

# Super High Temperature Self-Regulating Trace Heater



The versatile self-regulating trace heater ELSR-SHH is for high temperatures up to 250 °C in industrial applications. It is also suited and approved for use in hazardous areas. This trace heater withstands aggressive chemicals, oil and fuel and, thanks to this high chemical resistance, stands out for a long life span.

#### Advantages:

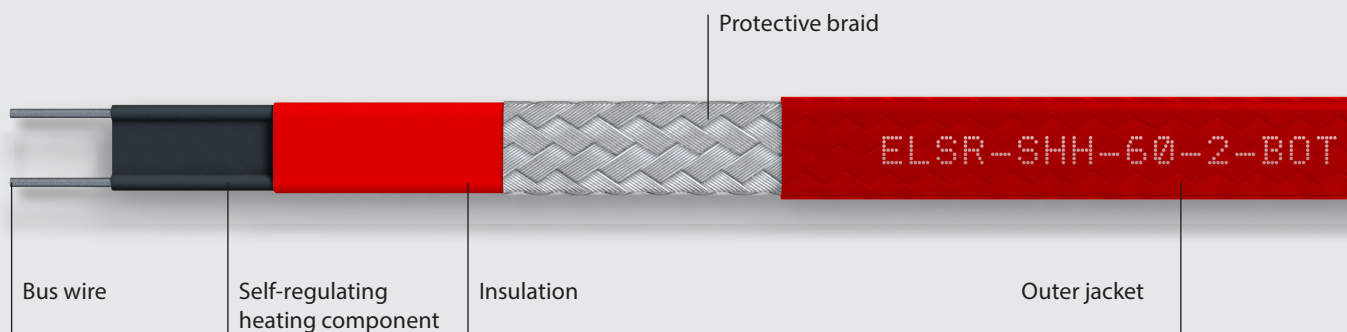
- Up to 250 °C
- Self-regulating
- Five nominal outputs
- Cut to length off the drum
- Moisture-proof
- Resistant to chemicals
- Approved for use in hazardous areas

#### Applications:

- Chemical & petrochemical industries
- Oil & gas industry
- Power plants
- Ex-areas
- Frost protection
- Water and sewage facilities
- Temperature maintenance on vessels, pipes & valves



## Type ELSR-SHH up to 250 °C





## Technical Information

### Data

■ Outer jacket	Fluoropolymer
■ Bus wire	Nickel-plated copper
■ Maximum exposure temperature (power off)	250 °C
■ Maximum exposure temperature (power on)	250 °C
■ Nominal voltage	230 VAC*
■ Bending radius, min.	35 mm
■ Installation temperature, min.	- 40 °C
■ Temperature classification	
- ELSR-SHH 15, 30, 45, 60:	T3
- ELSR-SHH 75:	T2
■ Cable classification	II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db
■ System classification	II 2G Ex eb IIC T3 Gb II 2D Ex tb IIIC T200°C Db
■ Certification	EPS17ATEX1169X IECEX EPS 17.0064X SIRA16ATEX3353

\* Data for 277 VAC on request

Heating circuit lengths ELSR-SHH-...-2-BOT on the following conditions:

- 230 V nominal voltage
- Delayed action circuit breakers (C-characteristic) with 80 % max. load
- Maximum 10 % line voltage drop on the heating cable bus wire
- Power connection to one (1) heater end

### Heating Circuits

Switch-on temperature (°C)	Nominal output (A)	Heating circuit length for (m) ELSR-SHH-				
		15-2	30-2	45-2	60-2	75-2
10	10	76,0	52,0	38,0	24,0	14,0
	16	122,0	82,0	62,0	38,0	24,0
	20	154,0	102,0	76,0	46,0	28,0
	32	154,0	108,0	88,0	76,0	46,0
0	10	70,0	46,0	32,0	18,0	12,0
	16	112,0	74,0	52,0	30,0	18,0
	20	140,0	92,0	66,0	36,0	22,0
	32	146,0	104,0	84,0	58,0	36,0
-20	10	62,0	40,0	24,0	12,0	8,0
	16	98,5	66,0	38,0	20,0	12,0
	20	122,5	82,0	46,0	26,0	16,0
	32	138,5	98,0	76,0	42,0	24,0
-40	10	52,0	30,0	14,0	8,0	4,0
	16	82,0	50,0	24,0	12,0	8,0
	20	102,0	62,0	28,0	16,0	10,0
	32	126,0	88,0	46,0	24,0	14,0

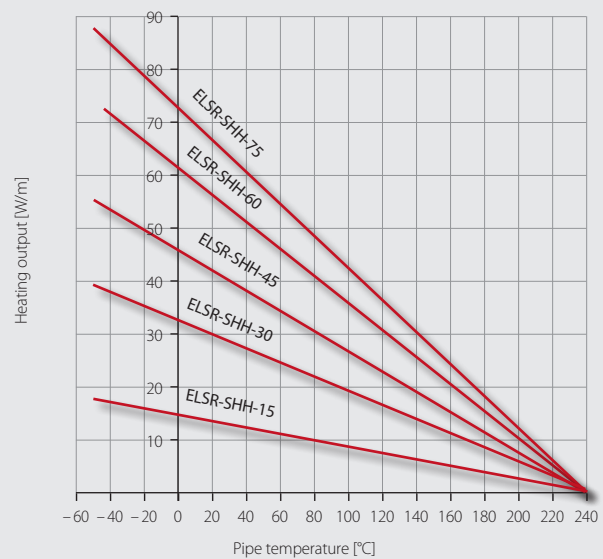
## Type ELSR-SHH to 250 °C

### Design

BOT Protective braid and a fluoropolymer outer jacket

### ELSR-SHH-...-2-BOT output

(on insulated metallic pipes in accordance with EN 62395-1)



### Nominal Output

Type	Nominal Output	Dimensions approx. (mm)	Weight approx. (g/m)	Art.-Nr.
ELSR-SHH-15-2-BOT	15 W/m bei 10 °C	12,1 x 5,4	146	B0HH1153
ELSR-SHH-30-2-BOT	30 W/m bei 10 °C	12,1 x 5,4	146	B0HH1303
ELSR-SHH-45-2-BOT	45 W/m bei 10 °C	12,1 x 5,4	146	B0HH1453
ELSR-SHH-60-2-BOT	60 W/m bei 10 °C	12,1 x 5,4	146	B0HH1603
ELSR-SHH-75-2-BOT	75 W/m bei 10 °C	12,1 x 5,4	146	B0HH1753

### Accessories

Connection & termination kits		
	Ref. No.	Description
	OX81PA1	ELVB-SREx-25 connection kit
	OX81EH2	EL-ECSH-ex termination kit