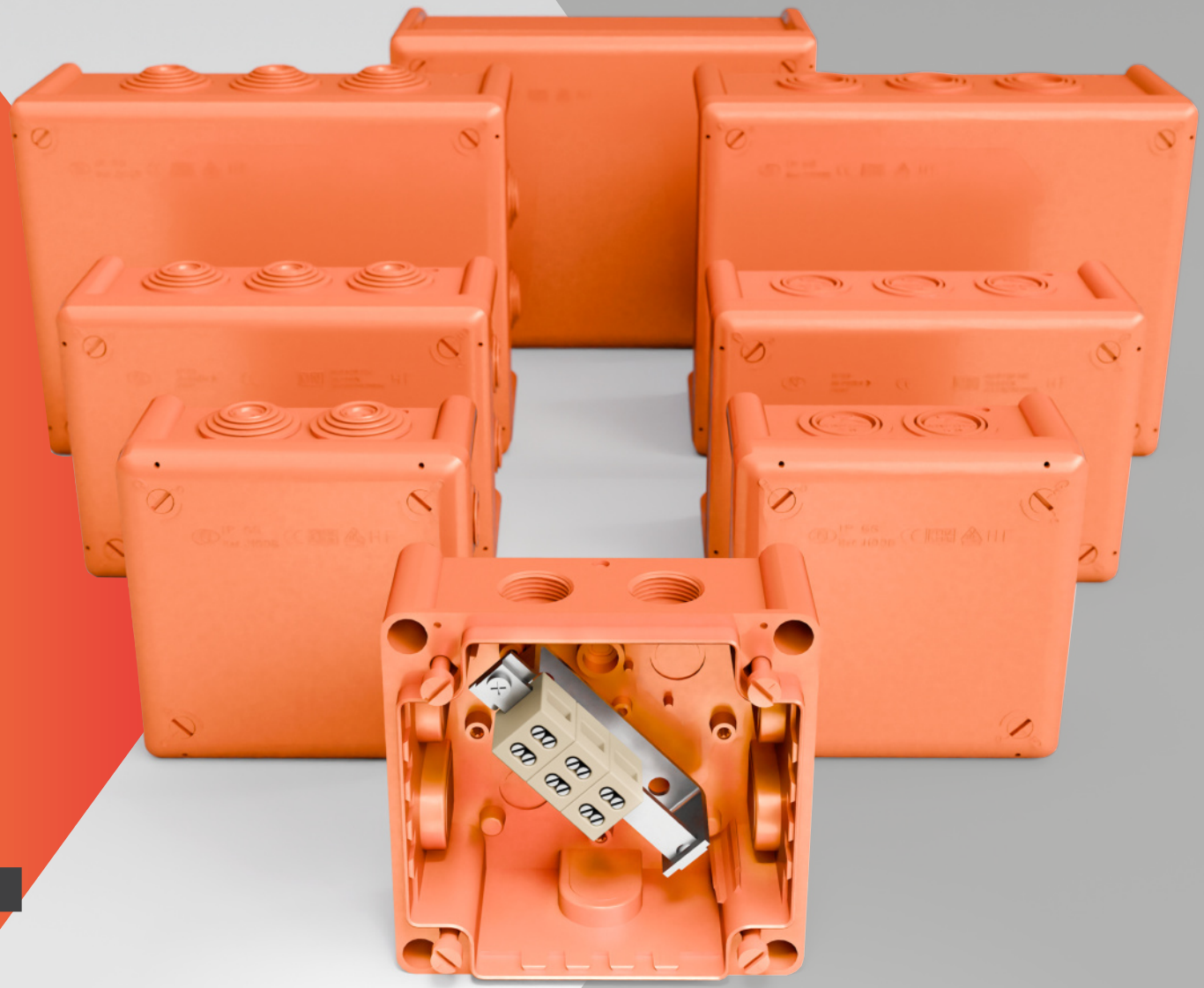
NEW RANGE

Easy.
Versatile.
Secure.



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Fire Resistant E90

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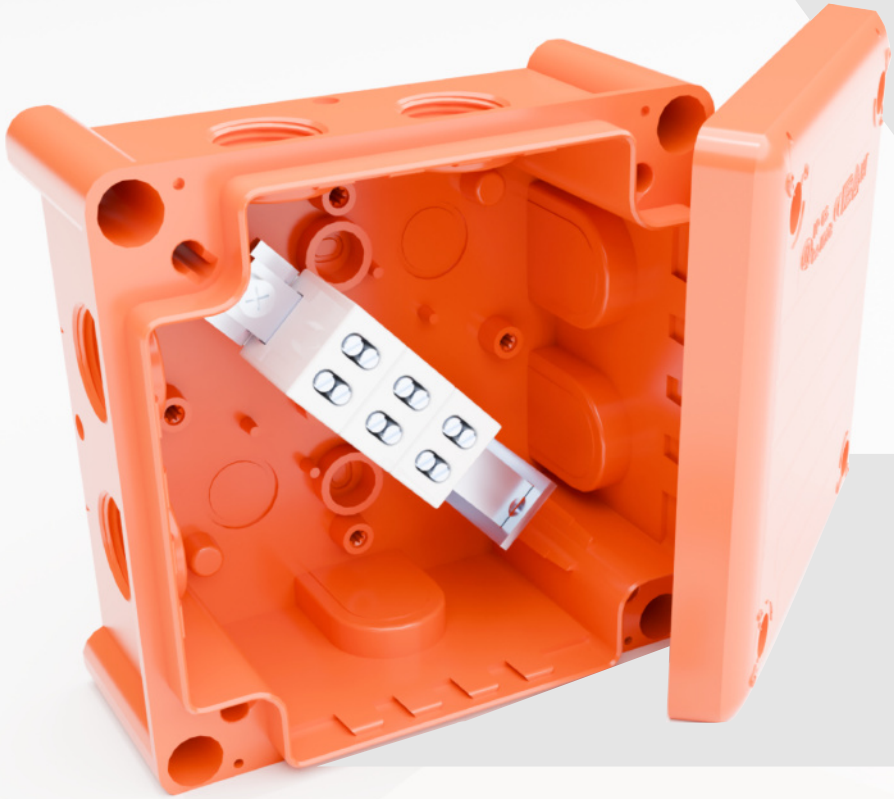
Key Features & Benefits



Functional Integrity
Functional Integrity for 90 minutes (compliant with DIN 4102 Part 12)

E90

Mechanical Resistance
High impact resistance. IK10 available with accessory (metal armor)

IK08

Tested for continuous operationfor **90 minutes** in case of emergency.

Environmental Protection
Ingress Protection against dust and powerful water jets

IP66

Nominal Voltage
Nominal System Voltage for E90 application

500V

JSL E90 NEXT watertight junction boxes, designed to withstand fire by maintaining the integrity of electrical circuits under the most extreme fire conditions.

next
FireResistant E90

Applications

Guaranteed Safety

Ensures functional integrity for **90 minutes** under extreme fire conditions, maintaining power supply to essential safety systems.

Superior Quality

Built with high-resistance thermoplastic materials, halogen-free (PP V0, free of heavy metals), in a distinctive orange color.

Emergency Systems

- Emergency lighting
- Smoke extraction systems
- Sprinkler pumps
- Fire alarm systems

Security Systems

- Video surveillance (CCTV)
- Access control systems
- Evacuation systems (e.g., public address, voice alarm)
- Emergency communications systems

Critical Infrastructures

- Tunnels
- Public buildings (e.g., schools, government offices)
- Commercial centers (e.g., shopping malls)
- Hospitals and healthcare facilities

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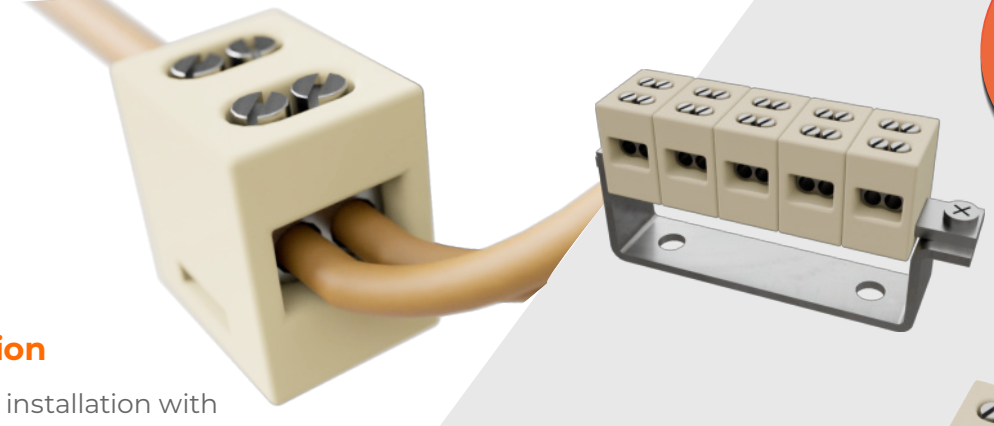
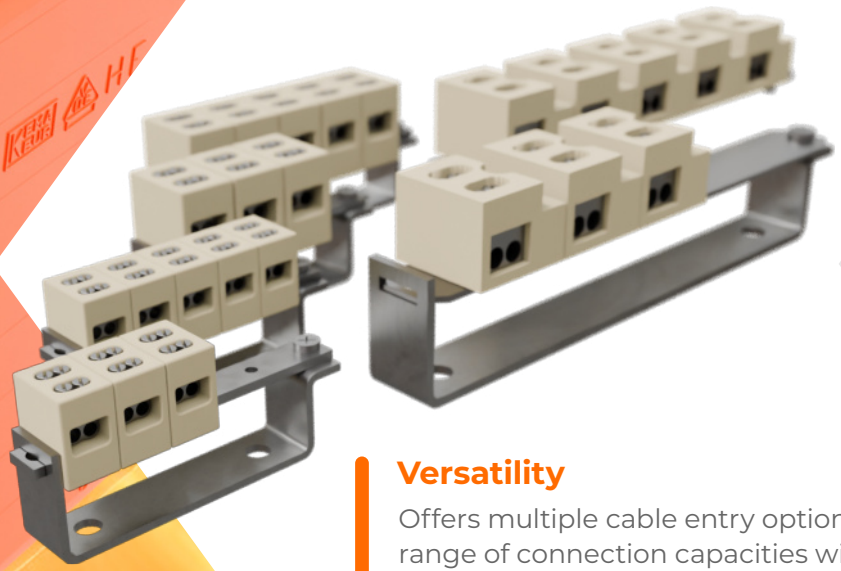
Ceramic Terminals

NEW SYSTEM



Ease of Installation

Designed for simple installation with pre-marked entries, standard cable gland compatibility, and flexible mounting options.



Versatility

Offers multiple cable entry options and a range of connection capacities with ceramic terminals for various needs.

Installation

Fasten directly to concrete walls using the hardened/treated metal anchors for fire conditions.

Double Terminal 6mm²

Cable Capacity (per pole):

Solid 0.8–6.0 mm²; Flexible 0.8–4.0 mm²

Dimensions: approx. 19 × 13 × 21.5 mm

Double Terminal 16mm²

Cable Capacity (per pole):

Solid 1.5–16.0 mm²; Flexible 1.5–10.0 mm²

Dimensions: approx. 25.5 × 19 × 25.5 mm

Double Terminal 25mm²

Cable Capacity (per pole):

Solid 2.5–25.0 mm²; Flexible 2.5–16.0 mm²

Dimensions: approx. 32.4 × 32.4 × 25 mm

next

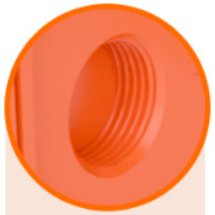
FireResistant E90

Reference Nomenclature System

Product references for the JSL BOXLINE E90 NEXT series follow a structured system:

Example: **J100SF-N3P16** refers to a **J100** Models box with **Threaded entries (SF)**. From the **E90 Next generation (N)**, containing **3 ceramic terminal blocks** (3), each terminal blocks suitable for **16mm² conductors (P16)**.

J100SF-N3P16 =

				
J100	**SF**	**N**	**3**	**P16**
MODEL	TYPE	GENERATION	TERMINAL BLOCKS	CAPACITY

PRODUCT REFERENCE

To find the **appropriate reference for your project,** simply apply the formula described above for the box model and components.

As different projects have different requirements, if your project requires a **specific configuration**, please contact our technical team so we can find a solution tailored to your needs.

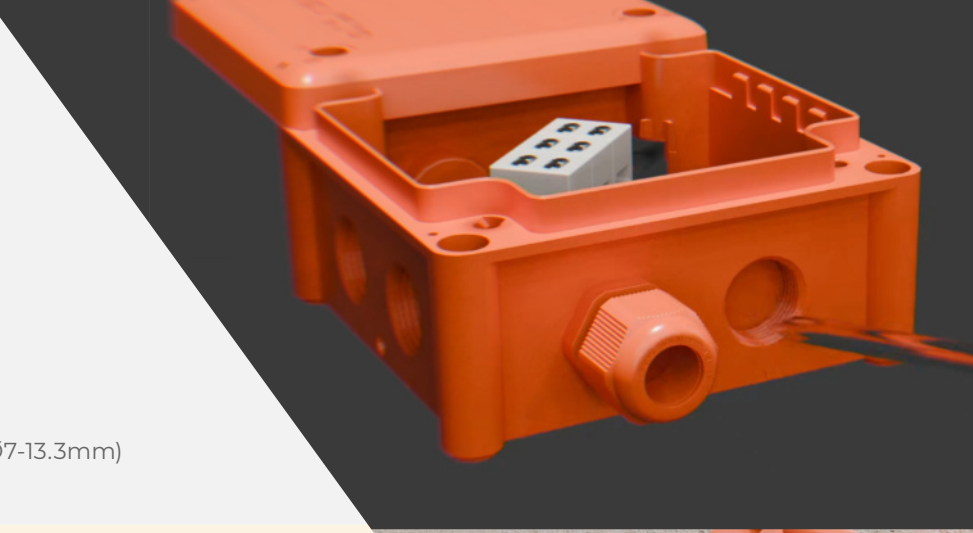
Models

116 x 116 x 62 mm

J100SF-N

x7

- With 7x M20 threaded entries
  (for M20 cable glands, cable Ø7-13.3mm)



J100

The most compact range in the E90 NEXT series, ideal for smaller junction points requiring fire resistance.

J100BF-N

x7

- with 7x rubber grommet entries (IP66)
  (for cables Ø3.5-25mm)

J100MF-N

x7

- With 7x marked (knock-out) entries for cable glands PG13.5 (Ø9-12mm), M20 (Ø7-13.3mm), or M25 (Ø12-17.5mm)

next
FireResistant E90

Terminal Blocks

CONFIGURATIONS
J100

Terminal Block Configurations for J100 box models (116 x 116 x 62 mm)

These terminal blocks allow for the connection of cables with different cross-sectional areas.

N3P6

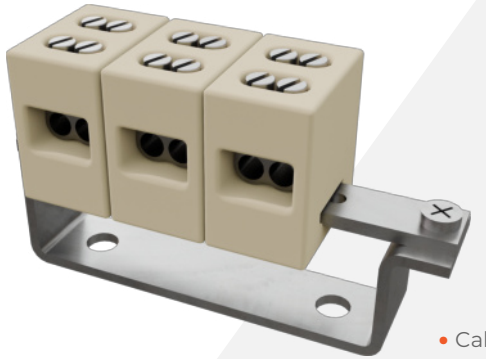
3-pole ceramic terminal block for a 6 mm² nominal cross-section

- Cable Capacity (per pole):
  Solid/Stranded: 0.8-6.0 mm²;
  Flexible: 0.8-4.0 mm².

N5P6

5-pole ceramic terminal block for a 6 mm² nominal cross-section

- Cable Capacity (per pole):
  Solid/Stranded: 0.8-6.0 mm²;
  Flexible: 0.8-4.0 mm².



N3P16

3-pole ceramic terminal block for a 16 mm² nominal cross-section

- Cable Capacity (per pole):
  Solid: 1.5-16.0 mm²;
  Flexible: 1.5-10.0 mm².

next
FireResistant E90

JSL

Models

116 x 166 x 72 mm

J160BF-N

x10

- With 10x rubber grommet entries (for cables Ø3.5-25mm).

J160

A mid-sized range offering increased capacity and connection options.

J160MF-N

x10

- With 10x marked (knock-out) entries for cable glands PG13.5 (Ø9-12mm), M20 (Ø7-13.3mm), or M25 (Ø12-17.5mm).

next

Fire Resistant **E90**

Terminal Blocks

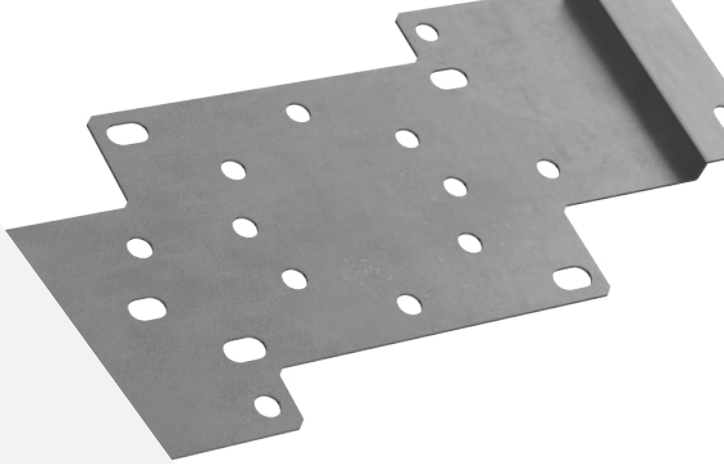
CONFIGURATIONS
J160

- Terminal Block Configurations for J160 box models (116 x 166 x 72 mm)
- Larger dimension terminal blocks to use with these larger boxes for wider cross-section cables.

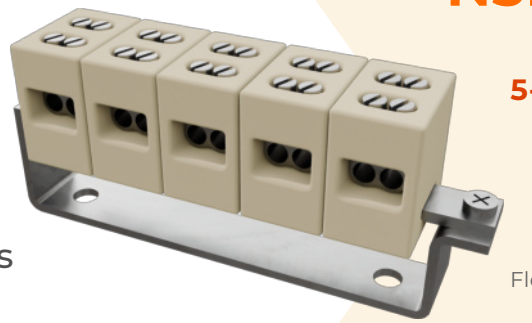
N5P6

5-pole ceramic terminal block for a 6 mm² nominal cross-section

- Cable Capacity (per pole): Solid/Stranded: 0.8-6.0 mm²; Flexible: 0.8-4.0 mm².



N5P16

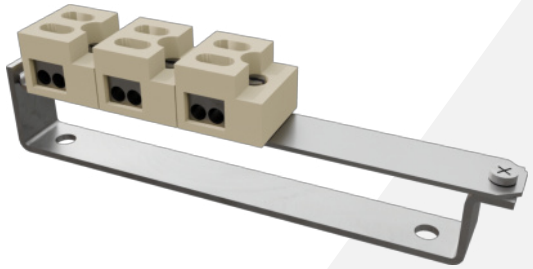


5-pole ceramic terminal block for a 16 mm² nominal cross-section

- Cable Capacity (per pole): Solid/Stranded: 1.5-16.0 mm²; Flexible: 1.5-10.0 mm².

Specific Notes: *For the J160MF-N5P16 (supplied with 5x16mm² ceramic terminal blocks), the maximum outer cable diameter must be less than 17.3mm.*

N3P25



3-pole ceramic terminal block for a 25 mm² nominal cross-section

- Cable Capacity (per pole): Solid: 2.5-25.0 mm²; Flexible: 2.5-16.0 mm².

next
Fire Resistant E90

JSL

Models

166 x 216 x 92 mm

J200BF-N

x10

- With 10x grommet entries (for cables Ø3.5-32mm).

J200

The largest model, providing suficient space for demanding instalations and larger cable diameters.

J200MF-N

x10

- With 10x marked (knock-out) entries for cable glands PG13.5 (Ø9-12mm), M20 (Ø7-13.3mm), M25 (Ø12-17.5mm), or M32 (Ø16-20.5mm).

J200LF-N

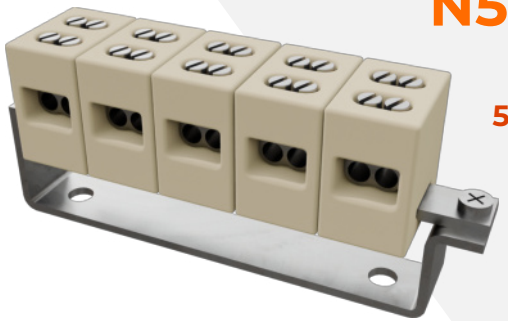
- With smooth walls (plain sides), allowing for custom entry drilling.

next
FireResistant E90

Terminal Blocks

CONFIGURATIONS
J200

- Terminal Block Configurations for J200 box models (166 x 216 x 92 mm)
- Larger dimension terminal blocks in a box with ample space for installations using larger cross-section cables.

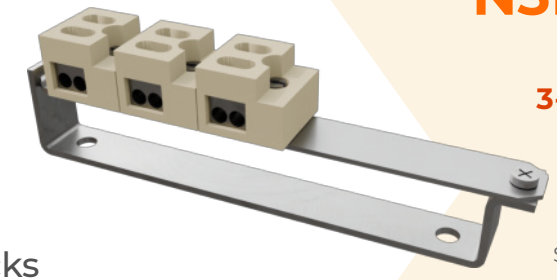


N5P16

5-pole ceramic terminal block for a 16 mm² nominal cross-section

- Cable Capacity (per pole):

Solid/Stranded: 1.5-16.0 mm²; Flexible: 1.5-10.0 mm².



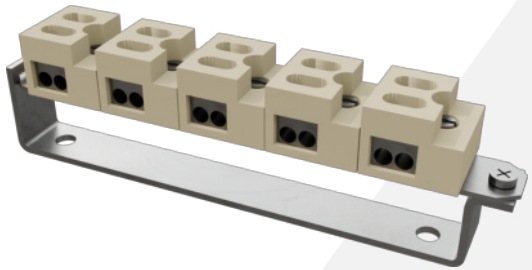
N3P25

3-pole ceramic terminal block for a 25 mm² nominal cross-section

- Cable Capacity (per pole):

Solid: 2.5-25.0 mm²; Flexible: 2.5-16.0 mm².

Specific Notes: *For the J200MF-N5P25 (supplied with 5x25mm² ceramic terminal blocks), the maximum outer cable diameter must be less than 20.5mm.*



N5P25

5-pole ceramic terminal block for a 25 mm² nominal cross-section

- Cable Capacity (per pole):

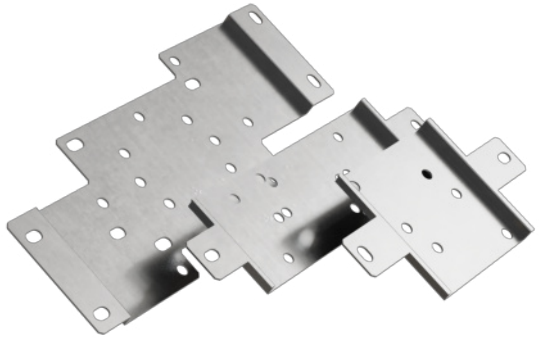
Solid: 2.5-25.0 mm²; Flexible: 2.5-16.0 mm².

next
Fire Resistant E90

Accessories

Stainless Steel External Mounting Plates

MP100 (For installation with all **J100** series models)
MP160 (For installation with all **J160** series models)
MP200 (For installation with all **J200** series models)



V0 Fire-Retardant Metric Cable Glands

V0 classification, orange color, to maintain the system's integrity.
Available sizes: M20, M25, and M32.

IP 66

IK10

MCP Metal Guard

Provides extra protection with the **IK10** metal guard.

Fuse Holders

For the protection of lighting systems and other circuits.

next
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Technical Specifications

Box Material

- Type: Halogen-free Thermoplastic Polypropylene (PP V0), without heavy metals
- Color: Orange (similar to RAL 2003/2004)
- Terminal blocks Anchorage: Galvanized steel chassis
- External Fixing Plate: Optional, for external mounting without compromising box integrity

Standards Compliance

- Functional Integrity: **DIN 4102 Part 12 (E90)**
- Junction Boxes: **EN 60670-1, EN 60670-22**
- Glow Wire Test: **IEC 60695-2-10**
- Ingress Protection: **EN 60529 (IP66)**
- Directives: **Low Voltage Directive (2014/35/EU), RoHS Directive (2011/65/EU), REACH Regulation (EC No. 1907/2006)**

Available Dimensions

- J100: 116x116x62 mm
- J160: 116x166x72 mm
- J200: 166x216x92 mm

Electrical Specifications

- Nominal Voltage: 500V
- IP Rating: IP66
- IK Rating: IK08

Terminal blocks

- Material: Steatite ceramic
- Connector Material: Nickel-plated Brass (Cu Zn37)
- Connection Points per Pole: 4

Terminal Configurations

P6 (6mm² Terminal blocks)

- Rated Current: 55A (individual terminal rating up to 690V, system limited to 500V for E90)
- Cable Capacity (per pole): Rigid/Stranded 0.8-6.0 mm²; Flexible 0.8-4.0 mm²
- Dimensions: approx. 19 x 13 x 21.5 mm
- Rated Torque: 0.8 Nm

P16 (16mm² Terminal blocks)

- Rated Current: 80A (individual terminal rating up to 690V, system limited to 500V for E90)
- Cable Capacity (per pole): Rigid 1.5-16.0 mm²; Flexible 1.5-10.0 mm²
- Dimensions: approx. 25.5 x 19 x 25.5 mm
- Rated Torque: 1.2 Nm

P25 (25mm² Terminal blocks)

- Rated Current: 125A (individual terminal rating up to 690V, system limited to 500V for E90)
- Cable Capacity (per pole): Rigid 2.5-25.0 mm²; Flexible 2.5-16.0 mm²
- Dimensions: approx. 32.4 x 32.4 x 25 mm
- Rated Torque: 2.0 Nm

Detailed Wire Clamping Capacity

(per single entry point on terminal block, total 4 per pole)

For 6mm² terminal blocks:

- 0.8 mm² wire: 5 wires (total 20 per pole)
- 1.0 mm² wire: 4 wires (total 16 per pole)
- 1.5 mm² wire: 3 wires (total 12 per pole)
- 2.5 mm² wire: 1 wire (total 4 per pole)
- 4.0 mm² wire: 1 wire (total 4 per pole)
- 6.0 mm² wire: 1 wire (total 4 per pole)
- Rated Torque: 0.8 Nm

For 16mm² terminal blocks:

- 1.5 mm² wire: 5 wires (total 20 per pole)
- 2.5 mm² wire: 4 wires (total 16 per pole)
- 4.0 mm² wire: 3 wires (total 12 per pole)
- 6.0 mm² wire: 2 wires (total 8 per pole)
- 10 mm² wire: 1 wire (total 4 per pole)
- 16 mm² wire: 1 wire (total 4 per pole)
- Rated Torque: 1.2 Nm

For 25mm² terminal blocks:

- 2.5 mm² wire: 6 wires (total 24 per pole)
- 4.0 mm² wire: 4 wires (total 16 per pole)
- 6.0 mm² wire: 2 wires (total 8 per pole)
- 10 mm² wire: 1 wire (total 4 per pole)
- 16 mm² wire: 1 wire (total 4 per pole)
- 25 mm² wire: 1 wire (total 4 per pole)
- Rated Torque: 2.0 Nm

next FireResistant E90

JSL

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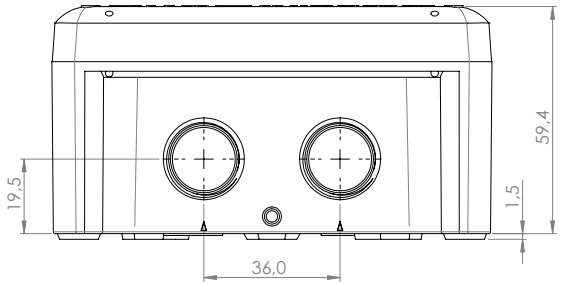
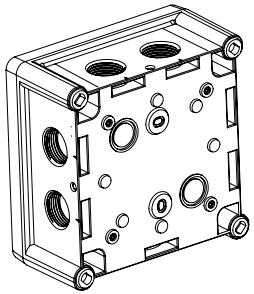
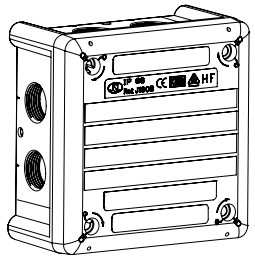
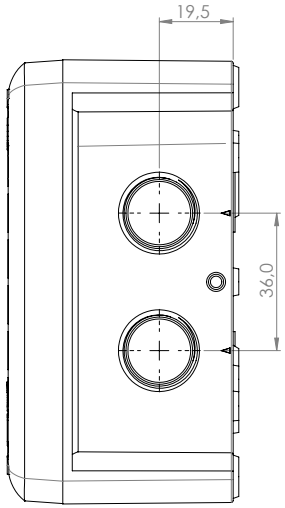
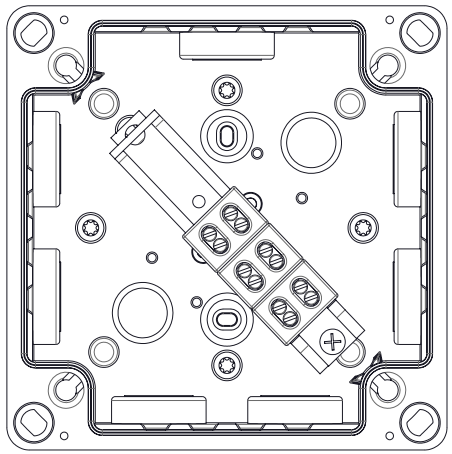
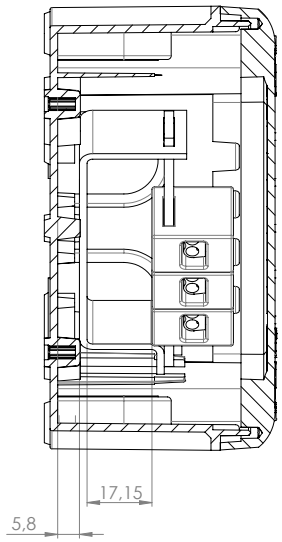


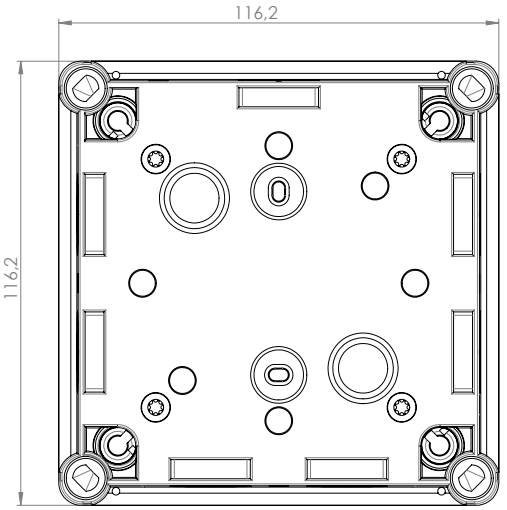


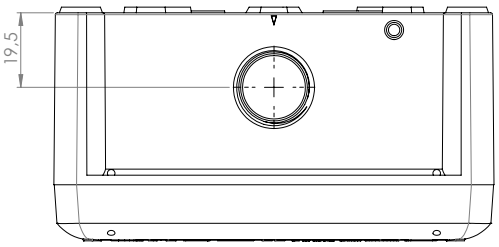












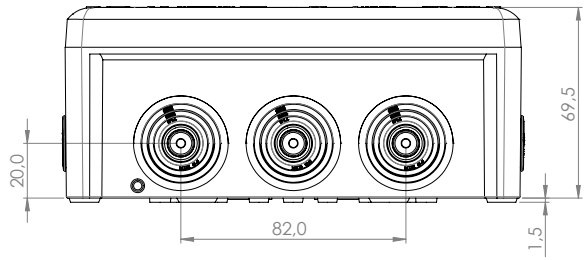
JSL

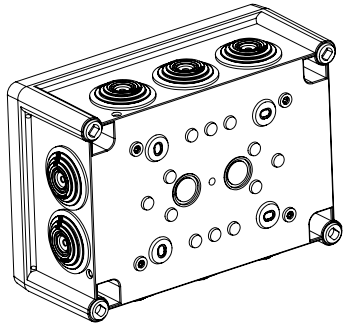
Technical Dimensions

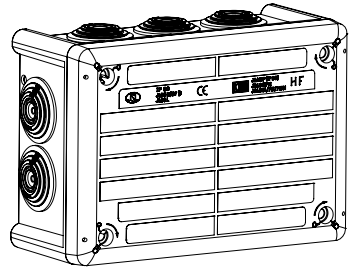
General Dimensions for J100 Models

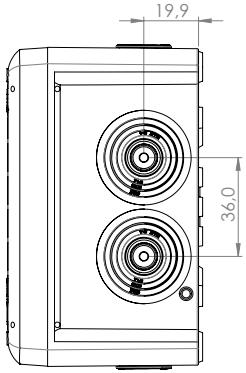
- As an example, we are only showing the dimensions for one of the J100 box models (in this case, the J100SF-N). To get the specific dimensions for each variant, please visit: www.jsl-online.com

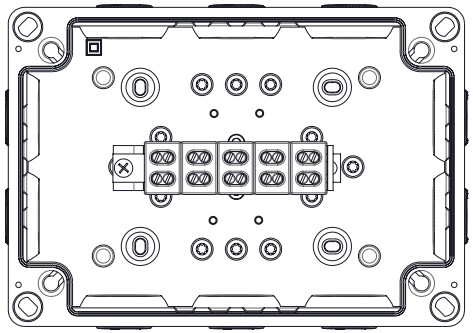
next
Fire Resistant E90

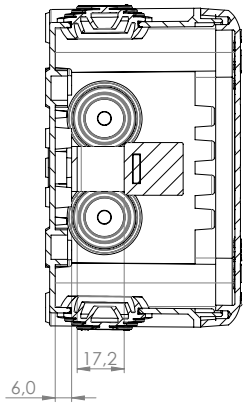


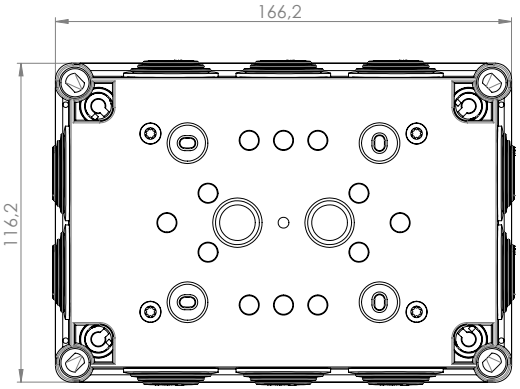


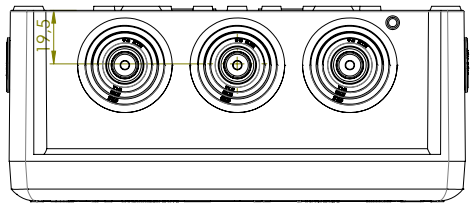












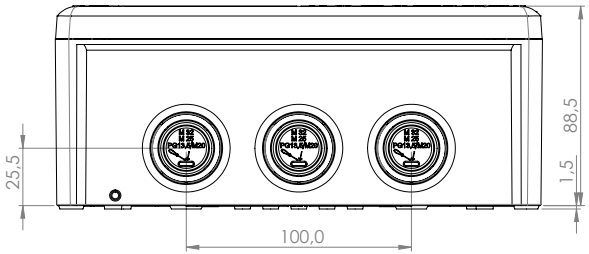
JSL

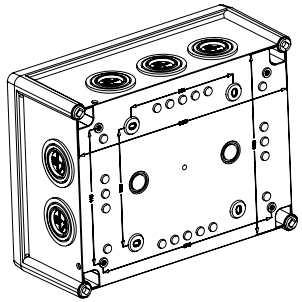
Technical Dimensions

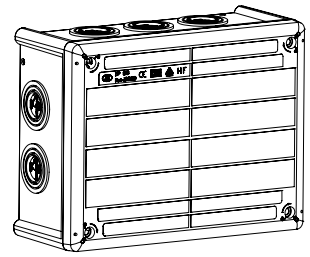
General Dimensions for J160 Models

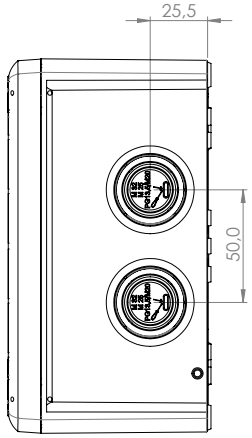
- As an example, we are only showing the dimensions for one of the J160 box models (in this case, the J160BF-N). To get the specific dimensions for each variant, please visit: www.jsl-online.com

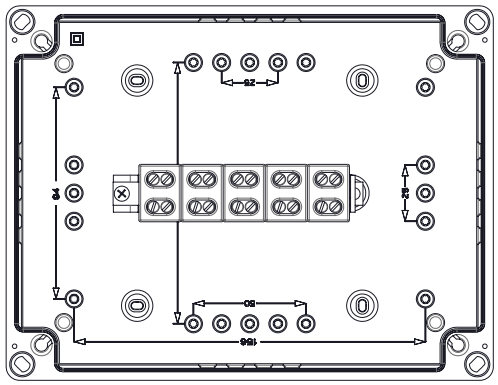
next
Fire Resistant E90

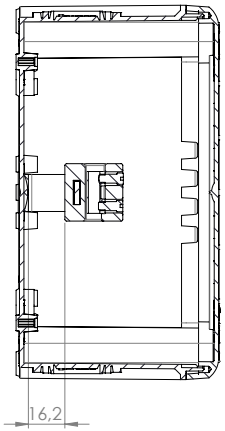


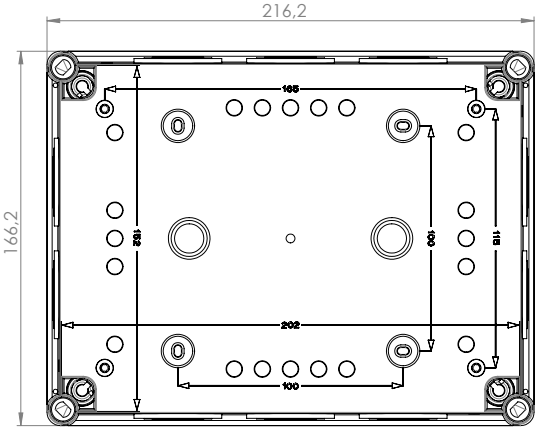


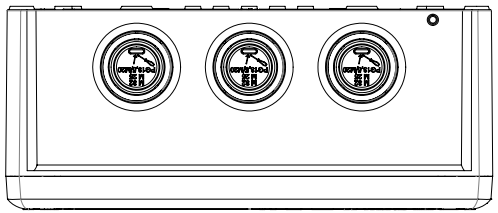












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Technical Dimensions

General Dimensions for J200 Models

- As an example, we are only showing the dimensions for one of the J160 box models (in this case, the J160MF-N). To get the specific dimensions for each variant, please visit: www.jsl-online.com

next
FireResistant E90

JSL

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