

# Junction Box for Mineral-Insulated Heating Cables

The junction box for heating mineral-insulated cables is designed for connection of mineral-insulated (MI) heating cables to power network. The junction box could be mounted on a wall of a building or using a bracket directly on a pipe/vessel surface. The box enables connection of one mineral-insulated cable heating section to power cable. The junction box is used as a part of heat tracing systems for pipelines and vessels in non-hazardous areas. The junction box

design ensures moisture and dust ingress protection IP66 and high corrosion stability. The junction box is available with cable glands for connection of unarmored power cables. The installed terminal blocks ensure fast and safe connection of multi-core or single-core conductors. The boxes are available with screw clamp terminals as well as with push-in terminals.

## Features

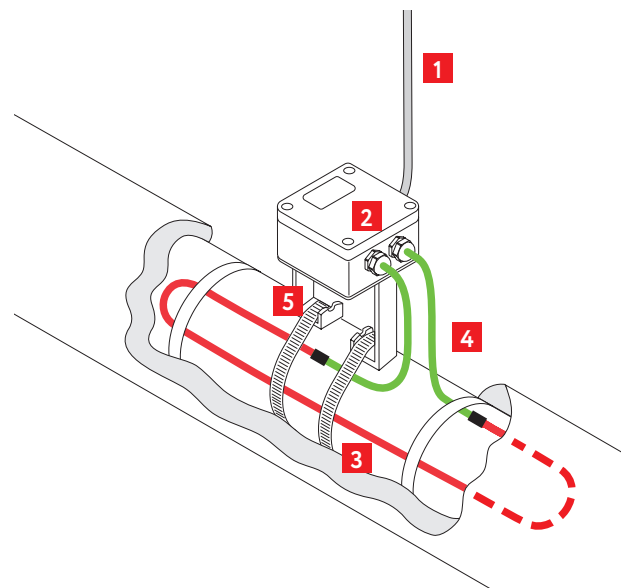
- Non-hazardous area solution
- All required component parts are included
- Quick and easy installation
- High thermal stability
- Non-corrosive

## Application Areas

- Temperature maintenance or freeze protection of pipelines and vessels in non-hazardous areas



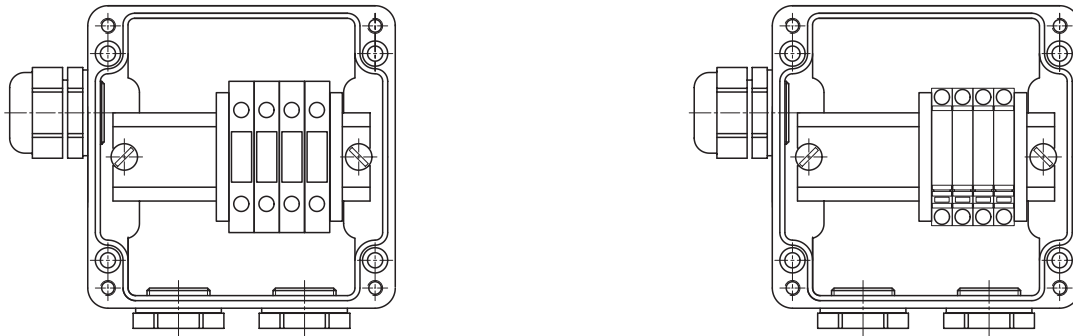
JB2212-...-2xxxx



1. Power cable
2. JB2212-...-2xxxx junction box
3. Heating cable
4. Connection cable (cold lead)
5. Bracket

# Junction Boxes

## Construction



JB2212-223-2xxxx box with screw clamp (left) and push-in (right) terminal block. Number of terminals and cable glands may vary.

## Technical Data

Degree of protection	IP66	
Ambient temperature range	-55..+55 °C	
Operating voltage	max. 750 V	
Operating current	JB2212-223...	max. 32 A
	JB2212-333...	max. 50 A
	JB2212-533...	max. 50 A
Dimensions enclosure	JB2212-223...	122×120×90 mm
	JB2212-333...	160×160×90 mm
	JB2212-533...	260×160×90 mm
Weight	JB2212-223...	1.20 kg
	JB2212-333...	1.65 kg
	JB2212-533...	2.00 kg
Material box	Glass fiber reinforced polyester	
Color	Grey	
Pipe installation support material	Glass fiber reinforced polyester	
Color	Black	

## Application types

Application	Terminals	Name
Loop to Power JB2221-223-2xxxx		
1x M25x1.5	screw, 1L, 1N, 2PE	JB2212-223-21390
2x M20x1.5 screw plug	push-in, 1L, 1N, 2PE	JB2212-223-22390
Star to Power JB2221-333-2xxxx		
1x M25x1.5	screw, 3L, 3N, 2PE	JB2212-333-21390
3x M20x1.5 screw plug	push-in, 3L, 3N, 2PE	JB2212-333-22390
Delta to Power JB2221-533-2xxxx		
1x M25x1.5	screw, 7L, 6PE	JB2212-533-21140
6x M20x1.5 screw plug	push-in, 7L, 6PE	JB2212-533-22140

° Terminal jumpers L-L-L and N-N-N

°° Terminal jumpers L-L and L-L-L

## Approvals



° Certification is underway

## Types

Name	Order code
JB2212-223-21390	2210001616
JB2212-223-22390	2210001617
JB2212-333-21390	2210001620
JB2212-333-22390	2210001621
JB2212-533-21140	2210001624
JB2212-533-22140	2210001625

## Accessories (to be ordered separately)

Brackets PB, KP, PL.JB0606 – for mounting the box onto the pipeline.

Z-profile – for mounting the box onto a metal structure or onto a wall.

Metal pipe strap PFS/3 – for mounting the bracket onto a pipeline.

Flexible sealed gland FSG – for mechanical protection of cables in open space sets.

Cable entry unit LEK/U – for penetrating of thermal insulation.