

# CERTIFICATE

## (1) UK Type Examination

(2) **Product or Protective System Intended for use in Potentially Explosive Atmospheres - UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

(3) UK Type Examination Certificate Number: **DEKRA 22UKEX0117X** Issue Number: **0**

(4) Product: **Digital Input Output Module (DIOM) Type 947\*/35-16-1\***

(5) Manufacturer: **R. STAHL Schaltgeräte GmbH**

(6) Address: **Am Bahnhof 30, 74638 Waldenburg, Germany**

(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 UK Ltd., Approved Body number 8505 in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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.

The examination and test results are recorded in confidential report EX22080001-001 issue 0.

(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 60079-11 : 2012**

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

(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 UK Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



**II 3 (1) G Ex ec ic [ia Ga] IIC T4 Gc**

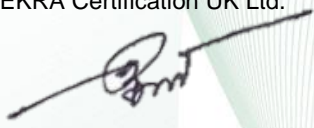
*Type 947z/35-16-1f  
z = 1, 2; f = 0, 1, 2*

Date of certification: 10 October 2022



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DEKRA Certification UK Ltd.

  
Certification Manager

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(13) **SCHEDULE**

(14) **to UK Type Examination Certificate DEKRA 22UKEX0117X**

Issue No. 0

(15) **Description**

Digital Input Output Module (DIOM) Type 947\*/35-16-1\*, for operation in the Remote I/O Systems IS1 and IS1+. The module is connected to the system via a Bus Rail.

The DIOM type 9471/35-16-1\* provides 16 non-intrinsically safe input and/or output channels (configurable) for connection and supply of up to 16 potential free contacts or 2 wire proximity switches (according to NAMUR) or up to 16 low power valves or indicators or any mixture of input and output channels. Channels 8 to 15 can also be used for frequency measurement or as pulse counters.

The DIOM type 9472/35-16-1\* in addition to the DIOM type 9471/35-16-1\* provides connection for 3-wire proximity switches and more output power and is equipped with a "Plant Stop" input, to shut down all outputs simultaneously.

The non-intrinsically safe input/output circuits are infallibly galvanically isolated from the IS1 and IS1+ bus supply and data circuits up to a peak voltage of 375 V.

Module type 947\*/35-16-1\* is in type of protection Ex ec ic and may be installed in an explosive gas atmosphere suitable for EPL Gc.

The enclosure of the module provides a degree of protection IP30 according to EN 60529.

The complete Digital Input Output Module (DIOM) Type 947\*/35-16-1\* may be disconnected or connected to the IS1 or IS1+ Bus Rail while in operation in hazardous area. However, it is not allowed to (dis)connect conductors at or the terminal blocks X0, X1, X2.

**Electrical data / Thermal data**

Refer to Annex 1 to ExTR NL/DEK/ExTR16.0012/01.

**Installation instructions**

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

(16) **Report Number**

EX22080001-001 issue 0.

(17) **Specific conditions of use**

When installed in an explosive gas atmosphere, the Digital Input Output Module (DIOM) Type 947\*/35-16-1\* shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1 and only be placed in an enclosure that meets the requirements of an appropriate, recognized type of protection in accordance with EN IEC 60079-0. The installation shall provide a degree of protection not less than IP54.

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

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

(13) **SCHEDULE**

(14) **to UK Type Examination Certificate DEKRA 22UKEX0117X**

**Issue No. 0**

(19) **Test documentation**

As listed in Report number EX22080001-001 issue 0.