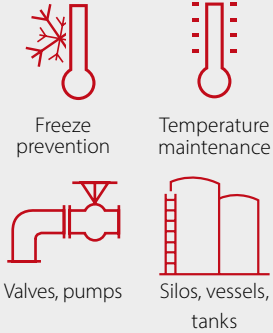


At a Glance

Applications



- › Chemistry and Petrochemistry
- › Oil and Gas Industry
- › Power plants

Benefits

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

Design

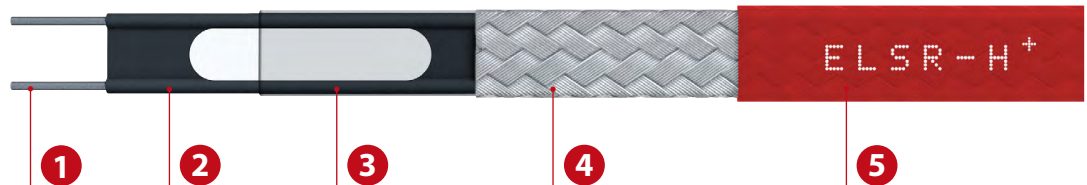
BOT Protective braid, Fluoropolymer outer jacket

Approvals



- › Trace Heater classification
 - II 2G Ex 60079-30-1 IIC Gb
 - II 2D Ex 60079-30-1 IIIC Db
- › System classification
 - II 2G Ex 60079-30-1 eb IIC T3...T6 Gb
 - II 2D Ex 60079-30-1 tb IIIC T200°C...T80°C 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⁺ up to 210°C



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

Checklist ELSR-H⁺

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-Ex-R7	ø 150 x 125 mm, 1 - 3 Trace heaters, 1 power cable	0X80077
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

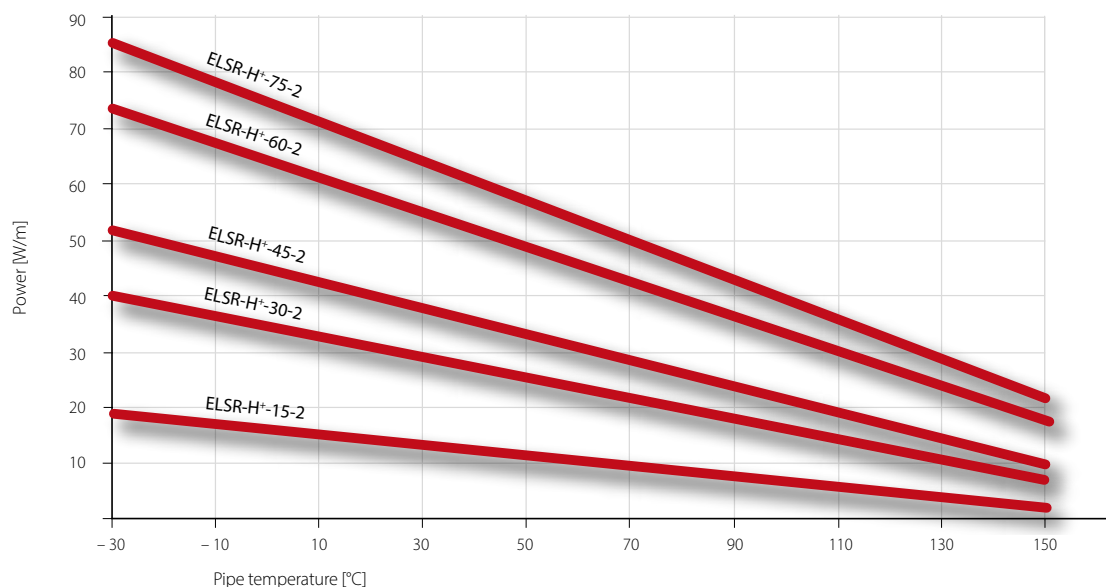
Heating Circuit Length

Switch on temperature [°C]	Nominal fuse rating [A]	Heating circuit length* ¹ [m]				
		ELSR-H+ -15-2-BOT	ELSR-H+ -30-2-BOT	ELSR-H+ -45-2-BOT	ELSR-H+ -60-2-BOT	ELSR-H+ -75-2-BOT
10	10	99	43	39	21	16
	16	156	69	63	34	26
	20	156	86	79	43	33
	25	156	104	91	54	41
	32	156	104	91	75	53
	40	156	104	91	75	66
0	10	93	41	37	20	16
	16	149	65	60	33	25
	20	154	82	75	41	31
	25	154	102	90	51	39
	32	154	103	90	66	51
	40	154	103	90	75	63
-10	10	83	37	34	18	14
	16	133	59	54	29	23
	20	153	74	68	37	29
	25	153	92	85	46	36
	32	153	102	89	59	46
	40	153	102	89	74	58
-30	10	79	35	32	18	14
	16	127	57	52	29	22
	20	150	70	65	36	28
	25	150	88	81	45	34
	32	150	100	88	58	45
	40	150	100	88	71	55

*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⁺ (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 - N°.
ELSR-H ⁺ -15-2-BOT	15 W/m	14.0 x 5.5	150	B0300153
ELSR-H ⁺ -30-2-BOT	30 W/m	14.0 x 5.5	150	B0300303
ELSR-H ⁺ -45-2-BOT	45 W/m	14.0 x 5.5	150	B0300453
ELSR-H ⁺ -60-2-BOT	60 W/m	14.0 x 5.5	150	B0300603
ELSR-H ⁺ -75-2-BOT	75 W/m	14.0 x 5.5	150	B0300753