



## At a glance

### Applications



Frost protection



Temperature maintenance



Silos, containers, tanks



Pipelines, valves, pumps

- › Building technology
- › Water and wastewater systems
- › Industrial plants that require frost protection or process temperatures

### Advantages

- › Wall mounting
- › No static charging
- › Snap lock = close the cover without using a tool
- › Special shape ensures high stability and robustness

### Suitable connection

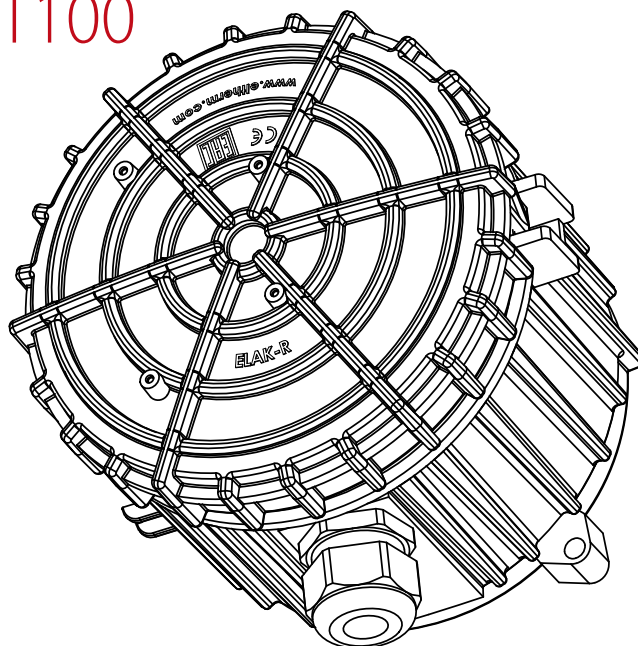
- › Up to 3 heating cables ELSR,
- › Up to 3 heating cables ELKM-A\*
- › Up to 2 PT100
- › 1 supply line

### Approvals



# ELAK-R

## Junction Box for ELSR & ELKM & PT100



The innovative junction box ELAK-R offers many advantages thanks to its unusual shape. For example, the cable that is led in does not have to be bent sharply thanks to the round shape of the junction box. This protects the cable against damage. A safety screw connection with enclosed tool prevents the cover from moving or being opened by unauthorised persons. Additional fastening possibilities for identification plates make it possible to label heating circuits reliably in complex systems. Suitable for wall mounting.

## Checklist

### Mounting fixtures for pipe mounting

|            |                                                         |         |
|------------|---------------------------------------------------------|---------|
| EL-VSB 300 | Mounting bracket, adjustable 180 to 300 mm, mat. 1.4301 | 0941085 |
| EL-VSB 400 | Mounting bracket, adjustable 280 to 400 mm, mat. 1.4301 | 0941086 |

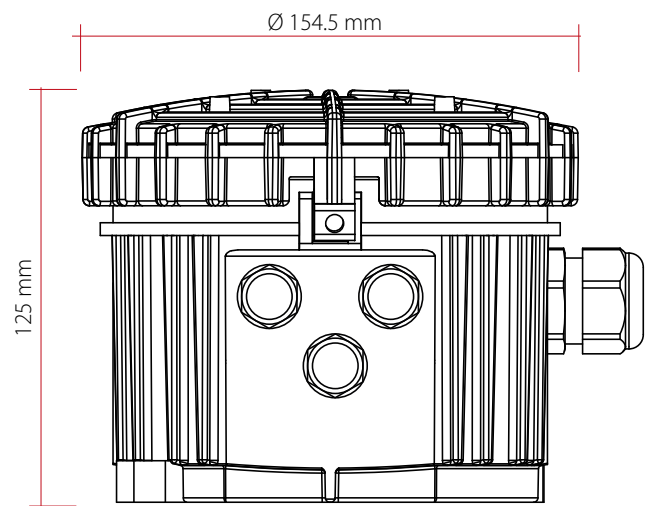
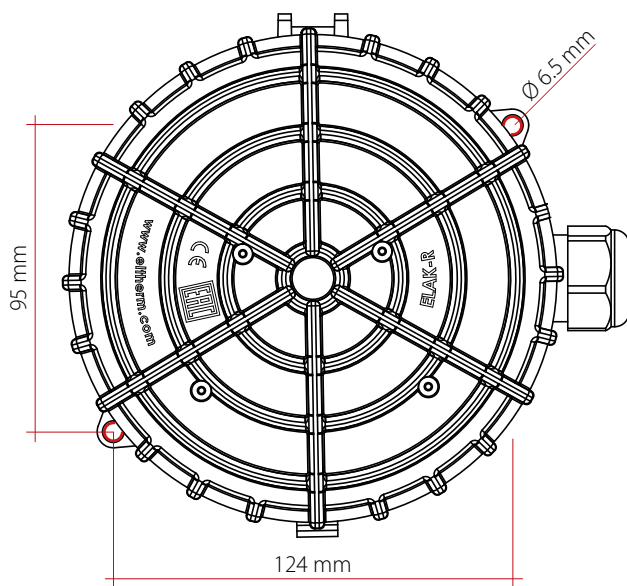
### Assembly accessories for pipelines

|           |                                                   |            |
|-----------|---------------------------------------------------|------------|
| ELB-15.02 | Hose clamp 16-25 mm (DN 15, 1/2"), mat. 1.4301    | 2723001016 |
| ELB-15.04 | Hose clamp 25-40 mm (DN 25, 1"), mat. 1.4301      | 2723001025 |
| ELB-15.06 | Hose clamp 40-60 mm (DN 40, 1.5"), mat. 1.4301    | 2723001040 |
| ELB-15.09 | Hose clamp 70-90 mm (DN 65, 2.5"), mat. 1.4301    | 2723001070 |
| ELB-15.11 | Hose clamp 90-110 mm (DN 80, 3"), mat. 1.4301     | 2723001090 |
| ELB-13V1  | Threaded strapping tape, 11 mm, 30 m, mat. 1.4301 | 2723001010 |
| ELB-13V2  | Turnbuckle 1.4301 (pkg. = 10 pieces), mat. 1.4301 | 0930042    |

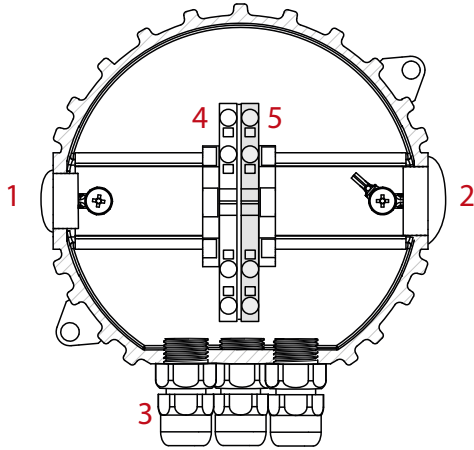
## Technical Specifications

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Operating voltage (max.)  | 800 V                                                        |
| Nominal current           | Max. 32 A per terminal 6 mm <sup>2</sup> (max. 24 A ELAK-R8) |
| Ambient temperature       | - 45 °C to +50 °C                                            |
| Connection cross-section* | Supply line max. 6 mm <sup>2</sup> , 9 - 17 mm diameter      |
| Housing material          | Polyamide, grey                                              |
| Dimensions                | (approx.) Ø 154.5 mm, height 125 mm                          |
| Protection                | IP 65                                                        |
| Mounting                  | Wall mounting                                                |
| Weight                    | approx. 0.7 kg                                               |

\* Connection cross-section (solid or with fine wires without wire end ferrule); terminal heating cable max. 6 mm<sup>2</sup> (AWG10); Terminal temperature sensor max. 2.5 mm<sup>2</sup> (AWG 13)

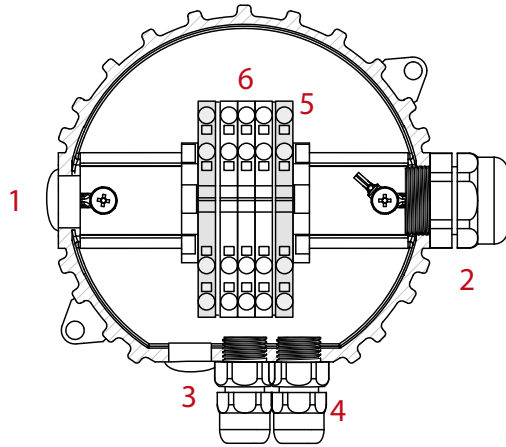


## Scope of supply



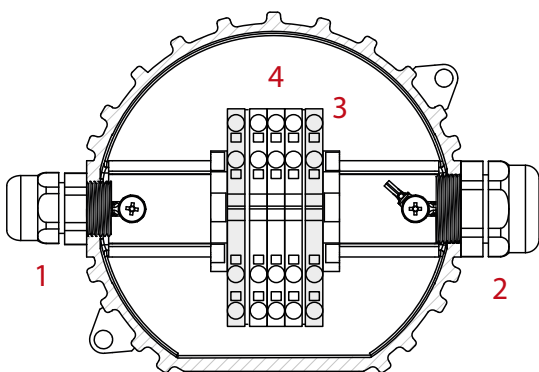
ELAK-R1

| Pos. | Type                      | Quantity | Clamp-range       |
|------|---------------------------|----------|-------------------|
| 1    | Closing plug M20x1,5      | 1        | -                 |
| 2    | Closing plug M25x1,5      | 1        | -                 |
| 3    | Cable gland M16x1,5       | 3        | 4 - 10 mm         |
| 4    | Feed-through terminal     | 1        | 6 mm <sup>2</sup> |
| 5    | Protective earth terminal | 1        | 6 mm <sup>2</sup> |



ELAK-R2

| Pos. | Type                      | Quantity | Clamp-range       |
|------|---------------------------|----------|-------------------|
| 1    | Closing plug M20x1,5      | 1        | -                 |
| 2    | Cable gland M25x1,5       | 1        | 9-13/12-17 mm     |
| 3    | Closing plug M16x1,5      | 1        | -                 |
| 4    | Cable gland M16x1,5       | 2        | 4 - 10 mm         |
| 5    | Protective earth terminal | 2        | 6 mm <sup>2</sup> |
| 6    | Feed-through terminal     | 3        | 6 mm <sup>2</sup> |



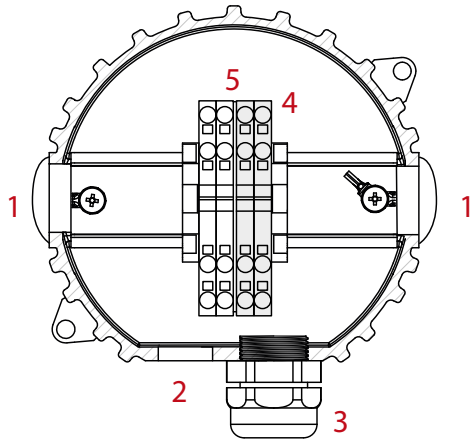
ELAK-R3

| Pos. | Type                      | Quantity | Clamp-range       |
|------|---------------------------|----------|-------------------|
| 1    | Cable gland M20x1,5       | 1        | 9 - 12 mm         |
| 2    | Cable gland M25x1,5       | 1        | 9-13/12-17 mm     |
| 3    | Protective earth terminal | 2        | 6 mm <sup>2</sup> |
| 4    | Feed-through terminal     | 3        | 6 mm <sup>2</sup> |

## Ordering Information

| Type    | Suitable connection                                                            | Item no. |
|---------|--------------------------------------------------------------------------------|----------|
| ELAK-R1 | Star point for 3 heating cables ELKM-AG                                        | 0920051  |
| ELAK-R2 | Connection of 1 ELKM-AG (L and N) or star in feed, or 3 heating cables ELKM-AG | 0920052  |
| ELAK-R3 | Connection of a heating cable ELW-VA                                           | 0920053  |

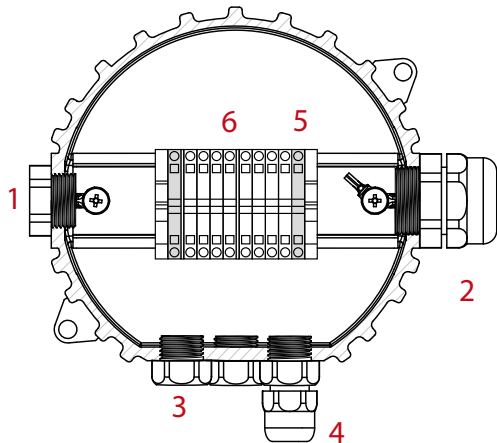
Scope of supply



ELAK-R7

| Pos. | Type                      | Quantity | Clamp-range       |
|------|---------------------------|----------|-------------------|
| 1    | Closing plug M25x1,5*     | 3        | -                 |
| 2    | Threaded hole M25         | 1        | -                 |
| 3    | Cable gland M25x1,5       | 1        | 9-13/12-17 mm     |
| 4    | Protective earth terminal | 2        | 6 mm <sup>2</sup> |
| 5    | Feed-through terminal     | 2        | 6 mm <sup>2</sup> |

\* 1 piece enclosed loosely



ELAK-R8

| Pos. | Type                      | Quantity | Clamp-range         |
|------|---------------------------|----------|---------------------|
| 1    | Closing plug M20x1,5      | 1        | -                   |
| 2    | Cable gland M25x1,5       | 1        | 9-13/12-17 mm       |
| 3    | Closing plug M16x1,5      | 2        | -                   |
| 4    | Cable gland M16x1,5       | 1        | 4 - 10 mm           |
| 5    | Protective earth terminal | 2        | 2,5 mm <sup>2</sup> |
| 6    | Feed-through terminal     | 8        | 2,5 mm <sup>2</sup> |

\* 1 piece enclosed loosely

■ Clamp for earthing or electrical protection

Note: The ELAK-R system does not include connection and termination sets. Please order these separately according to the Type of heating tape you are using.

Ordering Information

| Type    | Suitable connection                                                                                  | Item no. |
|---------|------------------------------------------------------------------------------------------------------|----------|
| ELAK-R7 | Connection of 1 up to 3 self-regulating heating cables ELSR                                          | 0920057  |
| ELAK-R8 | Connection of 1 up to 2 Pt100, 2-4 wires & up to 2 sensor connection cables max. 2.5 mm <sup>2</sup> | 0920058  |