

## At a Glance

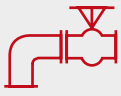
### Applications



Freeze prevention



Temperature maintenance



Valves, pumps



Silos, vessels, tanks

- › Chemistry and Petrochemistry
- › Oil and Gas Industry
- › Power plants
- › Water and sanitation utilities

### Benefits

- › Seven nominal outputs
- › Moisture proof
- › Resistant to chemicals
- › Use in hazardous areas

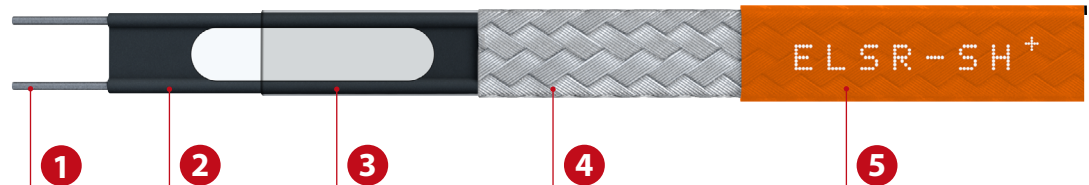
### Design

- BOT** Protective braid, Fluoropolymer outer jacket

### Approvals

# ELSR-SH<sup>+</sup>

up to 250°C



<b>1</b> Bus wire	Nickel plated copper, 1.23 mm <sup>2</sup>
<b>2</b> Self-regulating heating element	
<b>3</b> Insulation	Fluoropolymer
<b>4</b> Protection	Protective braid (Cu, nickel plated)
<b>5</b> Outer jacket	Fluoropolymer

## Checklist ELSR-SH<sup>+</sup>

### Power Connection & End Termination

EL-ECSH-Ex	Silicone termination cap, red, cold assembly, with ex marking	0X81EH2
Ex-Con-SR	Ex connection sleeve Ø 36 x 210 mm 4J	0X81125
ELVB-SREx-SH+-20	Power connection, cold assembly, gland M20, brass, Ex d e	0X81SP1
ELVB-SREx-25	Power connection, cold assembly, gland M25 x 1,5, PE, Ex e	0X81PA1
ELVB-SREx-IT	Power connection, cold assembly, without gland	091AIT1
ELVB-SRV-H	Splice set, shrink-fit	0911117
ELVB-SRA-25	Power connection, cold assembly, gland M25 x 1,5, PE	091A010

### Junction Boxes

ELAK-Ex-2.00	110 x 75 x 57 mm, polyester, IP66, 1 Trace heater, 1 Power cable	0X85200
ELAK-Ex-4.01	122 x 120 x 90 mm, polyester, IP66, 1 - 3 Trace heaters, 1 Power cable	0X85401
ELAK-5	122 x 120 x 90 mm, polyester, 3 breakouts M25, IP 66	0920013
Ex-it-R	Ø 150 x 125 mm, 3 Trace heaters, 1 Pt100, incl. mounting stand	0X80070
Ex-It-R-T	Ø 150 x 125 mm, 3 Trace heaters, splice or T-connection	0X80082
ELAK-RS	Ø 150 x 125 mm, 3 Trace heaters, 1 Pt100, incl. mounting stand	0920050
ELAK-RS-T	Ø 150 x 125 mm, 3 Trace heaters, splice or T-connection	0920059

## Technical Information

Max. continuous exposure temperature (power on)	185 °C
Max. continuous exposure temperature (power off)	250 °C
Nominal voltage* <sup>1</sup>	230 VAC / 120 VAC
Min. Bending radius	25 mm
Min. Installation temperature	- 60 °C

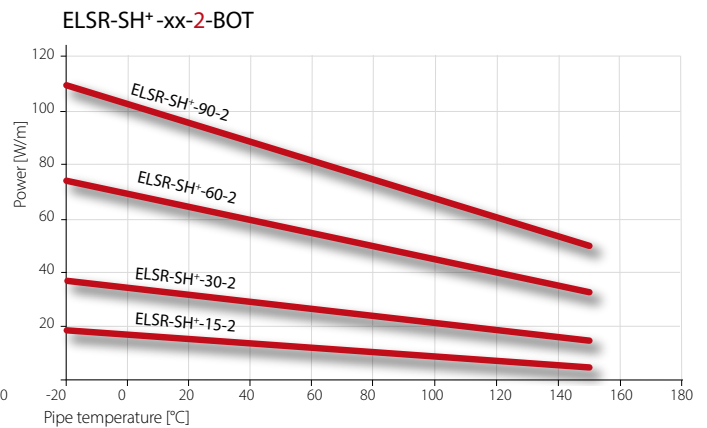
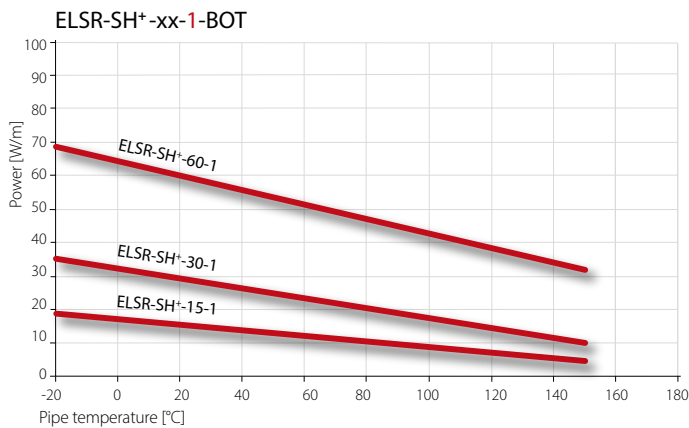
### Heating Circuit Length

Switch on temperature [°C]	Nominal fuse rating [A]	Heating circuit length* <sup>1</sup> [m]							
		ELSR-SH+ -15-2-BOT	ELSR-SH+ -30-2-BOT	ELSR-SH+ -60-2-BOT	ELSR-SH+ -90-2-BOT	ELSR-SH+ -15-1-BOT	ELSR-SH+ -30-1-BOT	ELSR-SH+ -60-1-BOT	ELSR-SH+ -90-1-BOT
-30	16	135	75	45	18	65	40	20	
0	16	150	85	48	22				
10	16	150	90	50	25				

\*<sup>1</sup> Heating circuit lengths on the following conditions

- 230 VAC (Type B0310XX3), 120 VAC (Type B0310XX1)
- Delayed action circuit breakers (C-characteristic) with 80 % max. load
- Maximum 10 % line voltage drop on heating cable bus wire
- Power connection to one heater end

### Power Output ELSR-SH+ (on insulated metallic pipes in accordance with EN 62395-1)



## Ordering Information

Type	Nominal output [@ 10°C / @120V;230V]	WxH approx. [mm]	Weight approx. [g/m]	Article - N°.
ELSR-SH+ 15-1-BOT	16 W/m	13.5 x 5.0	150	B0310151
ELSR-SH+ 30-1-BOT	33 W/m	13.5 x 5.0	150	B0310301
ELSR-SH+ 60-1-BOT	66 W/m	13.5 x 5.0	150	B0310601
ELSR-SH+ 15-2-BOT	16 W/m	13.5 x 5.0	150	B0310153
ELSR-SH+ 30-2-BOT	33 W/m	13.5 x 5.0	150	B0310303
ELSR-SH+ 60-2-BOT	66 W/m	13.5 x 5.0	150	B0310603
ELSR-SH+ 90-2-BOT	98 W/m	13.5 x 5.0	150	B0310903