

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER	BARTEC GmbH
PLACE OF PRODUCTION	Max-Eyth-Strasse 16 97980 Bad Mergentheim Germany
DESCRIPTION	Heating System
TYPES	PSB Heating system type 27-1680-①②③④/ ① Rated voltage: 0, 1 ② Housing: 1, 2, 3, 9 ③ Technology: 1, 2, 3 ④ User-specific markings

Comprising the following components:


Self-limiting heating tape, rated voltage 120Vac:

PSB 10	type: 07-5801-1105/6
PSB 13	type: 07-5801-1135/6
PSB 15	type: 07-5801-1155/6
PSB 26	type: 07-5801-1265/6
PSB 33	type: 07-5801-1335/6

Self-limiting heating tape, rated voltage 254Vac:

PSB 10	type: 07-5801-2105/6
PSB 13	type: 07-5801-2135/6
PSB 15	type: 07-5801-2155/6
PSB 26	type: 07-5801-2265/6
PSB 33	type: 07-5801-2335/6

Certificate No.	10/20048
Issue Date	06 December 2010
Expiry Date	05 December 2015
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Thorsten Wolff
Hamburg Design Support Centre
Lloyd's Register EMEA

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71 Fenchurch Street, London EC3M 4BS

TYPES CONTINUATION

Connection kit:
05-0091-0130
05-0091-0136
PLEXO B-P, P-CN, P-CW, P-CA
PLEXO P-S
PLEXO P-1S, P-2S

HSB Heating system type 27-1780-①②③④/④

- ① Rated voltage: 0, 1
- ② Housing: 1, 2, 3, 9
- ③ Technology: 0, 1, 2, 3, 4
- ④ User-specific markings

Comprising the following components:

Self-limiting heating tape, rated voltage 120Vac:

HSB 10	type: 07-5803-110A
HSB 15	type: 07-5803-115A
HSB 25	type: 07-5803-125A
HSB 30	type: 07-5803-130A
HSB 45	type: 07-5803-145A
HSB 60	type: 07-5803-160A

Self-limiting heating tape, rated voltage 254Vac:

HSB 10	type: 07-5803-210A
HSB 15	type: 07-5803-215A
HSB 25	type: 07-5803-225A
HSB 30	type: 07-5803-230A
HSB 45	type: 07-5803-245A
HSB 60	type: 07-5803-260A

Connection kit:

05-0091-0096
05-0091-0129
05-0091-0135
PLEXO B-H, H-CN, H-CW, H-CA
PLEXO H-S
PLEXO H-1S, H-2S

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APPLICATION	Heating system for use in hazardous and non-hazardous areas.
ADDITIONAL TESTS	EC-Type Examination Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 94/9/EC PSB heating system: II 2 G Ex e II T5, T6 II 2 D Ex tD A21 IP65 T 95 °C, T 80 °C HSB heating system: II 2 G Ex e II 200 °C (T2), T3, T4 II 2 D Ex tD A21 IP65 T 200 °C, T 195 °C, T 130 °C
SPECIFIED STANDARD	Manufacturer's specification
OTHER CONDITIONS	Ratings for application in hazardous areas are to be obtained from certificate Nos.: KEMA 08ATEX0111 dated 21.12.2009, KEMA 02ATEX2326 U dated 07.09.2009, KEMA 08ATEX0110 dated 21.12.2009, KEMA 02ATEX2327 U dated 07.09.2007.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. ETS 24102-10 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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