



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312312000119

Applicant Heat Trace Asia Ltd
Address B410, No.189 Xijunhuan Road, Minhang, Shanghai, China
Manufacturer Heat Trace Limited
Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Production Factory Heat Trace Limited
Production Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Product Self-Regulating Heating Cables
Model/Type **FSR**-**
Ex marking Ex eb IIC T4/T6 Gb
Reference Standards GB/T 3836.1-2021, GB/T 3836.3-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (6 pages).

Initial issue date: 2021-01-05

Issued date: 2022-10-26

Valid to: 2026-01-04

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:

穆大玉



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co., Ltd.



<http://www.ccc-cnex.com>
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CN 0001429



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Product information:

1. This certificate covers the following models:

- **FSR**-**

Nomenclature:

**	FSR	*	-	*	*
a	b	c		d	e

a: Normal output power

b: Type: FSR

c: Voltage

1: up to 199V AC

2: 200~277V AC

d: Continuous Conductive Covering

C: Tinned Copper Braid

A: Aluminium

e: Optional outer jacket

F: Fluoropolymer Jacket

T: Thermoplastic Jacket

Technical data:

Description	Temperature
Max. continuous exposure temperature (Power ON)	85℃
Max. permissible exposure temperature (Power OFF)	85℃
Minimum installation temperature	-40℃

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Type	Power Output @10°C	Rated Voltage	Ex marking	Ingress Protection
10FSR1-C	10W/m	115V	Ex eb IIC T6 Gb	IP67
17FSR1-C	17W/m	115V	Ex eb IIC T6 Gb	
25FSR1-C	25W/m	115V	Ex eb IIC T6 Gb	
31FSR1-C	31W/m	115V	Ex eb IIC T6 Gb	
40FSR1-C	40W/m	115V	Ex eb IIC T4 Gb	
10FSR2-C	10W/m	230V	Ex eb IIC T6 Gb	
17FSR2-C	17W/m	230V	Ex eb IIC T6 Gb	
25FSR2-C	25W/m	230V	Ex eb IIC T6 Gb	
31FSR2-C	31W/m	230V	Ex eb IIC T6 Gb	
40FSR2-C	40W/m	230V	Ex eb IIC T4 Gb	
10FSR1-CT	10W/m	115V	Ex eb IIC T6 Gb	
17FSR1-CT	17W/m	115V	Ex eb IIC T6 Gb	
25FSR1-CT	25W/m	115V	Ex eb IIC T6 Gb	

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31FSR1-CT	31W/m	115V	Ex eb IIC T6 Gb
40FSR1-CT	40W/m	115V	Ex eb IIC T4 Gb
10FSR2-CT	10W/m	230V	Ex eb IIC T6 Gb
17FSR2-CT	17W/m	230V	Ex eb IIC T6 Gb
25FSR2-CT	25W/m	230V	Ex eb IIC T6 Gb
31FSR2-CT	31W/m	230V	Ex eb IIC T6 Gb
40FSR2-CT	40W/m	230V	Ex eb IIC T4 Gb
10FSR1-CF	10W/m	115V	Ex eb IIC T6 Gb
17FSR1-CF	17W/m	115V	Ex eb IIC T6 Gb
25FSR1-CF	25W/m	115V	Ex eb IIC T6 Gb
31FSR1-CF	31W/m	115V	Ex eb IIC T6 Gb
40FSR1-CF	40W/m	115V	Ex eb IIC T4 Gb
10FSR2-CF	10W/m	230V	Ex eb IIC T6 Gb
17FSR2-CF	17W/m	230V	Ex eb IIC T6 Gb
25FSR2-CF	25W/m	230V	Ex eb IIC T6 Gb

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31FSR2-CF	31W/m	230V	Ex eb IIC T6 Gb
40FSR2-CF	40W/m	230V	Ex eb IIC T4 Gb
10FSR1-A	10W/m	115V	Ex eb IIC T6 Gb
17FSR1-A	17W/m	115V	Ex eb IIC T6 Gb
25FSR1-A	25W/m	115V	Ex eb IIC T6 Gb
31FSR1-A	31W/m	115V	Ex eb IIC T6 Gb
40FSR1-A	40W/m	115V	Ex eb IIC T4 Gb
10FSR2-A	10W/m	230V	Ex eb IIC T6 Gb
17FSR2-A	17W/m	230V	Ex eb IIC T6 Gb
25FSR2-A	25W/m	230V	Ex eb IIC T6 Gb
31FSR2-A	31W/m	230V	Ex eb IIC T6 Gb
40FSR2-A	40W/m	230V	Ex eb IIC T4 Gb
10FSR1-AT	10W/m	115V	Ex eb IIC T6 Gb
17FSR1-AT	17W/m	115V	Ex eb IIC T6 Gb
25FSR1-AT	25W/m	115V	Ex eb IIC T6 Gb

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40FSR1-AT	40W/m	115V	Ex eb IIC T4 Gb
10FSR2-AT	10W/m	230V	Ex eb IIC T6 Gb
17FSR2-AT	17W/m	230V	Ex eb IIC T6 Gb
25FSR2-AT	25W/m	230V	Ex eb IIC T6 Gb
31FSR2-AT	31W/m	230V	Ex eb IIC T6 Gb
40FSR2-AT	40W/m	230V	Ex eb IIC T4 Gb
10FSR1-AF	10W/m	115V	Ex eb IIC T6 Gb
17FSR1-AF	17W/m	115V	Ex eb IIC T6 Gb
25FSR1-AF	25W/m	115V	Ex eb IIC T6 Gb
31FSR1-AF	31W/m	115V	Ex eb IIC T6 Gb
40FSR1-AF	40W/m	115V	Ex eb IIC T4 Gb
10FSR2-AF	10W/m	230V	Ex eb IIC T6 Gb
17FSR2-AF	17W/m	230V	Ex eb IIC T6 Gb
25FSR2-AF	25W/m	230V	Ex eb IIC T6 Gb

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31FSR2-AF	31W/m	230V	Ex eb IIC T6 Gb	
40FSR2-AF	40W/m	230V	Ex eb IIC T4 Gb	

Ex marking: Ex eb IIC T4/T6 Gb.

- Producers should organize production in accordance with the technical documents approved by the certification body.
2. Specific conditions of safety use:
- Withstand temp range: -40°C to +85°C.
 - The cable is intended to be cut to length on site and the equipment is designed to be connected to a supply by means of suitable certified cable entries and junction boxes (i.e. Ex eb or Ex db) in accordance with the manufacturer's installation instructions. termination can be made using the Heat Trace termination kits or any suitably certified type termination kit which fully isolate, insulate and seal the conductive cores.
 - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2009C519, CQST2009C519/01
 - Factory inspection report: CN2020Q010179
4. Certificate change information:
- 1st change on October 26, 2022: Updated the standards for certification.

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