

## At a Glance

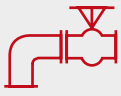
### Applications



Freeze prevention



Temperature maintenance



Valves, pumps



Silos, vessels, tanks

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

### Benefits

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

### Design

- BOT** Protective braid, Fluoropolymer outer jacket

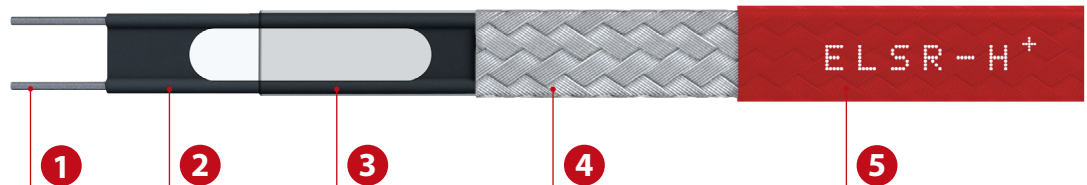
### Approvals



- › Trace Heater classification
  - II 2G Ex 60079-30-1 IIC Gb
  - II 2D Ex 60079-30-1 IIIC Db
- › Certification
  - IECEx EPS 12.0004 U
  - EPS 12 ATEX 1 429 U
  - IECEx EPS24.0030X
  - EPS 24 ATEX 1125X
- › Temperature class T3 (T4, T5, T6 by specific design)

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

up to 210°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-H<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)	165 °C
Max. continuous exposure temperature (power off)	210 °C
Nominal voltage*	230 VAC
Min. Bending radius	25 mm
Min. Installation temperature	- 60 °C

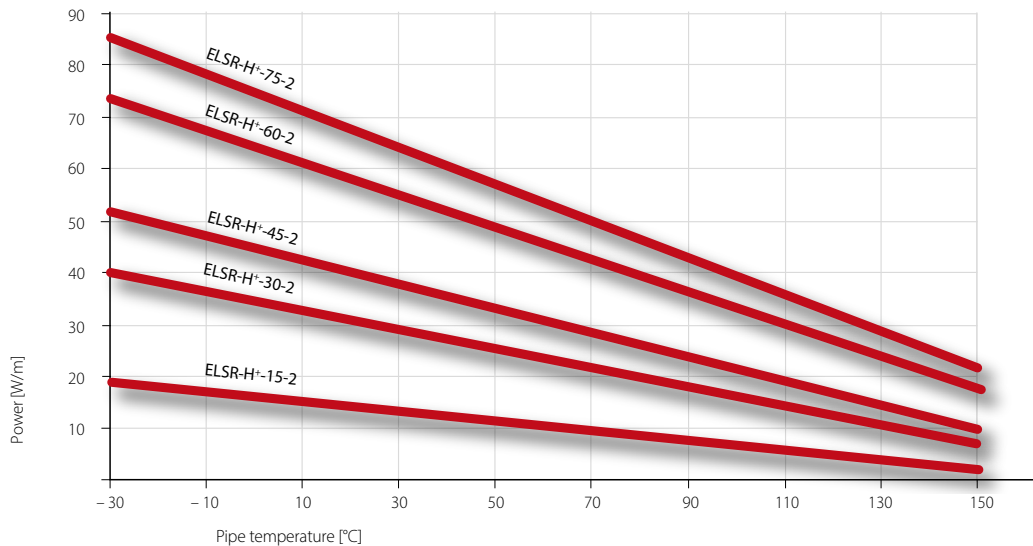
### Heating Circuit Length

Switch on temperature [°C]	Nominal fuse rating [A]	Heating circuit length*1 [m]				
		ELSR-H <sup>+</sup> - 15-2-BOT	ELSR-H <sup>+</sup> - 30-2-BOT	ELSR-H <sup>+</sup> - 45-2-BOT	ELSR-H <sup>+</sup> - 60-2-BOT	ELSR-H <sup>+</sup> - 75-2-BOT
10	16	159	82	65	43	33
0	16	155	78	43	38	30
-30	16	147	65	33	31	23

\*1 Heating circuit lengths on the following conditions

- 230 V nominal voltage
- 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-H<sup>+</sup> (on insulated metallic pipes in accordance with EN 62395-1)



## Ordering Information

Type	Nominal output [at 10°C / @230V]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-H <sup>+</sup> -15-2-BOT	15 W/m	14 x 5.0	150	B0300153
ELSR-H <sup>+</sup> -30-2-BOT	30 W/m	14 x 5.0	150	B0300303
ELSR-H <sup>+</sup> -45-2-BOT	45 W/m	14 x 5.0	150	B0300453
ELSR-H <sup>+</sup> -60-2-BOT	60 W/m	14 x 5.0	150	B0300603
ELSR-H <sup>+</sup> -75-2-BOT	75 W/m	14 x 5.0	150	B0300753