



KOPOS



**FIRE RATED BOXES AND CABLE CLAMP  
FASTENING WITH K-PULSA\_PO**



# FIRE RATED SYSTEMS

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Innovative fire rated systems from KOPOS KOLÍN a.s. ensure reliable protection of your buildings and property against unexpected events. Wiring boxes are safe, but also flexible and elegant. We design them with your needs in mind, while emphasizing a design that can be easily integrated into various spaces, whether you need a fire rated system for a residential building, commercial building, or industrial complex. In addition to high-quality products, we also offer expert support and service. Let us protect what is truly valuable to you.



# KPZ

FIRE RATED  
DEVICE  
BOXES



SUITABLE FOR SOUND-PROOF WALLS  
WITH ATTENUATION UP TO 69 dB

DRILL DIAMETER  
FOR INSTALLATION 73 mm

FOAMING MATERIAL  
ENSURING INTEGRITY  
AND EI 90 INSULATION

HALOGEN FREE  
MATERIAL

MOUNTING AND DEVICE  
SCREWS ARE PART OF THE  
BOX

MULTIPLE  
VARIANTS





## FIRE RATED DEVICE BOXES **KPZ**



KPZ 68-45\_PO



KPZ 68-60\_PO



VIDEO  
TUTORIAL

- Entry holes made of flexible material
- Foaming material outside the box
- Suitable for low-energy and passive houses
- Drill diameter for installation: 73 mm
- mounting screws with two-way thread and plastic feet for quick installation
- box designed for buildings with increased need for protection of persons and property
- complies with standards: ČSN EN 1363-1, ČSN EN 1364-1, ČSN EN 1366-3, ČSN 73 0810

### MULTIPLE VARIANTS



KPZ 68-50/2\_PO



KPZ 68-50/3\_PO



VIDEO  
TUTORIAL



KPZ-1\_PO

- Entry holes made of flexible material
- Foaming material outside the box
- Suitable for low-energy and passive houses
- Drill diameter for installation: 73 mm
- mounting screws with two-way thread and plastic feet for quick installation
- box designed for buildings with increased need for protection of persons and property
- complies with standards: ČSN EN 1363-1, ČSN EN 1364-1, ČSN EN 1366-3, ČSN 73 0810

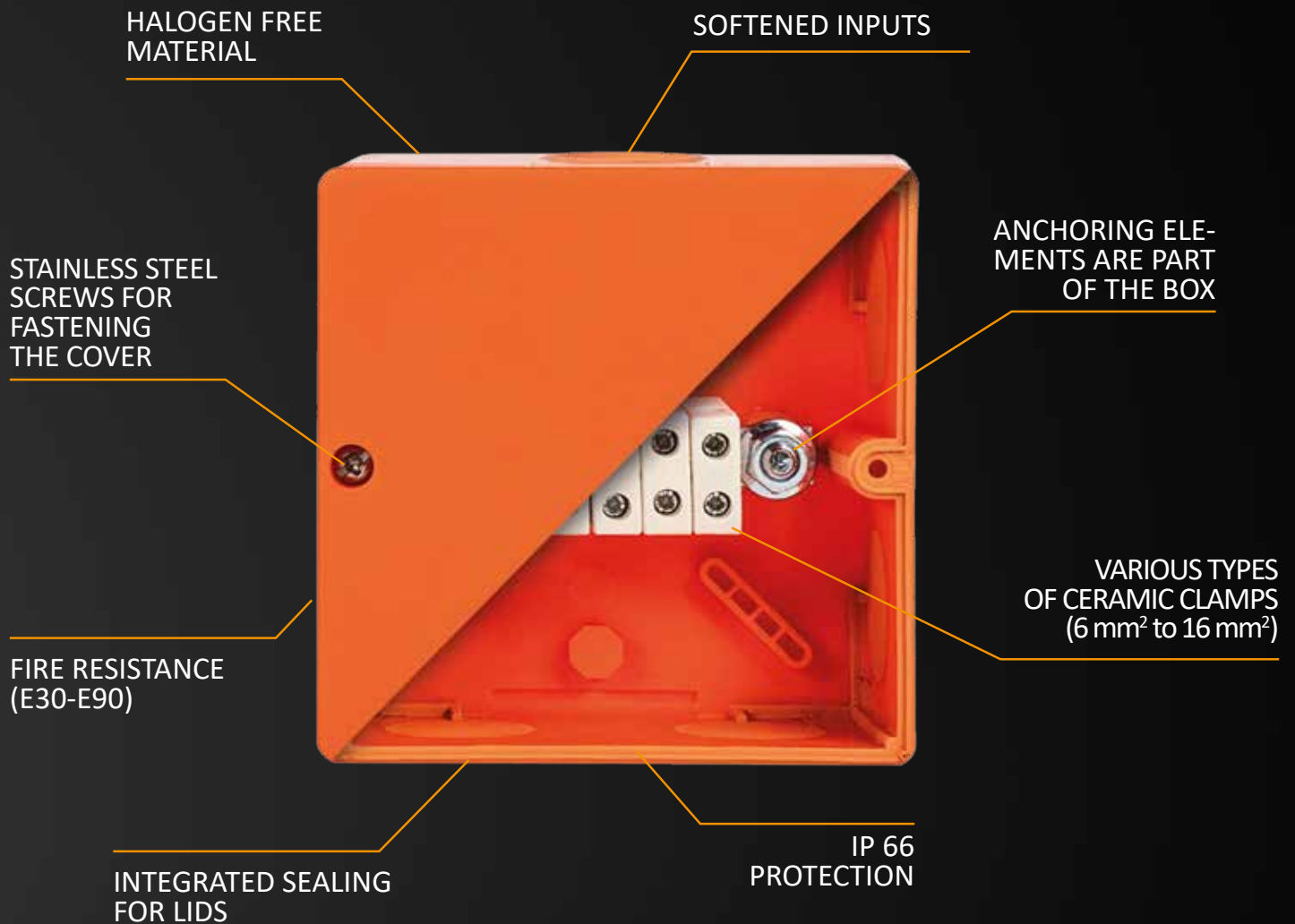




# ADVANTAGES OF FIRE RATED KSK BOXES

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KSK wiring boxes can conduct electrical current for up to 90 minutes in the event of a fire. They are used to ensure the functionality of systems such as emergency ventilation, escape route lighting, and fire door control. The boxes are used in healthcare facilities, shopping centers, parking lots, and production halls.



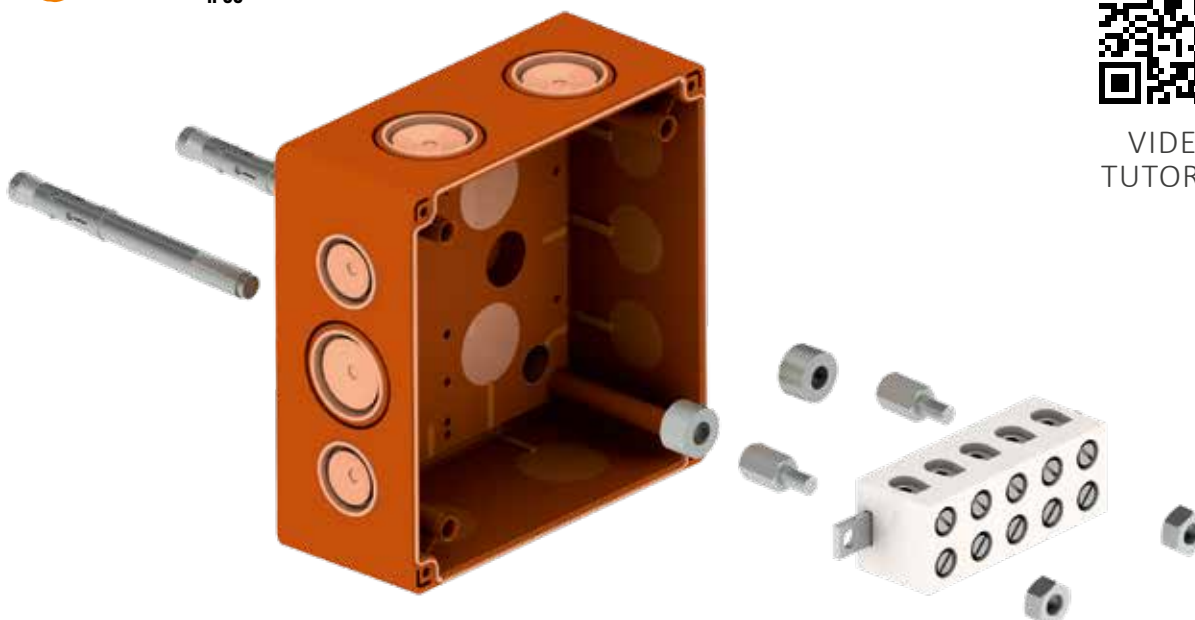


wiring boxes

## KSK WITH SIMPLE CLAMP

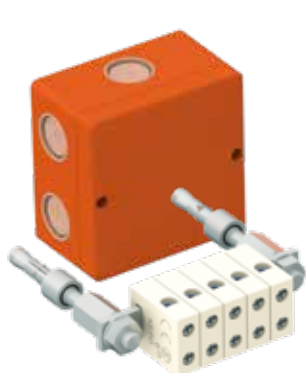


VIDEO  
TUTORIAL



- Softened inputs ensure easy cable passage
- The package includes anchors, stainless steel screws, support posts, a crossbar, and ceramic clamps
- Designed primarily for three-phase installations
- Easy access to clamps thanks to their location on the posts
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205

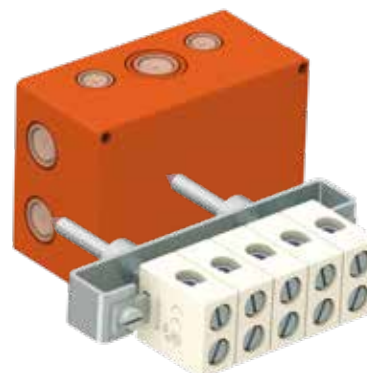
| Box Type     | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|--------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KSK 100_PO   | E90, P90-R, PS90               | 101 x 101 x 63 mm      | 5 pcs                    | 1,5 - 6 mm <sup>2</sup>  |
| KSK 125_PO10 | E90, P90-R, PS90               | 126 x 126 x 76 mm      | 5 pcs                    | 1,5 - 10 mm <sup>2</sup> |
| KSK 175_PO16 | E90, P90-R, PS90               | 176 x 126 x 90 mm      | 5 pcs                    | 1,5 - 16 mm <sup>2</sup> |



KSK 100\_PO

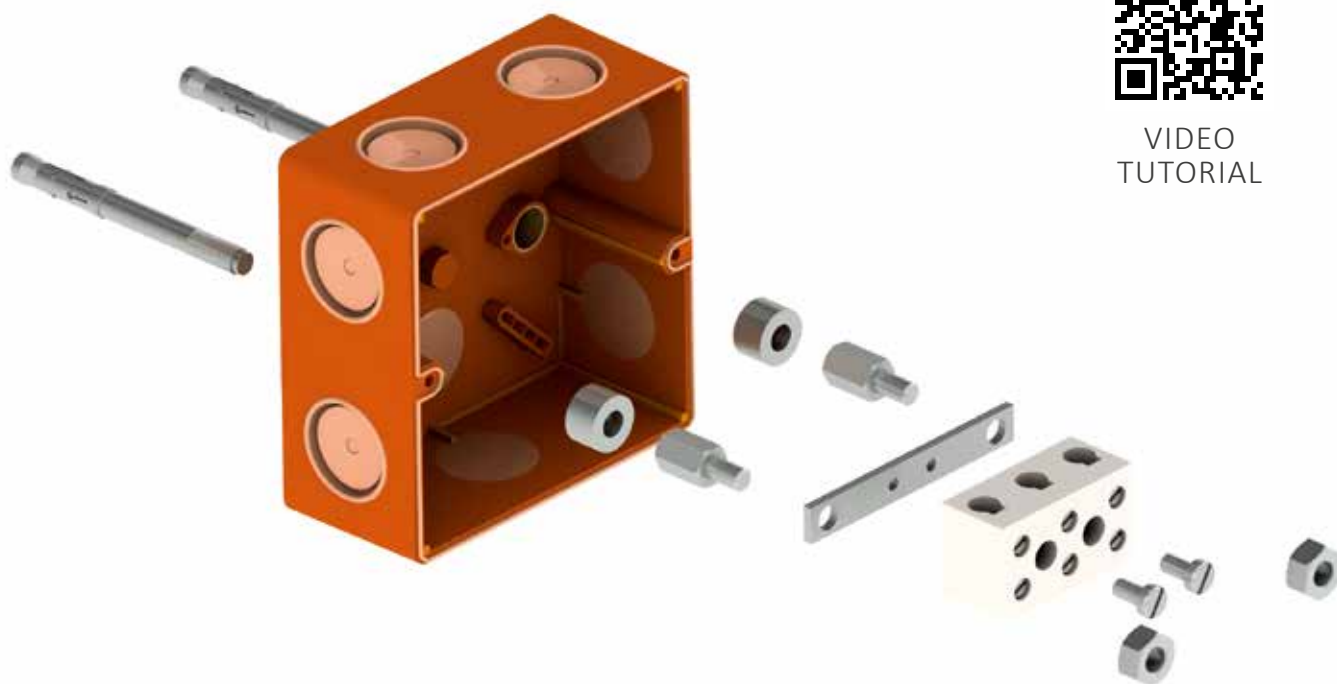


KSK 125\_PO10



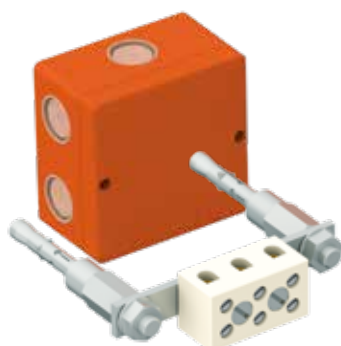
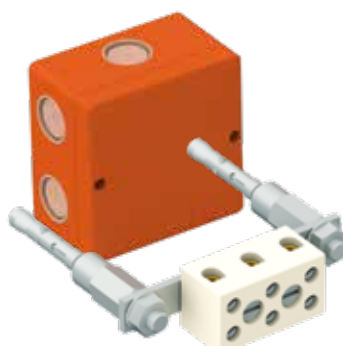
KSK 175\_PO16

wiring boxes

**KSK** FOR SINGLE-PHASE PURPOSESVIDEO  
TUTORIAL

- Softened inputs ensure easy cable passage
- The package includes anchors, stainless steel screws, support posts, a crossbar, and a ceramic clamp
- Designed primarily for single-phase installations
- Easy access to the clamp thanks to its location on the posts
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205

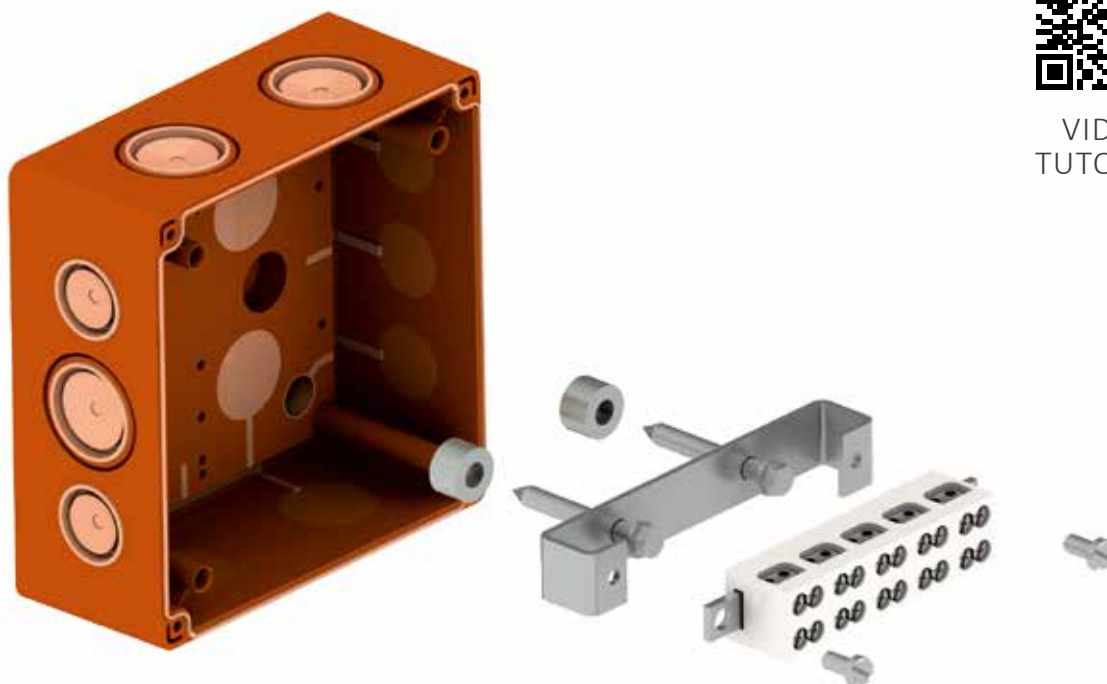
| Box Type      | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|---------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KSK 100_PO4J  | E90, P90-R, PS90               | 101 x 101 x 63 mm      | 1 pcs                    | 1,5 - 4 mm <sup>2</sup>  |
| KSK 100_PO6J  | E90, P90-R, PS90               | 101 x 101 x 63 mm      | 1 pcs                    | 1,5 - 6 mm <sup>2</sup>  |
| KSK 100_PO10J | E90, P90-R, PS90               | 101 x 101 x 63 mm      | 1 pcs                    | 1,5 - 10 mm <sup>2</sup> |

**KSK 100\_PO4J****KSK 100\_PO6J****KSK 100\_PO10J**



wiring boxes

# KSK WITH A DOUBLE CLAMP

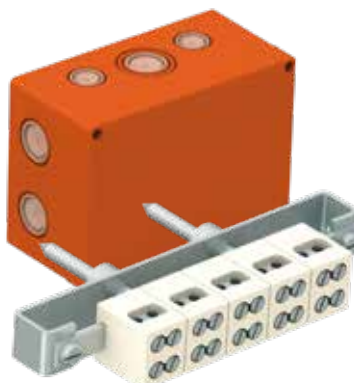
VIDEO  
TUTORIAL

- Soft entries ensure easy cable passage
- The package includes concrete screws, stainless steel screws, support posts, a crossbar, and ceramic clamps
- Easy connection of multiple conductors to a single potential
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205

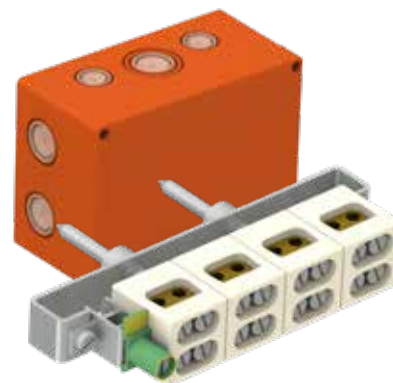
| Box Type      | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps      | Conductors Cross Section |
|---------------|--------------------------------|------------------------|-------------------------------|--------------------------|
| KSK 125_2PO6  | E90, P90-R, PS90               | 126 x 126 x 76 mm      | 5 pcs                         | 1,5 - 6 mm <sup>2</sup>  |
| KSK 175_2PO10 | E90, P90-R, PS90               | 176 x 126 x 90 mm      | 5 pcs                         | 1,5 - 10 mm <sup>2</sup> |
| KSK 175_2PO16 | E90, P90-R, PS90               | 176 x 126 x 90 mm      | 4 pcs + 1 pcs grounding clamp | 1,5 - 16 mm <sup>2</sup> |



KSK 125\_2PO6

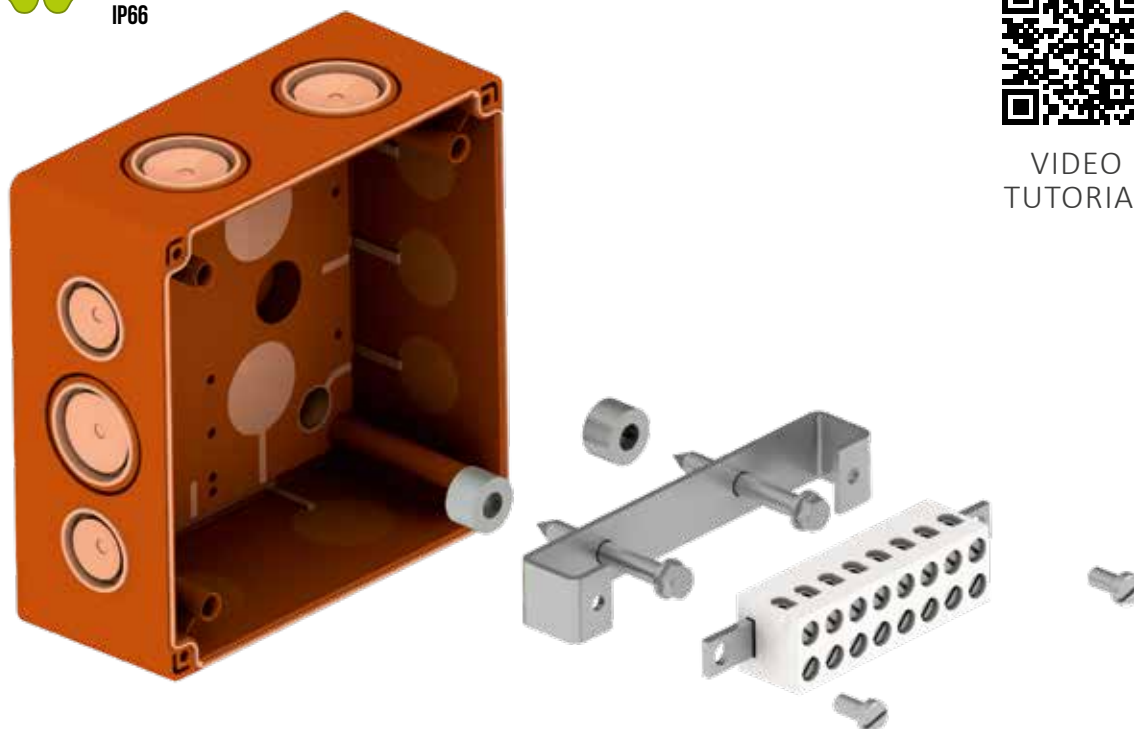


KSK 175\_2PO10



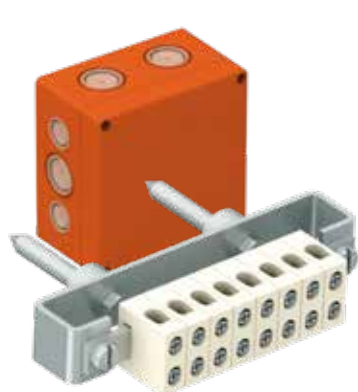
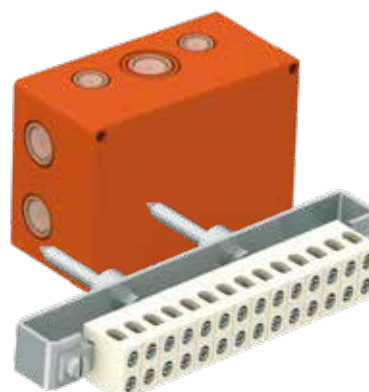
KSK 175\_2PO16

wiring boxes

**KSK** FOR DATA PURPOSESVIDEO  
TUTORIAL

- Softened inputs ensure easy cable passage
- The package includes concrete screws, stainless steel screws, support posts, a crossbar, and ceramic clamps
- Ceramic clamps include a metal plate to protect cable cores
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205

| Box Type    | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|-------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KSK 125_DPO | E90, P90-R, PS90               | 126 x 126 x 76 mm      | 8 pcs                    | 0,5 - 4 mm <sup>2</sup>  |
| KSK 175_DPO | E90, P90-R, PS90               | 176 x 126 x 90 mm      | 14 pcs                   | 0,5 - 4 mm <sup>2</sup>  |

**KSK 125\_DPO****KSK 175\_DPO**

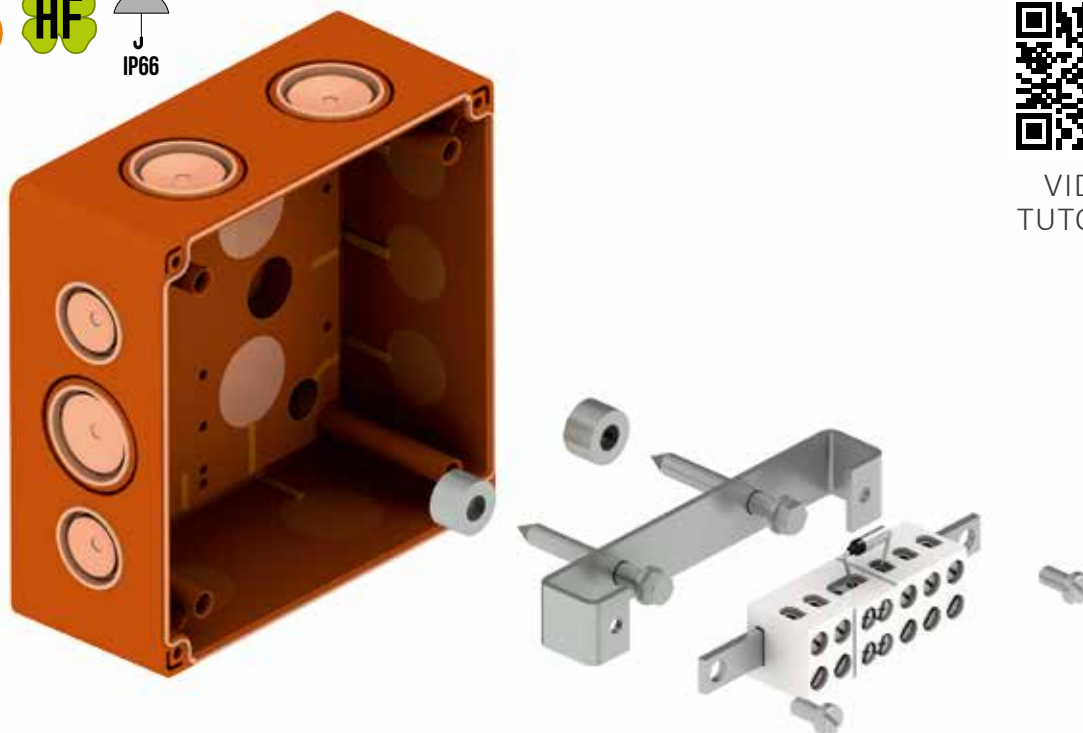


wiring boxes

## KSK WITH A FUSE



VIDEO  
TUTORIAL

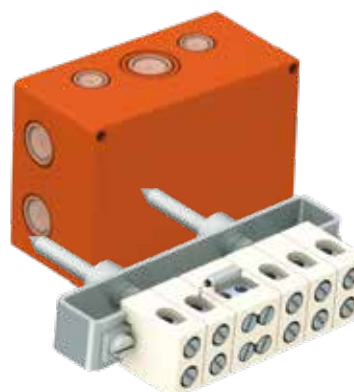


- Soft inputs ensure easy cable passage
- The package includes concrete screws, stainless steel screws, support posts, a crossbar, ceramic clamps, and a fuse
- Fuse disconnects secondary branch at temperatures that may no longer be safe for the device
- 10 A fuse, cut-off temperature 150 °C
- Protected by utility model
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205

| Box Type      | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|---------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KSK 125_PO6P  | E90, P90-R, PS90               | 126 x 126 x 76 mm      | 5 + 1 pcs (double)       | 1,5 - 6 mm <sup>2</sup>  |
| KSK 175_PO10P | E90, P90-R, PS90               | 176 x 126 x 90 mm      | 5 + 1 pcs (double)       | 1,5 - 10 mm <sup>2</sup> |



KSK 125\_PO6P

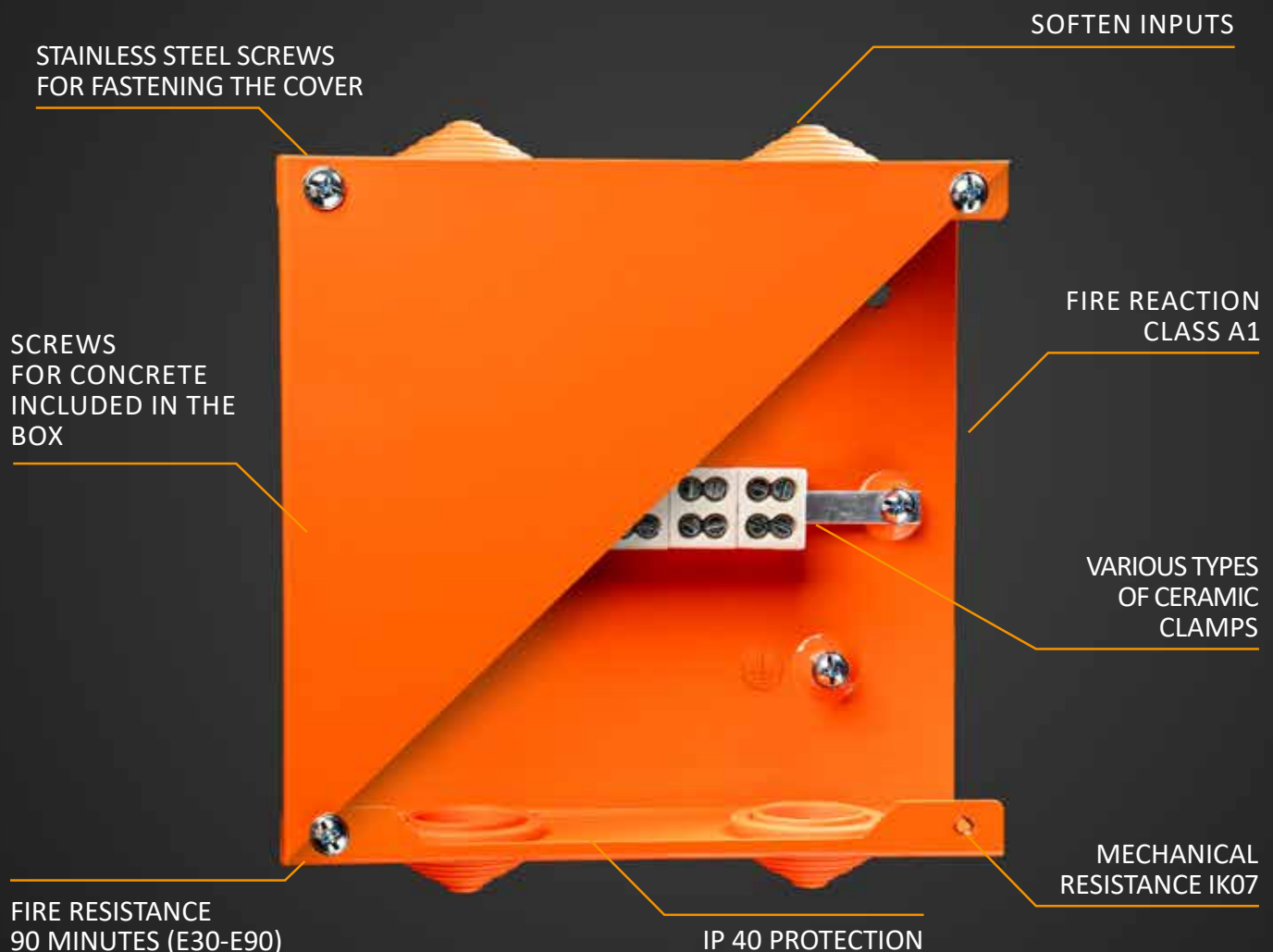


KSK 175\_PO10P

# ADVANTAGES OF FIRE RATED KPK METAL BOXES

KPK metal wiring boxes, which can withstand electrical current for up to 90 minutes in the event of a fire, are key elements to ensuring safety in critical situations. Thanks to their ability to function even at high temperatures, when other common electrical components fail, these boxes are widely used in special applications, including:

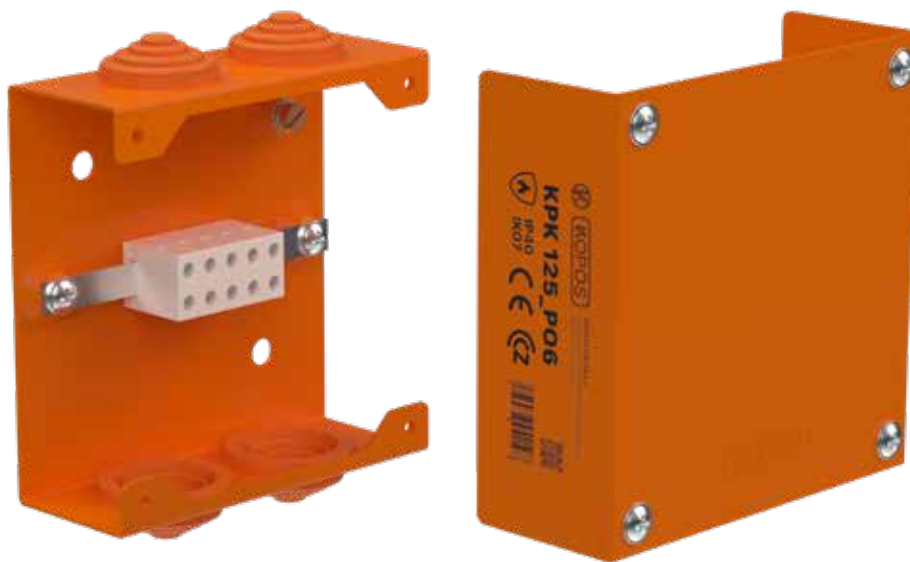
- **Emergency ventilation:** To ensure proper ventilation even during a fire, which helps minimize smoke and heat in critical areas.
- **Escape route lighting:** In the event of a power failure or fire, these lights in protected escape routes are crucial for safely leaving the building.
- **Fire door control:** Enables automatic closure of fire doors when a fire is detected, helping to isolate affected areas and prevent the spread of fire.
- **EPS (electronic fire alarm system) power supply:** Ensures that fire detection and alarm systems remain functional even in the event of a fire.





wiring metal boxes

# KPK FOR THREE-PHASE INSTALLATIONS

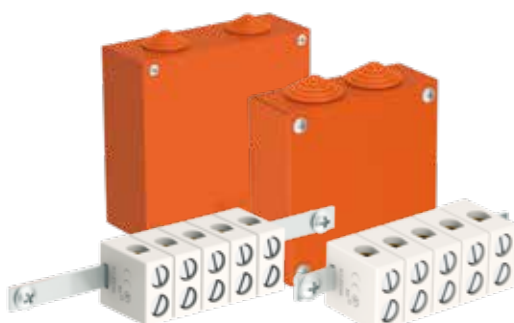
VIDEO  
TUTORIAL

- Easy cable passage thanks to fitted grommets made of softened halogen-free material
- Package contents: concrete screws, screws for attaching the cover and crossbar, ceramic clamps, brass screw for grounding
- Surface finish: coated with UV-resistant paint
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205
- Metal boxes can be nailed with suitable nails

| Box Type     | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|--------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KPK 125_PO6  | E90, P90-R, PS90               | 126 x 126 x 48 mm      | 5 pcs                    | 1,5 - 6 mm <sup>2</sup>  |
| KPK 125_PO10 | E90, P90-R, PS90               | 126 x 126 x 48 mm      | 5 pcs                    | 1,5 - 10 mm <sup>2</sup> |
| KPK 125_PO16 | E90, P90-R, PS90               | 126 x 126 x 48 mm      | 5 pcs                    | 1,5 - 16 mm <sup>2</sup> |
| KPK 200_PO10 | E90, P90-R, PS90               | 190 x 203 x 75 mm      | 5 pcs                    | 1,5 - 10 mm <sup>2</sup> |
| KPK 200_PO16 | E90, P90-R, PS90               | 190 x 203 x 75 mm      | 5 pcs                    | 1,5 - 16 mm <sup>2</sup> |

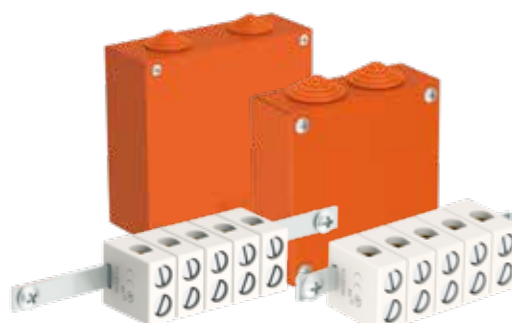


KPK 125\_PO6



KPK 200\_PO10

KPK 125\_PO10

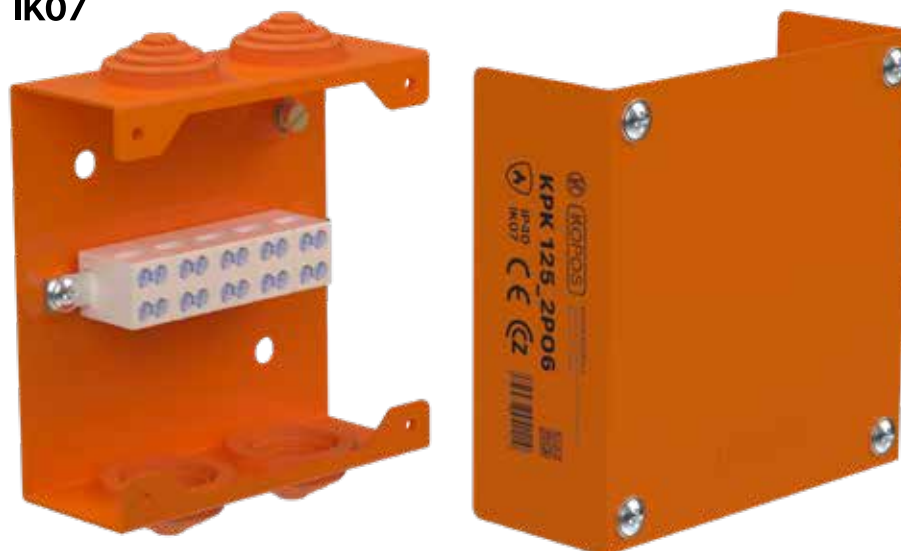


KPK 200\_PO16

KPK 125\_PO16

wiring metal boxes

# KPK FOR THREE-PHASE INSTALLATIONS WITH DOUBLE CLAMP

IP40  
IK07VIDEO  
TUTORIAL

- Easy cable passage thanks to fitted grommets made of softened halogen-free material
- Package contents: concrete screws, screws for attaching the cover and crossbar, double ceramic clamps, brass screw for grounding
- Surface finish: coated with UV-resistant paint
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205
- Metal boxes can be nailed with suitable nails

| Box Type      | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|---------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KPK 125_2PO6  | E90, P90-R, PS90               | 126 x 126 x 48 mm      | 5 pcs                    | 1,5 - 6 mm <sup>2</sup>  |
| KPK 200_2PO10 | E90, P90-R, PS90               | 190 x 203 x 75 mm      | 5 pcs                    | 1,5 - 10 mm <sup>2</sup> |
| KPK 200_2PO16 | E90, P90-R, PS90               | 190 x 203 x 75 mm      | 5 pcs                    | 1,5 - 16 mm <sup>2</sup> |



KPK 125\_2PO6



KPK 200\_2PO10

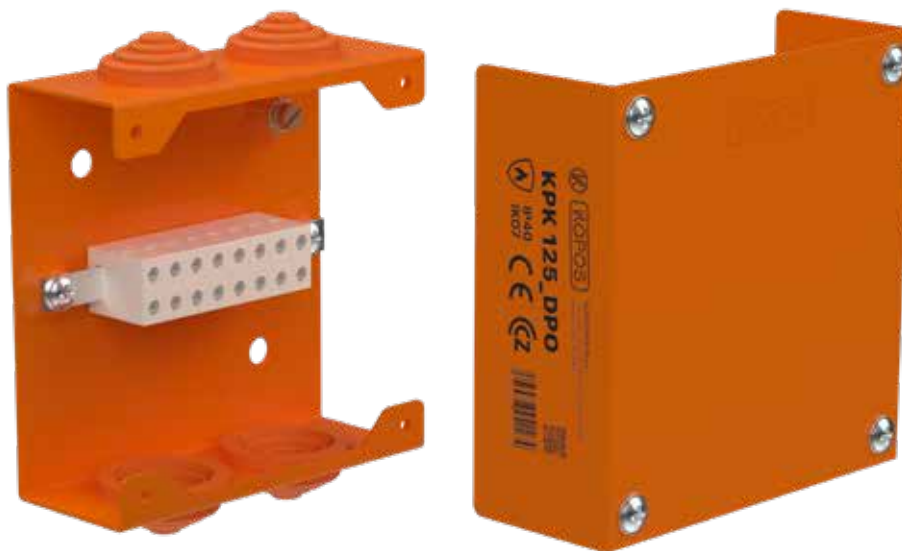


KPK 200\_2PO16



wiring metal boxes

# KPK FOR DISTRIBUTION SYSTEMS

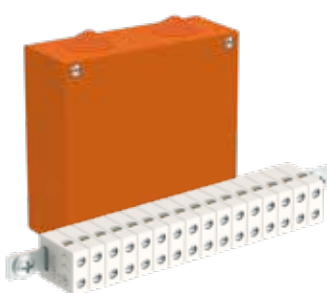
VIDEO  
TUTORIAL

- Easy cable passage thanks to fitted grommets made of softened halogen-free material
- Package contents: concrete screws, screws for attaching the cover and crossbar, ceramic data terminals brass screw for grounding
- Surface finish: coated with UV-resistant paint
- Complies with standards: ČSN 73 0895, DIN 4102-12, STN 92 0205
- Metal boxes can be nailed with suitable nails

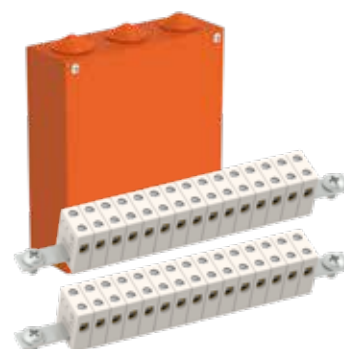
| Box Type      | Fire Resistance Classification | Box Dimensions (HxWxD) | Number of Ceramic Clamps | Conductors Cross Section |
|---------------|--------------------------------|------------------------|--------------------------|--------------------------|
| KPK 125_DPO   | E90, P90-R, PS90               | 126 x 126 x 48 mm      | 8 pcs                    | 0,5 - 4 mm <sup>2</sup>  |
| KPK 200_DPO16 | E90, P90-R, PS90               | 190 x 203 x 75 mm      | 16 pcs                   | 0,5 - 4 mm <sup>2</sup>  |
| KPK 250_DPO30 | E90, P90-R, PS90               | 223 x 250 x 75 mm      | 30 pcs                   | 0,5 - 4 mm <sup>2</sup>  |



KPK 125\_DPO



KPK 200\_DPO16



KPK 250\_DPO30

spare part

# CERAMIC CLAMPS

- Separate ceramic terminals as spare parts for KSK and KPK boxes with functionality in case of fire
- Interchangeability of all terminals, in case that other parameters of KSK boxes remain unchanged
- **Separate ceramic terminals do not form a fire-resistant route**



| simple clamps | height<br>(mm) | width<br>(mm) | length<br>(mm) | for cross-section<br>of conductors |
|---------------|----------------|---------------|----------------|------------------------------------|
| KS_PO         | 25             | 8,5           | 20             | up to 6 mm <sup>2</sup>            |
| KS_PO10       | 24             | 12,6          | 24             | up to 10 mm <sup>2</sup>           |
| KS_PO16       | 27,5           | 15            | 27,5           | up to 16 mm <sup>2</sup>           |



| double clamps | height<br>(mm) | width<br>(mm) | length<br>(mm) | for cross-section<br>of conductors |
|---------------|----------------|---------------|----------------|------------------------------------|
| KS_2PO6       | 25             | 16            | 20             | 2 cables up to 6 mm <sup>2</sup>   |
| KS_2PO10      | 25             | 24            | 20             | 2 cables up to 10 mm <sup>2</sup>  |
| KS_2PO16      | 33             | 28            | 33             | 2 cables up to 16 mm <sup>2</sup>  |



| simple clamps | height<br>(mm) | width<br>(mm) | length<br>(mm) | for cross-section<br>of conductors |
|---------------|----------------|---------------|----------------|------------------------------------|
| KS_PO4J       | 16             | 18            | 33             | up to 4 mm <sup>2</sup>            |
| KS_PO6J       | 18             | 19            | 36             | up to 6 mm <sup>2</sup>            |
| KS_PO10J      | 20             | 21            | 36             | up to 10 mm <sup>2</sup>           |



| data terminal | height<br>(mm) | width<br>(mm) | length<br>(mm) | for cross-section<br>of conductors |
|---------------|----------------|---------------|----------------|------------------------------------|
| KS_DPO        | 25             | 8,5           | 20             | up to 4 mm <sup>2</sup>            |



| grounding clamp | height<br>(mm) | width<br>(mm) | length<br>(mm) | for cross-section<br>of conductors |
|-----------------|----------------|---------------|----------------|------------------------------------|
| KSPE_PO         | 41,6           | 11,5          | 16             | up to 25 mm <sup>2</sup>           |

# THERMAL FUSE

TP\_PO



- possibility of equipping KSK and KPK boxes with multiple fuses, in case that the other parameters of the boxes remain unchanged
- current load 10 A, thermal load max. 150 °C

# K-PULSA\_PO



**1** SETTING THE DEPTH OF THE NAIL IN THE MATERIAL

**2** NAIL GUIDE WITH MAGNETIC ATTACHMENT OPTION

**3** NAILER CERTIFICATION: EN 12549, EN ISO 11148-13 E

**4** LOW WEIGHT OF THE GUN, ONLY 3.4 KG

**5** MAGAZINE FOR 20 NAILS

**6** SUPPORT FOOT ENSURES PERPENDICULARITY OF THE SHOT INTO THE MATERIAL

**7** GAS FILL LEVEL AND BATTERY CHARGE INDICATOR

**8** LITHIUM-ION TECHNOLOGY CAPACITY 2.9 AH

**9** BATTERY CAPACITY UP TO 10,000 SHOTS

**10** GAS CARTRIDGE CAPACITY UP TO 750 SHOTS

**11** IMPACT FORCE AT FIRE 95 J

gas nail gun

## K-PULSA\_PO



The gas nail gun ensures maximum comfort for installers when nailing fire-resistant clamps. Its compact and slim shape is also ideal for working close to corners and in narrow spaces. The nails are always supplied with a gas cartridge. The accessories are certified according to ČSN 73 0895 for up to 90 minutes in case of fire.



### Accessories

#### PACKAGE OF NAILS WITH GAS CARTRIDGE



+

for concrete C20/25 to C60/70,  
prestressed concrete and steel

| item          | MOQ     | length (mm) |
|---------------|---------|-------------|
| KHO HC6-15_PO | 500 pcs | 15          |
| KHO HC6-17_PO | 500 pcs | 17          |
| KHO HC6-22_PO | 500 pcs | 22          |



+

for concrete C20/25 to C30/37,  
solid masonry

| item         | MOQ     | length (mm) |
|--------------|---------|-------------|
| KHB C6-20_PO | 500 pcs | 20          |
| KHB C6-25_PO | 500 pcs | 25          |



+

residue-free, for concrete  
C20/25 to C30/37, steel

| item            | MOQ     | length (mm) |
|-----------------|---------|-------------|
| KHO HC6-15FH_PO | 500 pcs | 15          |
| KHO HC6-17FH_PO | 500 pcs | 17          |
| KHO HC6-22FH_PO | 500 pcs | 22          |

#### MAGNETIC ATTACHMENT MVH P800\_PO



#### MAGNET FOR NAIL SHOOTING MAGNET\_PO

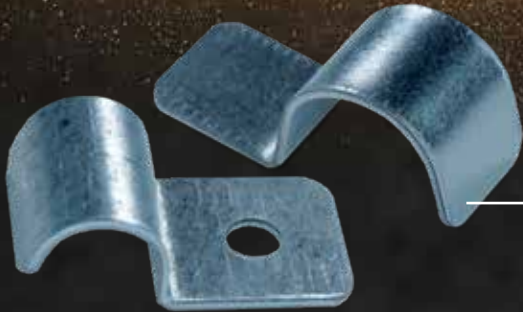


#### GAS CARTRIDGE PLYN\_PO





# ***FIRE RESISTANT CLAMPS***



***SINGLE-SIDED***

***DOUBLE-SIDED***





accessories

## CABLE CLAMPS

designed for nail shooting



K-Pulsa\_PO

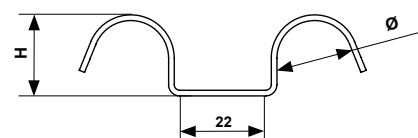
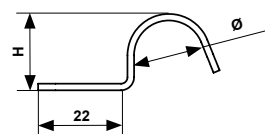
- Single-sided clamps are designed for cables with a diameter of 6 mm to 25 mm
- Double-sided clips are designed for cables with a diameter of 8 mm to 16 mm
- For standard and non-standard routes
- Surface finishes: continuous zinc coating or zinc micro-lamellas

| single-sided clamps | Ø clamp | H (mm) | Ø cable (mm) |
|---------------------|---------|--------|--------------|
| 6706_PO             | 6       | 7,2    | 4 - 6        |
| 6708_PO             | 8       | 9,2    | 6 - 8        |
| 6710_PO             | 10      | 11,2   | 8 - 10       |
| 6712_PO             | 12      | 13,2   | 10 - 12      |
| 6714_PO             | 14      | 15,2   | 12 - 14      |
| 6716E_PO            | 16      | 17,2   | 14 - 16      |
| 6718_PO             | 18      | 19,5   | 16 - 18      |
| 6720_PO             | 20      | 21,5   | 18 - 20      |
| 6722_PO             | 22      | 23,5   | 20 - 22      |
| 6725_PO             | 25      | 26,5   | 23 - 25      |

| double-sided clamps | Ø clamp | H (mm) | Ø cable (mm) |
|---------------------|---------|--------|--------------|
| 6708D_PO            | 8       | 9      | 6 - 8        |
| 6710D_PO            | 10      | 11     | 8 - 10       |
| 6712D_PO            | 12      | 13,2   | 10 - 12      |
| 6716ED_PO           | 16      | 17,2   | 12 - 14      |

| double-sided clamps without a hole | Ø clamp | H (mm) | Ø cable (mm) |
|------------------------------------|---------|--------|--------------|
| 6708D_POBD                         | 8       | 9      | 6 - 8        |
| 6710D_POBD                         | 10      | 11     | 8 - 10       |
| 6712D_POBD                         | 12      | 13,2   | 10 - 12      |

| single-sided clamps without a hole | Ø clamp | H (mm) | Ø cable (mm) |
|------------------------------------|---------|--------|--------------|
| 6706_POBD                          | 6       | 7,2    | 4 - 6        |
| 6708_POBD                          | 8       | 9,2    | 6 - 8        |
| 6710_POBD                          | 10      | 11,2   | 8 - 10       |
| 6712_POBD                          | 12      | 13,2   | 10 - 12      |
| 6714_POBD                          | 14      | 15,2   | 12 - 14      |
| 6716E_POBD                         | 16      | 17,2   | 14 - 16      |
| 6718_POBD                          | 18      | 19,5   | 16 - 18      |
| 6720_POBD                          | 20      | 21,5   | 18 - 20      |
| 6722_POBD                          | 22      | 23,5   | 20 - 22      |
| 6725_POBD                          | 25      | 26,5   | 23 - 25      |





accessories

# FOR NAIL SHOOTING

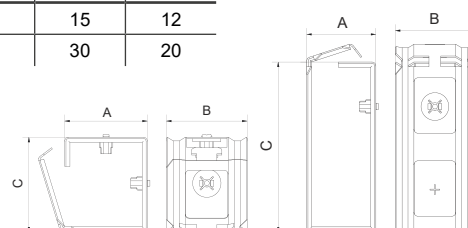
## GROUP BRACKETS



- bracket for quick mounting of cables on walls or ceilings by nail shooting
- allows easy addition of routes and installation of cables of various diameters
- maximum load capacity 4.8 kg/m, recommended bracket spacing 300 – 600 mm

Max. number of cables inserted

| Item No. | A (mm) | B (mm) | C (mm) | Ø6 | Ø8 | Ø10 |
|----------|--------|--------|--------|----|----|-----|
| SD 1_PO  | 47     | 40     | 41     | 30 | 15 | 12  |
| SD 3_PO  | 35     | 40     | 87     | 40 | 30 | 20  |

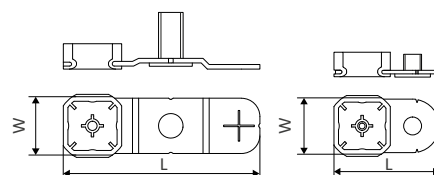


## HANGERS



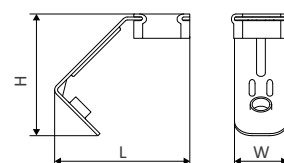
- metal hanger with internal thread M6/M8 for DOBRMAN and OMEGA clamps
- application by nail shooting into the ceiling
- ideal for mounting in concrete or solid masonry

| Item No. | thread type | Load (kg) | L (mm) | W (mm) |
|----------|-------------|-----------|--------|--------|
| UVD 6_PO | M6          | 30        | 36     | 20,5   |
| UVD 8_PO | M6          | 50        | 65     | 20,5   |

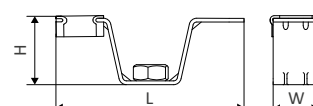


- Metal hanger for anchoring threaded rods to the ceiling with a plastic part for easy one-handed installation
- Designed for mounting in concrete or solid masonry

| Item No. | thread type | Load (kg) | H (mm) | L (mm) | W (mm) |
|----------|-------------|-----------|--------|--------|--------|
| ZZT 6_PO | M6          | 30        | 41     | 46     | 18     |



| Item No. | thread type | Load (kg) | H (mm) | L (mm) | W (mm) |
|----------|-------------|-----------|--------|--------|--------|
| ZZT 8_PO | M8          | 50        | 26,5   | 75     | 18     |







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