



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 20.0079X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2020-12-17)

Status: **Current** Issue No: 1

Date of Issue: 2021-08-25

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

Equipment: **Industrial Ethernet Rail Switch BOBCAT BRS Series**

Optional accessory:

Type of Protection: **ec and nc**

Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

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 20.0079X**

Page 2 of 4

Date of issue: 2021-08-25

Issue No: 1

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

Additional manufacturing locations: **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/ExTR20.0088/01](#)

Quality Assessment Reports:

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

[NL/DEK/QAR19.0010/00](#)

[NL/DEK/QAR20.0013/00](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX DEK 20.0079X**

Page 3 of 4

Date of issue: 2021-08-25

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Industrial Ethernet Rail Switch BOBCAT BRS Series.

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

The electrical data, type code, the ambient temperature range and the temperature class of the modules shall be taken from Table 1, see Annex 1 to NL/DEK/ExTR20.0088/01.

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.



IECEX Certificate of Conformity

Certificate No.: **IECEX DEK 20.0079X**

Page 4 of 4

Date of issue: 2021-08-25

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of modules to the range of Industrial Ethernet Rail Switch BOBCAT.

Annex:

[225579400-ExTR20.0088.01-Annex 1.pdf](#)

Annex 1 to NL/DEK/ExTR20.0088.01

Table 1

BRS Industrial Ethernet Rail Switch Series

Product Code Table

Example	BRS	4	2	-	00	12	OO	OO	-	E	P	D	Z	W
Item	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV

9	HH	S	E	S	08.0.	00	-	NT
XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII

- I: (Pos. 1-3) Product designation
BRS BOBCAT Rail Switch
- II: (Pos. 4) Datarate
2 100 MBit/s Ethernet Ports
3 100 & 1000 MBit/s Ethernet Ports
4 1000 MBit/s Ethernet Ports
5 1000 & 2500 MBit/s Ethernet Ports
- III: (Pos. 5) Hardware Type
0 Standard
2 Standard + PoE
- IV: -
- V: (Pos. 7,8) Number of 100 Mbit/s Ports
00 0* 10/100 Mbit/s Ethernet Ports
04 4* 10/100 Mbit/s Ethernet Ports
05 5* 10/100 Mbit/s Ethernet Ports
06 6* 10/100 Mbit/s Ethernet Ports
08 8* 10/100 Mbit/s Ethernet Ports
09 9* 10/100 Mbit/s Ethernet Ports
10 10* 10/100 Mbit/s Ethernet Ports
11 11* 10/100 Mbit/s Ethernet Ports
12 12* 10/100 Mbit/s Ethernet Ports
16 16* 10/100 Mbit/s Ethernet Ports
20 20* 10/100 Mbit/s Ethernet Ports
24 24* 10/100 Mbit/s Ethernet Ports
- VI: (Pos. 9,10) Number of 1000 (2500) Mbit/s Ports
00 0 * 100/1000 Mbit/s Ethernet Ports
04 4 * 100/1000 Mbit/s Ethernet Ports
08 8 * 100/1000 Mbit/s Ethernet Ports
12 12 * 100/1000 Mbit/s Ethernet Ports or
8 * 100/1000 Mbit/s + 4 * 1000/2500 Mbit/s Ethernet Ports
16 12 * 100/1000 Mbit/s Ethernet Ports
20 20 * 100/1000 Mbit/s Ethernet Ports or
16 * 100/1000 Mbit/s + 4 * 1000/2500 Mbit/s Ethernet Ports
24 24 * 100/1000 Mbit/s Ethernet Ports or
20 * 100/1000 Mbit/s + 4 * 1000/2500 Mbit/s Ethernet Ports

Annex 1 to NL/DEK/ExTR20.0088.01

VII:	(Pos. 11,12)	First Uplink (Group)
	99	identical to the other ports / unavailable
	2T	2 x Twisted Pair / RJ45 (1000 MBit/s)
	M2	1 x Multimode / SC (100 MBit/s)
	M4	1 x Multimode / ST (100 MBit/s)
	S2	1 x Singlemode / SC (100 MBit/s)
	S4	1 x Singlemode / ST (100 MBit/s)
	E2	1 x Singlemode Plus / SC (100 MBit/s)
	L2	1 x Singlemode LH / SC (100 MBit/s)
	G2	1 x Singlemode LH / SC 200km
	Z6	1 x SFP Slot (100 MBit/s)
	MM	2 x Multimode / SC (100 MBit/s)
	NN	2 x Multimode / ST (100 MBit/s)
	VV	2 x Singlemode / SC (100 MBit/s)
	UU	2 x Singlemode / ST (100MBit/s)
	EE	2 x Singlemode Plus / SC (100 MBit/s)
	LL	2 x Singlemode LH / SC (100 MBit/s)
	GG	2 x Singlemode LH / SC 200km (100MBit)
	ZZ	2 x SFP Slot (100 MBit/s)
	OO	2 x SFP Slot (100/1000 MBit/s)
	2Q	2 x SFP Slot (100/1000/2500 MBit/s)
VIII:	(Pos. 13,14)	Second Uplink (Group)
	99	identical to the other ports / unavailable
	2T	2 x Twisted Pair / RJ45 (1000 MBit/s)
	M2	1 x Multimode / SC (100 MBit/s)
	M4	1 x Multimode / ST (100 MBit/s)
	S2	1 x Singlemode / SC (100 MBit/s)
	S4	1 x Singlemode / ST (100 MBit/s)
	E2	1 x Singlemode Plus / SC (100 MBit/s)
	L2	1 x Singlemode LH / SC (100 MBit/s)
	G2	1 x Singlemode LH / SC 200km
	Z6	1 x SFP Slot (100 MBit/s)
	MM	2 x Multimode / SC (100 MBit/s)
	NN	2 x Multimode / ST (100 MBit/s)
	VV	2 x Singlemode / SC (100 MBit/s)
	UU	2 x Singlemode / ST (100MBit/s)
	EE	2 x Singlemode Plus / SC (100 MBit/s)
	LL	2 x Singlemode LH / SC (100 MBit/s)
	GG	2 x Singlemode LH / SC 200km (100MBit)
	ZZ	2 x SFP Slot (100 MBit/s)
	OO	2 x SFP Slot (100/1000 MBit/s)
	2Q	2 x SFP Slot (100/1000/2500 MBit/s)
IX:	-	
X:	(Pos. 16)	Temperature range
	S	0°C --> +60°C
	C	0°C --> +60°C, conf. Coating
	T	-40°C --> +70°C
	E	-40°C --> +70°C, conf. Coating
	G	-40°C --> +70°C, conf. Coating, glued

Annex 1 to NL/DEK/ExTR20.0088.01

XI:	(Pos. 17)	Voltage range
	T	2x (12 - 24 VDC)
	U	2x 24 VDC
	F	2x (24 - 48 VDC + 24 VAC)
	P	2x (48VDC (POE) / 54VDC (POE+))
XII:	(Pos. 18)	Housing
	C	IP30 Plastic
	D	IP30 Metal
	E	IP40 Metal
XIII:	(Pos. 19)	Approvals/ Declarations Part A <i>(only for information)</i>
	Z	CE; FCC; EN61131; EN62368-1
	x	Further approvals/ declarations
XIV:	(Pos. 20)	Approvals/ Declarations Part B <i>(only for information)</i>
	W	ATEX/ IECEx
	x	Further approvals/ declarations
XV:	(Pos. 21)	Software Packages <i>(only for information)</i>
	9	Reserved
XVI:	(Pos. 22,23)	Customization <i>(only for information)</i>
	HH	Hirschmann
XVII:	(Pos. 24)	Technology <i>(only for information)</i>
	S	Standard
XVIII:	(Pos. 25)	Software Configuration <i>(only for information)</i>
	E	Empty
	P	PROFINET
XIX:	(Pos. 26)	Software Level <i>(only for information)</i>
	S	HiOS Layer 2 Standard
	A	HiOS Layer 2 Advanced
	B	HiOS Layer 2 Advanced (Dual RSTP Support)
XX:	(Pos. 27-31)	Software Version <i>(only for information)</i>
	08.0.	Software version 08.0
	xx.x.	Further software versions
XXI:	(Pos. 32,33)	Software Maintenance <i>(only for information)</i>
	00	Maintenance version 00
	xx	Further maintenance versions
XXII:	-	
XXIII:	(Pos. 35,36)	Production Location
	NT	Neckartenzlingen (Germany)
	SZ	Suzhou (China)
	PN	Pune (India)

Note: x = any letter or number