

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 21UKEX0068X**

Issue Number: **0**

(4) Product: **Modular Industrial Communication Equipment (MICE); Industrial Ethernet Switches Series MS20 and MS30, Backplane Extension MB20 and Media Modules Series MM2x and MM3x**

(5) Manufacturer: **Hirschmann Automation and Control GmbH**

(6) Address: **Stuttgarter Strasse 45-51, 72654 Neckartenzlingen, 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 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/DEK/ExTR14.0086/02.

(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:



**II 3 G
II 3 G**

**Ex ec nC IIC T4 Gc (MS20, MS30),
Ex ec IIC T4 Gc**

Date of certification: 29 July 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

2716:5
Page 1/3

© Integral publication of this certificate and adjoining reports is allowed. This certificate and its schedules may only be reproduced in its entirety and without change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 22UKEX0068X**

Issue No. **0**

(15) **Description**

Modular Industrial Communication Equipment (MICE), consisting of Industrial Ethernet Switches Series MS20 and MS30, Backplane Extension MB20 and Media Modules Series MM2x and MM3x.

The rail mounted modules are intended for use in industrial automation applications and communicate via electrical or optical interfaces.

Ambient temperature range: 0 °C to +60 °C for Temperature range parameter "S"
-40 °C to +70 °C for Temperature range parameters "T" and "E"

Restriction to MM30 and MM31 Series: Ta maximum is +60 °C.

Restriction to MS20 and MS30 Series: Ta maximum is +45 °C.

Nomenclature:

See Annex 1 to Report No. NL/DEK/ExTR14.0086/02.

Marking

Switches Series MS20 and MS30:



Backplane extension MB20 and Media Modules Series MM2x and MM3x:



Electrical data

Supply: 18 ... 32 Vdc, 4,0 ... 2,25 A for voltage range parameter "A"
18 ... 60 Vdc, 4,0 ... 1,2 A for voltage range parameter "C"

Relay contacts (MS20 and MS30): Maximum 60 V, 100 mA resistive load.

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR14.0086/02.

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 22UKEX0068X**

Issue No. **0**

(17) **Specific conditions of use**

1. The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
2. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.
3. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

(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/DEK/ExTR14.0086/02.