

CERTIFICATE

(1) **Type Examination**

(2) **Product or Protective System intended for use in potentially explosive atmospheres - UKSI 2016:1107 (as amended) - Schedule 3A, Part 6**

(3) Type Examination Certificate Number: **DEKRA 21UKEX0169X** Issue Number: **0**

(4) Product: **Power Control Unit Type 9410**

(5) Manufacturer: **PRElectronics A/S**

(6) Address: **Lerbakken 10, 8410 Rønede, Denmark**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations 2016, UKSI 2016:1107 (as amended).

The examination and test results are recorded in confidential report NL/KEM/ExTR08.0021/06.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-7 : 2015 + A1 : 2018

EN IEC 60079-15 : 2019

except in respect of those requirements listed at item 18 of the Schedule to this certificate.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:



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Date of certification: 8 June 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 21UKEX0169X**

Issue No. **0**

(15) **Description**

Power Control Unit Type 9410 is used to distribute supply voltage to Power Rail Type 9400 on which it is mounted.

The Control Unit is connected to an external power supply and optionally to a backup power supply.

The Control Unit detects errors from the modules mounted on the rail and provides a collective status alarm via a potential free contact.

Ambient temperature range: -20 °C to +60 °C.

Electrical data

Power Supply (terminals 31, 32): $U = 21,6 \dots 26,6 \text{ Vdc / Adc}$.

Backup Power Supply (terminals 33, 34): $U = 21,6 \dots 26,6 \text{ Vdc / 4 Adc}$.

Power Rail (rear contacts): $U = 21,6 \dots 26,6 \text{ Vdc}$ (with transient suppression to 40 V)

Power Rail Status Relay (terminals 11, 12, 13): $U \leq 30 \text{ Vdc}$ or 32 Vac , $I \leq 2 \text{ A}$

If the Control Unit is installed outside the hazardous area, the following data for the relay contacts apply:

$U \leq 30 \text{ Vdc}$ or 250 Vac , $I \leq 2 \text{ A}$

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR08.0021/06.

(17) **Specific conditions 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 I/II as defined in EN 60664-1.

The Power Control Unit Type 9410 and Power Rail Type 9400 shall be installed in a suitable enclosure having an IP protection of at least IP54, conforming to the requirements of type of protection Ex n or Ex e.

(18) **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, compliance with all other requirements is demonstrated in the report.

(19) **Test documentation**

As listed in Report number NL/KEM/ExTR08.0021/06.