

# At a Glance

# **Applications**



- > Parking garages entrances, exits
- > Helicopter landing sites
- ➤ Concrete ramps
- > Stairs and footpaths

#### **Benefits**

- > Highly robust
- > Suited for hardest installing conditions
- > Flexible mounting
- > Radially and longitudinally waterproof
- Outer jacket is strongly grouted with protective braid

# **Approvals**



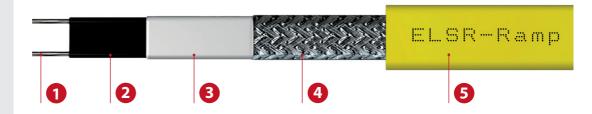




## Note

Not suited for use in asphalt

# **ELSR-Ramp** up to 100 °C



Nickel plated copper, 2.77 mm<sup>2</sup> 1 Bus wire 2 Self-regulating heating element 3 Insulation Protective braid (Cu, tin plated) Protection Outer jacket TPE pressure-grouted with protective braid

# **Checklist ELSR-Ramp**

#### Power Connection & End Termination ELVB-SRV-Ramp Connection set, shrink-fit 0911124 **EL-ECRA** Silicone termination cap, glued, transparent 09112RA **Junction Boxes** ELAK-5 122 x 120 x 90 mm, polyester, 3 breakouts M25, IP 66 0920013 ELAK-5.1 130 x 130 x 75 mm, polycarbonate, breakouts 9x M20/M25, IP 66 0920002





Technical Information				
Max. continuous exposure temperature (power on)	80 ℃			
Max. intermittent exposure temperature (de-energized)	100 °C (max. 1000 h)			
Nominal voltage*	230 V			
Min. Bending radius	50 mm			
Min. Installation temperature	– 20 °C			

#### Heating circuit length

Switch on temperature	Nominal fuse rating	Heating circuit length* <sup>1</sup> [m]	
[°C]	[A]	ELSR-Ramp	
-10	10	18.0	
	16	28.0	
	20	36.0	
	25	45.0	
	32	55.0	

## \*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
- In certain installation situations, the heating circuit length may vary. Please contact our engineers.

#### **Electrical protection**

### Power at start-up

- > According to local standards and regulations.
- ➤ To determine the installed power with the electrical system designer, the nominal current of the series connected fuse or the current value at the system start-up temperature must be taken into account (e.g. 32 A for 55 m ELSR-Ramp (-10 °C).
- ➤ Residual current device (RCD) 30 mA required, max. 500 m heating cable per RCD.

#### Remark

➤ For the use of standard control cabinets, the maximum heating circuit length of 55 m at 32 A per heating circuit must not be exceeded.

# **Ordering Information**

Туре	Nominal output [at 10°C]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-Ramp	50 W/m	17,2 x 9,5	253	B02RAMP0

# Power output at +5°C in concrete

Туре	Nominal output	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-Ramp	110 W/m	17,2 x 9,5	253	B02RAMP0

