



General Installation Instructions
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
alternatively using bootlace ferrules or similar

Specific Condition of Use
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 III 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-e or Ex-d.

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.

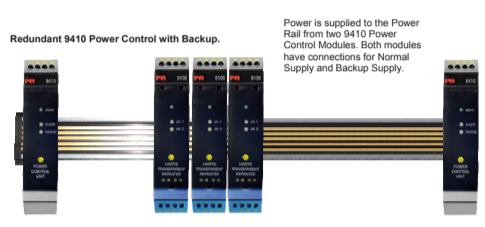
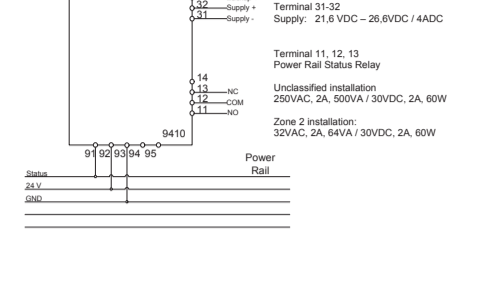
WARNING: Do not install or remove modules from the Power Rail unless Area is known to be Non Hazardous.

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

FM Installation drawing 9410QF01-V3R0

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.

9410 Power Control Unit
Non Hazardous Area or Division 2 / Zone 2
T4: -20 °C < Ta < +60°C



General Installation Instructions
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
alternatively using bootlace ferrules or similar

Specific Condition of Use
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 III 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-e or Ex-d.

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.

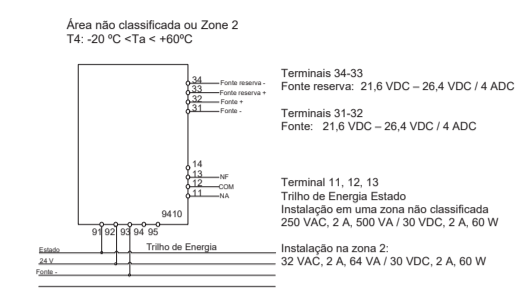
WARNING: Do not install or remove modules from the Power Rail unless Area is known to be Non Hazardous.

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

INMETRO Desenhos para Instalação 9410QB01-V5R0

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 número.

9410 UNIDADE DE Controle de Potência
INMETRO Certificado DEKRA 16.0007X
Marcas: Ex ec n IIC T4 Gc
Normas: ABNT NBR IEC60079-0:2013/2016, ABNT NBR IEC60079-15:2012, ABNT NBR IEC60079-07:2018
Área não classificada ou Zona 2
T4: -20 °C < Ta < +60°C



General Installation Instructions
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 encaixado
Torque terminal < 0.5 Nm

Specific Condition of Use
A unidade de controle de potência tipo 9410 e o tipo de trilho de energia 9400 devem ser instalados em um ambiente controlado com poluição adequadamente reduzida, limitada ao grau de poluição 2 ou melhor.
O circuito deve ser limitado à categoria de sobretensão I / II, conforme definido na IEC 60664-1.

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

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

Atenção: Não desconecte conectores quando energizado e uma mistura explosiva de gás estiver presente.

Atenção: Não instalar ou remover os módulos do trilho de energia a menos que área seja conhecida como área não classificada.

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

UL Installation drawing 9410QU01-V1R0

9410
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:
 Proc. Cont. Eq. for Use in Haz. Loc.
Install in CL I Div2 GP A-D T4 or CL I Div2 GP IIC T4
Installation Drawing: 9410QU01

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

Standards:
UL 121201 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 2018/08/31
CSA C22.2 NO. 215 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 2017/08/01

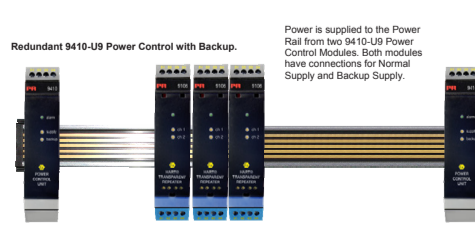
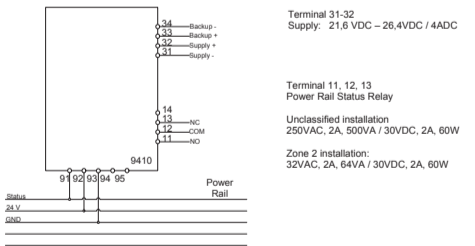
Installation notes 9410-U9
The module must be installed in a tool-secured enclosure suitable for the application in accordance with the National Electrical Code (ANSI/NFPA 70) for installation in the United States, the Canadian Electrical Code for installations in Canada, or other local codes, as applicable.
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 atmosphere, 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'inflammation d'atmosphères explosibles, déconnectez l'alimentation avant les opérations d'entretien. Ne montez pas ou n'enlevez pas les connecteurs quand 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.

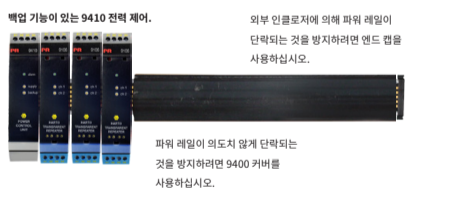
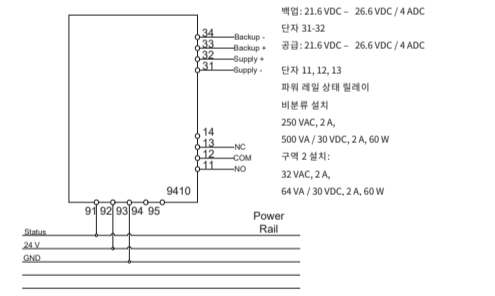
Non Hazardous Area or Zone 2
T4: -20 °C < Ta < +60°C



IECEx 설치 도면 9410QI01-V4R0

9410
9410의 안전한 설치를 위해 다음 사항을 준수해야 합니다. 이 모듈은 이 지역에 적용되는 국내 및 국제 법률, 지침 및 표준에 적합한 유자격자만 설치해야 합니다. 제조연도는 일련번호의 처음 두 자릿수입니다.

9410 전력 제어 장치
IECEx 인증서 IECEx KEM 08.0025 X
표기: Ex ec n IIC T4 Gc
표준: IEC60079-0:2017, IEC60079-15:2017, IEC60079-7:2017
비위험 지역 또는 구역 2
T4: -20 °C < Ta < +60°C



설치 참고 사항:
일반 사항
9410은 주 전원에 대하여 이중 또는 강화 절연이 있는 전원으로부터 공급 받아야 합니다.
단자 블록:
적어 크기 0.13-2.08 mm² / AWG 26-14 선선
나사 단자 토크 0.5 Nm

구역 2에 설치하는 경우
전력 제어 장치 유형 9410 및 파워 레일 유형 9400은 오염이 적절히 감소된 통제된 환경(구역 2 이상으로 제한)에 설치해야 합니다.
표준은 IEC 60664-1에 정의된 대로 과전압 범주 2로 제한해야 합니다.

9410 전력 제어 장치 및 9400 파워 레일은 명목 Ex-n 또는 Ex-e의 요구 사항을 준수하는 IP 보호가 IP54 이상인 외부 인클로저에 설치해야 합니다.

과도 현상은 정격 전압의 40%를 초과하지 않는 수준으로 설정된 내부 과도 보호 장치에 의해 억제됩니다.

경고: 전원이 공급되고 폭발성 가스 혼합물이 있는 경우, 케터터를 분리하지 마십시오.

경고: 지역에 위험하지 않은 것으로 알려진 경우가 아니면 파워 레일에 모듈을 설치하거나 제거하지 마십시오.

경고: 단자 91,92,93,94,95는 파워 레일 9400에만 연결될 수 있습니다.

EU DECLARATION OF CONFORMITY



(9410DoC_104)
As manufacturer PR electronics A/S, Lerbakken 10, DK 8410 Rande hereby declares that the following product:
Type: 9410
Name: Power control unit
From serial no.: 222089100
is in conformity with the following directives and standards:
The EMC Directive 2014/53/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 ATEX Directive 2014/34/EU and later amendments EN 60079-0: 2018, EN 60079-7: 2015 + A1: 2018 and EN 60079-15: 2019
ATEX notified body (type approval) DEKRA Certification B.V. Heander 1051, 6825 HJ Arnhem P.O. Box 5185, 6800 ED Arnhem The Netherlands
The RoHS2 Directive 2011/65/EU and later amendments EN IEC 63000 : 2018
Notified body 0344 DEKRA Certification B.V. Heander 1051, 6825 HJ Arnhem P.O. Box 5185, 6800 ED Arnhem The Netherlands
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rande, 2 February 2023

Sig Lindemann, CTO
Manufacturer's signature

UKCA DECLARATION OF CONFORMITY



(9410DoC_UKCA_100)
As manufacturer PR electronics A/S, Lerbakken 10, DK 8410 Rande hereby declares that the following product:
Type: 9410
Name: Power control unit
From serial no.: 222089100
is in conformity with the following statutory requirements:
The Electromagnetic Compatibility Regulations 2016 (UK SI 2016/1091) 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 Electrical Equipment (Safety) Regulations 2016 (UK SI 2016/1101) 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 2016/1107) and later amendments EN IEC 60079-0: 2018, EN 60079-7: 2015 + A1: 2018 and EN 60079-15: 2019
UK type examination certificate: DEKRA 21UKEX0169 X
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2012/3032) and later amendments EN IEC 63000 : 2018
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Rande, 2 February 2023

Sig Lindemann, CTO
Manufacturer's signature