

HENSEL

PASSION FOR POWER.

The new cable junction boxes

The evolution of the original.

Level 3 - for intrinsic fire resistance



1931

ENYCASE[®]



2015

www.enycase.eu



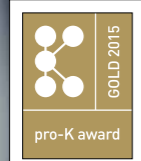
The Hensel cable junction box: A success story!

Since its founding, Gustav Hensel GmbH und Co. KG has continuously met the challenges of the times! The invention of the first cable junction box made of thermoset plastics in 1931 revolutionised an entire generation's everyday work routine: A multitude of installation tasks could be solved in a most simple method. A convenience that has become indispensable by now and the start of an unprecedented success story.

The evolution of the original: ENYCASE®

We have raised the original to the next level of evolution, followed up on impulses from practical experience and rendered them in the form of new features in the ENYCASE cable junction boxes. They are the embodiment of our very own competency because our know-how flourishes particularly in demanding settings, under difficult conditions, in industry and trade.

The series of innovative and high-quality junction boxes made of state-of-the-art materials are manufactured by means of pioneering production procedures. Our products have made their case for many generations. It is our claim to always continue the development and optimise our original for you.



Reliable power supply even in the event of fire.

FK cable junction boxes meet intrinsic fire protection requirements and keep emergency power supply in operation for at least 30 -90 minutes.



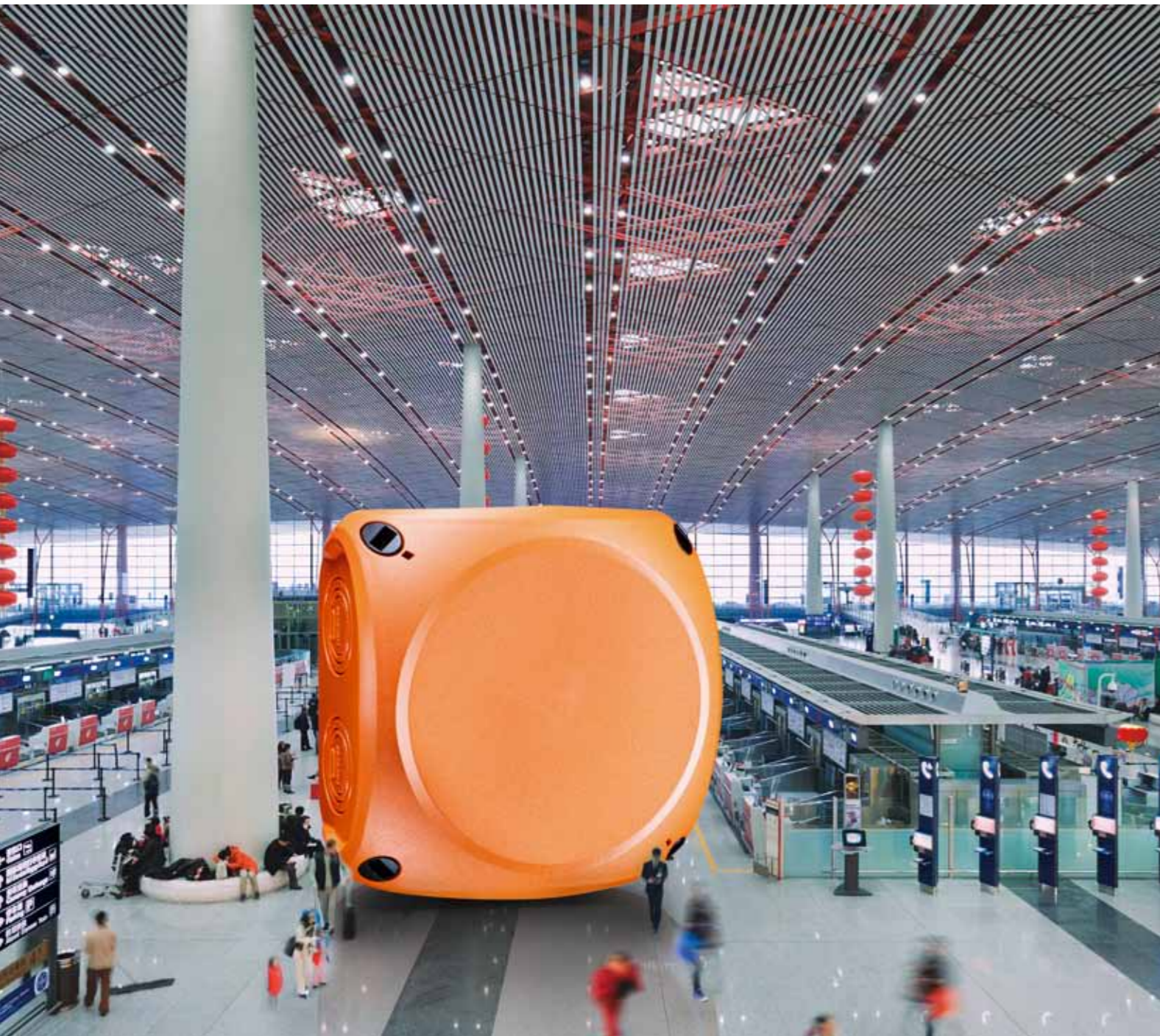
■ Included as standard: screw anchors, high-temperature-resistant ceramic terminal E 30 - E 90 and cable entries



■ Multi-level knockouts in different sizes for cable glands



■ Closes quickly by a quarter turn – closing position visible at a single glance



Reliable power supply - even in the event of fire!

- cable junction boxes approved for intrinsic fire resistance
- degree of protection IP 65 / IP 66
- box made of thermoplast, orange RAL 2003
- no toxic or corrosive emissions
- intrinsic fire resistance according to DIN 4102 part 12 (German standard) in connection with function-retaining cables of 1.5-16 mm²



Planning process for intrinsic fire resistance

1. Requirements

Country-specific requirements and national laws have to be observed!

The relevant regional regulations of legislators, fire brigades or similar services, which are placed on the building and its use must be observed.

2. Intrinsic fire resistance or insulation integrity in the event of fire?

Country-specific requirements and national laws have to be observed!

Are there requirements for
 - intrinsic fire resistance in electrical installations or
 - insulation integrity FE 180 according to VDE 0472 Part 814, IEC 331?

3. Selection of material

Country-specific requirements and national laws have to be observed!

In Germany selection is carried out according to
 1st intrinsic fire resistance E 30 / E 90
 2nd cable junction or cable connection
 3rd installation procedure in buildings
 4th type of cable installation
 5th anchoring method on the building material
 6th approval of materials according to certificate

4. Manufacturer

Country-specific requirements and national laws have to be observed!

In Germany the selection of cable manufacturer is carried out according to
 1. type of cable installation
 2. required cable junction / cable connection

5. Operating

Professional execution of the installation work.

- Connecting terminal made from ceramic with resistance to high temperatures
- IP 66 using AKMF cable glands, please order separately
- Intrinsic fire resistance in accordance with DIN 4102 Part 12 (German standard) in combination with function-retaining cables
- Tested with the cable manufacturer Dätwyler for the intrinsic fire resistance E30 up to E90, see test certificate no.: P-MPA-E-15-018, download available from www.hensel-electric.de > type - documents
- Screw anchors enclosed can be used for concrete C20/25, limestone blocks KSV 12, building bricks MZ 12 and clinker bricks KS 12
- For normal environment and protected outdoor

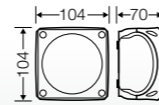


FK 0402

Cable junction box 1.5 mm², Cu
Connection box 1.5-2.5 mm², Cu

- 5-pole per pole 4 x 1.5 mm² sol and 2 x 2.5 mm² sol
- included cable entry: 3 EDKF 25, sealing range: Ø 9-17 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	24 A

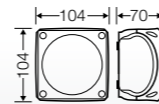


FK 0404

Cable junction box 1.5-2.5 mm², Cu
Connection box 1.5-4 mm², Cu

- 5-pole per pole 8 x 1.5 mm² sol, 4 x 2.5 mm² sol, 2 x 4 mm² sol
- included cable entry: 3 EDKF 25, sealing range: Ø 9-17 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	32 A

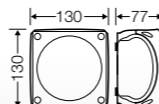


FK 0604

Cable junction box 1.5-2.5 mm², Cu
Connection box 1.5-6 mm², Cu

- 5-pole per pole 8 x 1.5 mm² sol, 4 x 2.5 mm² sol, 2 x 4 mm² sol, 2 x 6 mm² sol
- included cable entry: 3 EDKF 32, sealing range: 8-23 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	41 A

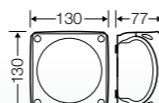


FK 0606

Cable junction box 1.5-6 mm², Cu
Connection box 1.5-6 mm², Cu

- 5-pole per pole 12 x 1.5 mm² sol, 8 x 2.5 mm² sol, 6 x 4 mm² sol, 4 x 6 mm² sol
- included cable entry: 3 EDKF 32, sealing range: 8-23 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	41 A

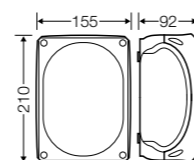


FK 1606

Cable junction box 1.5-6 mm², Cu
Connection box 1.5-6 mm², Cu

- 5 terminals per pole 12 x 1,5 mm² sol, 8 x 2,5 mm² sol, 6 x 4 mm² sol, 4 x 6 mm² sol
- terminal for 4 x 1,5 mm² sol or 2 x 2,5 mm² sol and PE terminal
- included cable entry: 3 EDKF 32, sealing range: 8-23 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	41 A



- Connecting terminal made from ceramic with resistance to high temperatures
- IP 66 using AKMF cable glands, please order separately
- Intrinsic fire resistance in accordance with DIN 4102 Part 12 (German standard) in combination with function-retaining cables
- Tested with the cable manufacturer Dätwyler for the intrinsic fire resistance E30 up to E90, see test certificate no.: P-MPA-E-15-018, download available from www.hensel-electric.de > type - documents
- Screw anchors enclosed can be used for concrete C20/25, limestone blocks KSV 12, building bricks MZ 12 and clinker bricks KS 12
- For normal environment and protected outdoor

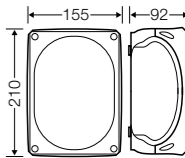


FK 1608

Cable junction box 1.5 mm², Cu
Connection box 1.5-2.5 mm², Cu

- 10-pole per pole 4 x 1.5 mm² sol and 2 x 2.5 mm² sol
- included cable entry: 4 EDKF 25, sealing range: Ø 9-17 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	24 A

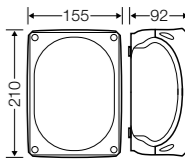


FK 1610

Cable junction box 1.5-2.5 mm², Cu
Connection box 1.5-10 mm², Cu

- 5-pole per pole 8 x 1.5 mm² sol, 4 x 2.5 mm² sol, 2 x 4 mm² sol, 2 x 6 mm² sol, 2 x 10 mm² sol
- included cable entry: 3 EDKF 32, sealing range: 8-23 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	57 A

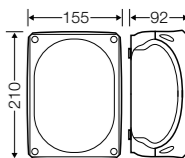


FK 1616

Cable junction box 1.5-6 mm², Cu
Connection box 1.5-16 mm², Cu

- 5-pole per pole 12 x 1.5 mm² sol, 8 x 2.5 mm² sol, 6 x 4 mm² sol, 4 x 6 mm² sol, 2 x 10 mm² sol, 2 x 16 mm² r
- included cable entry: 3 EDKF 40, sealing range: 11-30 mm, IP 65

rated insulation voltage	U _i = 400 V a.c./d.c.
current carrying capacity	76 A



DK Cable junction boxes
Approved for intrinsic fire resistance
Cable entry

DK Cable junction boxes
Approved for intrinsic fire resistance
Cable entry



AKMF 20

Cable glands for knockouts M 20

- sealing range Ø 6,5-13,5 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.3 mm
- wall thickness up to 3 mm
- with strain relief and locknut
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25 °C to + 55 °C
- glow wire test IEC 60695-2-11: 960 °C

tightening torque	4.0 Nm
-------------------	--------



EDKF 20

Grommets for knockouts M 20

- sealing range: Ø 6-13 mm
- bore-hole: Ø 20.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35 °C
- glow wire test IEC 60 695-2-11: 750 °C

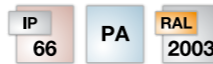


AKMF 25

Cable glands for knockouts M 25

- sealing range Ø 11-17 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.3 mm
- wall thickness up to 3 mm
- with strain relief and locknut
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25 °C to + 55 °C
- glow wire test IEC 60695-2-11: 960 °C

tightening torque	7.5 Nm
-------------------	--------



EDKF 25

Grommets for knockouts M 25

- sealing range: Ø 9-17 mm
- bore-hole: Ø 25.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35 °C
- glow wire test IEC 60 695-2-11: 750 °C

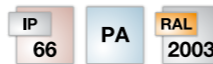


AKMF 32

Cable glands for knockouts M 32

- sealing range Ø 15-21 mm
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.3 mm
- wall thickness up to 3 mm
- with strain relief and locknut
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25 °C to + 55 °C
- glow wire test IEC 60695-2-11: 960 °C

tightening torque	10.0 Nm
-------------------	---------



EDKF 32

Grommets for knockouts M 32

- sealing range: Ø 8-23 mm
- bore-hole: Ø 32.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35 °C
- glow wire test IEC 60 695-2-11: 750 °C

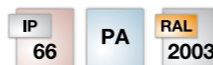


AKMF 40

Cable glands for knockouts M 40

- sealing range: Ø 19-28 mm
- ISO thread M 40 x 1.5
- bore-hole: Ø 40.3 mm
- wall thickness up to 3 mm
- with strain relief and locknut
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25 °C to + 55 °C
- glow wire test IEC 60695-2-11: 960 °C

tightening torque	10.0 Nm
-------------------	---------



EDKF 40

Grommets for knockouts M 40

- sealing range: Ø 11-30 mm
- bore-hole: Ø 40.5 mm
- wall thickness 1.5-3.5 mm
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35 °C
- glow wire test IEC 60 695-2-11: 750 °C





Level 1: weatherproof - for outdoor installation



Level 2: waterproof - for encapsulating



Level 3: for intrinsic fire resistance

The Company



Headquarters in Germany

Representations abroad

Africa

Angola
Egypt
Kenya
Mozambique
South Africa

America

USA

Asia

Bangladesh
Bhutan
China
India
Indonesia
Japan
Kazakhstan
Malaysia
Maldives
Myanmar
Pakistan
Philippines
Singapore
Sri Lanka
Taiwan
Thailand

Europe

Austria
Belgium
Croatia
Czech Republic
Denmark
Estonia
Finland
France

Great Britain

Hungary
Iceland
Ireland
Israel
Italy
Latvia
Lithuania
Luxembourg
Montenegro
Netherlands
Norway
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Spain
Sweden
Switzerland
Turkey
Ukraine

Middle East

United Arab Emirates
Bahrain
Iran
Kuwait
Oman
Qatar
Saudi Arabia

Oceania

Australia
New Zealand

Subsidiaries abroad

Czech Republic

Hensel s.r.o.
www.hensel-electric.cz

Hungary

Hensel Hungaria Villamossági Kft.
www.hensel.hu

Poland

Hensel Polska Sp. z o. o.
www.hensel.com.pl

Russia

OOO Hensel + Mennekes Elektro
www.hensel-electric.ru

India

Hensel Electric India Pvt. Ltd
www.hensel-electric.in

Turkey

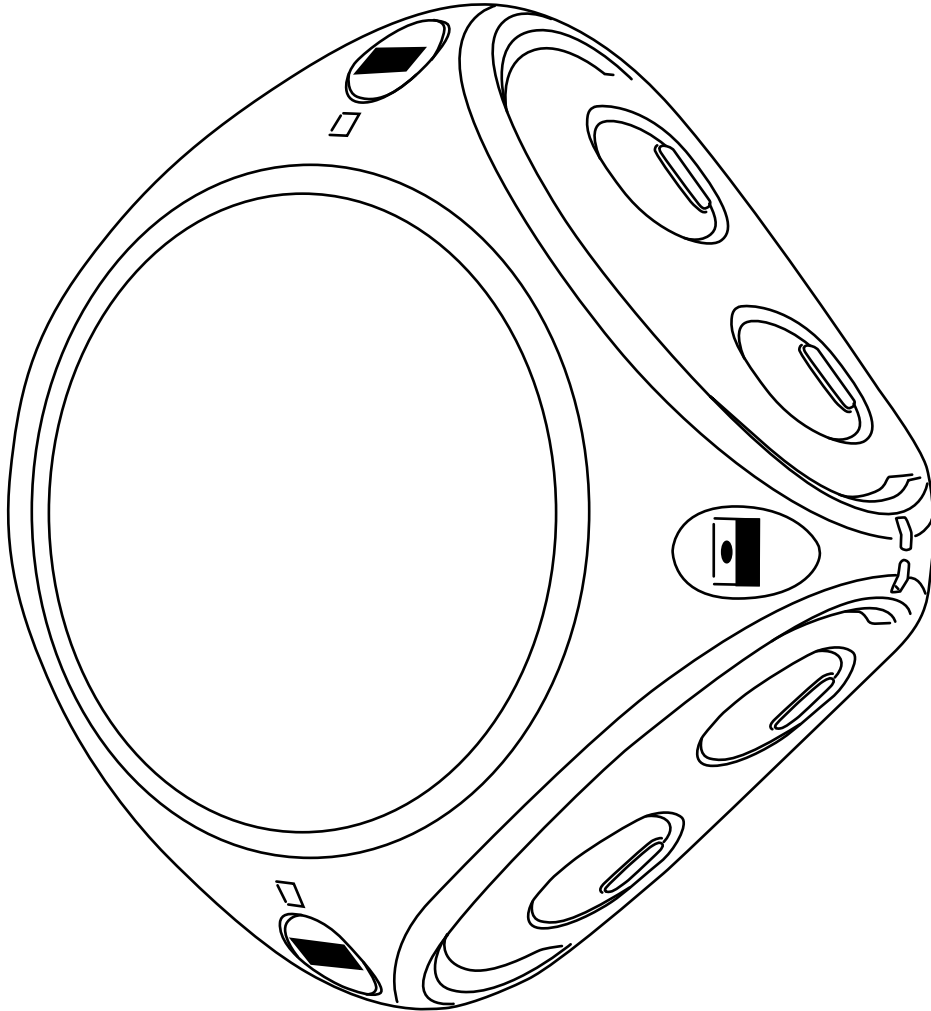
Hensel Electric Turkey Ltd.
www.hensel-electric.com.tr

People's Republic of China

Hensel (Qingdao)
Electrical Installation and
Distribution Systems Co. Ltd
www.hensel-electric.cn



The addresses of our international subsidiaries and sales partners are on the Internet at www.hensel-electric.de -> Contact



Gustav Hensel GmbH & Co. KG
Gustav-Hensel-Str. 6
D-57368 Lennestadt, Germany
Phone: +49 (0) 27 23-609-0
Fax: +49 (0) 27 23-600-52

E-Mail: info@hensel-electric.de
www.hensel-electric.de

98 17 1030 10.15/3/11

 made in **GERMANY**
since 1931