

Hirschmann Automation and Control GmbH
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Germany

Lloyd's Register EMEA

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Your ref
Our ref HPC 1962099/39238-19/TW/AC

Attention: Interim LR Type Approval letter

19 Dezember 2019

Dear Sirs,

Please kindly note this letter confirms that the below subject product, manufactured by Hirschmann Automation and Control GmbH has met satisfactorily relevant requirements of Lloyd's Register LR Type Approval Procedure, TA 14 and relevant Classification Rules as found applicable.

PRODUCER Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
72654 Neckartenzlingen
Germany

DESCRIPTION Industrial Ethernet BOBCAT rail switch

TYPES BRS20/30/40/50

Digit	Attribute	Identification	Feature
1 to 3	Product	BRS	BOBCAT Rail Switch
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
5	Hardware Typ	0	Standard
6	Hyphen	-	
7 to 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

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9 to 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
11 to 12	1. + 2. Uplink Port	99	not configurable
		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)
13 to 14	3. + 4. Uplink Port	99	not configurable
		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)
		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)
15	Hyphen	-	
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
17	Voltage range	T	2 x (12 - 24 VDC)
		F	2 x (24 - 48 VDC + 24 VAC)
18	Housing	C	IP30 Plastic
		E	IP40 Metall

19 to 20	Approvals/ Declarations Part A	S9	CE; FCC; EN61131; EN62368-1 + Expanded Ship Approvals
		XX	Any letter, depending on approvals and/or declarations
21	Software Packages	9	Reserved
22 to 23	Customization	HH	Hirschmann
		XX	Any letter, depending on customization
24	Technology	S	Standard
25	Software Configuration	E	Empty
26	Software Level	S	HiOS Layer 2 Standard
		A	HiOS Layer 2 Advanced
		B	DRS
27 ... 31	Software version	XX.X.	Software version (see Software release#)
32 ... 33	Maintenance	XX	Any letter, depending on maintenance
34	Hyphen	-	
35 ... 36	Production location	NT	Neckartenzlingen
		XX	Further manufacturing places

HiOS Software release: 07.x

HiOS Software release: 08.x

Accessories:

Auto Configuration Adapter: ACA22-USB-C (EEC)

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and category ENV3 for nomenclature value at position 16 "T" or "E" (general power distribution zones) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – March, 2019.

STANDARD

EN 55032:2015 Class A

EN 61000-6-2:2005

EN 61131-2: 2007

EN 50121-4:2016

OTHER CONDITIONS

For installation on bridge and deck zone, the provided ferrite core is mandatory on power supply cable.

The Design Appraisal Document No. HTS 39237-19 and its supplementary Type Approval Terms and Conditions form part of this interim LR Type Approval letter.

This approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations and any project related plan approval process as found necessary.

This approval letter is valid until the final certificate will be issued when Lloyd's Register New global Database is successfully implemented.

Lloyd's Register is to be notified of any change that may affect the validity of this approval.

We regret any inconvenience caused and hope this letter will find your understanding bridging the gap until the new final LR Type Approval Certificate format will be issued.

Yours sincerely,

 Lloyd's
Register

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