



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx DEK 14.0078X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2021-02-11)
Date of Issue:	2022-07-29		Issue 1 (2019-11-19)
Applicant:	Hirschmann Automation and Control GmbH Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany		Issue 0 (2015-03-17)
Equipment:	Modular Industrial Communication Equipment (MICE); Industrial Ethernet Switch Series MS20 and MS30, Backplane Extension MB20 and Media Modules MM2x and MM3x Series		
Optional accessory:			
Type of Protection:	Ex ec, Ex nC		
Marking:	Ex ec nC IIC T4 Gc (MS20, MS30), Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2022-07-29

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





IECEx Certificate of Conformity

Certificate No.: **IECEx DEK 14.0078X**

Page 2 of 4

Date of issue: 2022-07-29

Issue No: 3

Manufacturer: **Hirschmann Automation and Control GmbH**
Stuttgarter Strasse 45-51
72654 Neckartenzlingen
Germany

Manufacturing
locations: **Hirschmann Automation and
Control GmbH**
Stuttgarter Strasse 45-51
72654 Neckartenzlingen
Germany

**Belden Hirschmann Industries
(Suzhou) Co.,Ltd**
#333, Yanhu Road, Huaqiao Town,
Kunshan City, Jiangsu Province
China

Belden India Pvt. Ltd.
Plot No. D-228/1 Chakan MIDC, Phase
II Village Bhamboli, Taluka- Khed
District Pune 410507
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR14.0086/02](#)

Quality Assessment Reports:

[NL/DEK/QAR14.0021/04](#)

[NL/DEK/QAR19.0010/01](#)

[NL/DEK/QAR20.0013/01](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx DEK 14.0078X**

Page 3 of 4

Date of issue: 2022-07-29

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Modular Industrial Communication Equipment (MICE); Industrial Ethernet Switch Series MS20 and MS30, Backplane Extension MB20 and Media Modules MM2x and MM3x Series.

The rail mounted modules are intended for use in industrial automation applications, 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:
Ex ec nC IIC T4 Gc

Backplane extension MB20 and Media Modules Series MM2x and MM3x:
Ex ec IIC T4 Gc

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.



IECEx Certificate of Conformity

Certificate No.: **IECEx DEK 14.0078X**

Page 4 of 4

Date of issue: 2022-07-29

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

change in Ex protection Ex nA -> Ex ec.
change in Ex protection to Ex ec nC for relay output
update using latest edition of the standards.
update of the specific conditions of use.
added a production location.

Annex:

[Annex1 NL-DEK-ExTR14.0086.02.pdf](#)