Universal equipment carrier

Universal equipment carrier for securely attaching electrical installations in or to heat-insulating external facades. Stable attachment of external lights, sockets, motion detectors, external temperature sensors, radio receivers, anemometers, cameras, letter boxes and much more.

- Secure attachment of various equipment to or in insulated external facades.
- Prevents heat bridges
- Quick installation with snap-in connections
- For insulation thicknesses of 60 to 360 mm

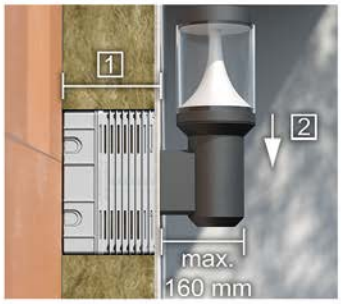
halogen-free

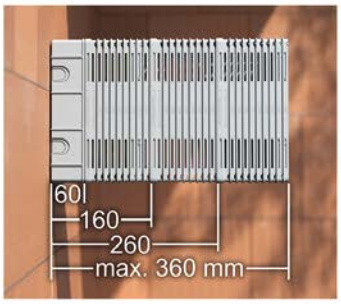
Examples of use

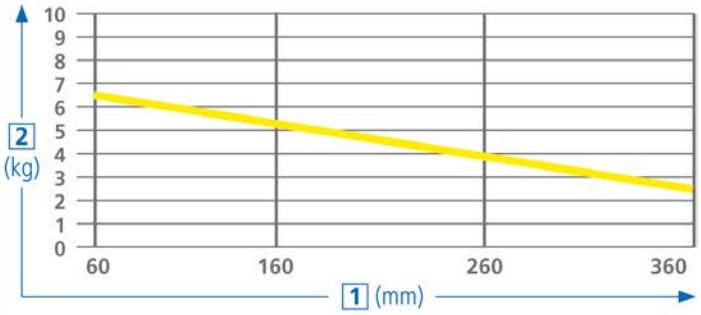



Processing instructions

Weight-bearing load dependent on the insulation thickness. The universal equipment carrier is only suitable for vertical installation (upright)!

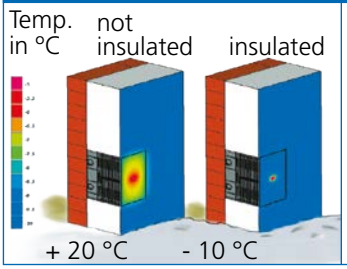






1 External insulation - insulation thickness | **2** Permissible load

Heat bridge calculation



When the equipment carrier is correctly installed, hardly any heat losses are measured.

Calculation and source:
PASSIV HAUS INSTITUT
Dr. W. Feist

[mm]	insulated [m²]	not insulated [m²]
160	0.027	0.300
360	0.039	0.520

Installation

Align the housing base vertically on the wall and screw tight using suitable fixing material.

If necessary, adjust the extension element to suit the insulation thickness.

Fit the rock wool provided. (supplied)

Fit the mounting plate (closing clip underneath) and close.

Universal equipment carrier

Product-Data

- for use with externally-insulated walls
- for secure fixing of lights, intercoms, motion detectors etc.
- can be extended in steps of 100 mm each (max. 360 mm) using extension elements Art. No. 1159-27
- can be reduced in 10 mm steps
- With pre-cut rock wool parts through which the equipment carrier can be fed

Length x Width x Height	**220 x 100 x 60-160 mm**
Combination conduit entries M20/25	6
Halogen-free	Yes
650 °C /	Yes / Yes
Art.-No.	**1159-24**
Inner packaging/shipping	- / 5

Extension element

- to extend the Universal equipment carrier by 100 mm simply by latching on
- can be reduced in 10 mm steps by cutting
- with rock wool pre-cut parts to fill the extension panel

Length x Width x Depth	**220 x 100 x 100 mm**
Halogen-free	Yes
Art.-No.	**1159-27**
Inner packaging/shipping	- / 5

Universal equipment carrier with combination insert

Universal equipment carrier with combination insert for the installation of entryphones and installation accessories on the insulated external facade. The perfect basis for intercoms, sockets, switches and much more, and also for two-unit and three-unit combinations.

- Guarantees installation without heat bridges
- For entryphones and variable accessory installation combinations of 1 to 3 units
- For future expansion without damaging the external facade
- For insulation thicknesses up to 360 mm

halogen-free | 650 °C

Examples of use

The product is suitable for single, double or triple combinations...

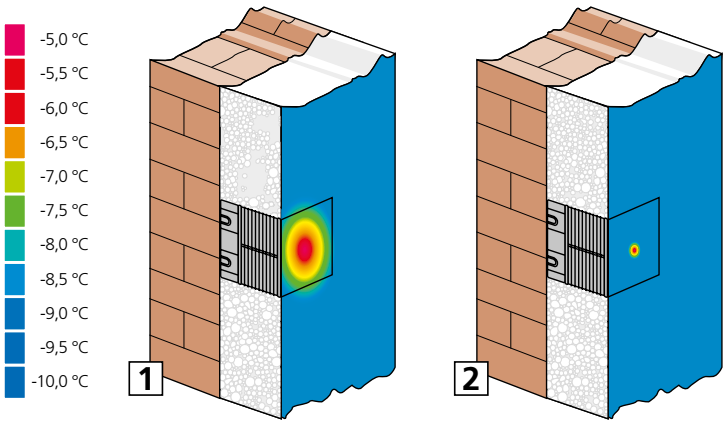
...and also permits future expansion without damage to the facade.

The equipment carrier with combination insert can be...

...mounted horizontally or vertically.

Heat bridge calculation

If installed correctly, heat losses are hardly measurable. Calculation and source: inside: +20°C, outside: -10°C | PASSIV HAUS INSTITUT Dr. W. Feist



1 not insulated | **2** insulated

Installation


Define location on the wall and mark it.


Screw the housing base to the wall.


If necessary, adjust the extension element to suit the insulation thickness.


Attach the extension element and snap it into place.


Fit the rock wool insulation (supplied).


Position the combination insert (mounting clip at bottom) and snap into place.


The installation can now be fitted and installed.


After applying the plaster, attach the desired accessory.

Universal equipment carrier with combination insert

- for use with externally-insulated walls
- For secure mounting of intercoms, switches, sockets and many more
- Can be extended in steps of 100 mm using extension element
- With pre-cut rock wool parts through which the equipment carrier can be fed

3D animation

Product-Data

Length x Width x Depth	**220 x 100 x 160 mm**
DIN EN conduit Ø	max. 25 mm
Cable entries	max. Ø 15 mm
Insulation thickness	60 - 160 mm
Halogen-free	Yes
Art.-No.	**1159-26**
Inner packaging/shipping	- / 5

Extension element

- to extend the Universal equipment carrier by 100 mm simply by latching on
- can be reduced in 10 mm steps
- with rock wool pre-cut parts to fill the extension panel

Length x Width x Depth	**220 x 100 x 100 mm**
Halogen-free	Yes
Art.-No.	**1159-27**
Inner packaging/shipping	- / 5

System equipment carrier

The system equipment carrier is designed to fit perfectly into the external insulation and, in this way, reliably prevents heat bridges. Fast, easy fixing using the screw dowels included in the scope of delivery permanently anchors the equipment carrier securely to many surfaces. Ideal for stable fixing of external lamps, sockets, door intercom devices, and many more. In doing so, high weight-bearing loads are not a problem.

- Extra-fast, easy installation
- Two product types allow a wide range of applications
- Heat bridges are efficiently prevented
- Adaptable to insulation thickness in 10 mm steps – no cutting necessary
- Modular design for insulation thicknesses from 160 to 310 mm

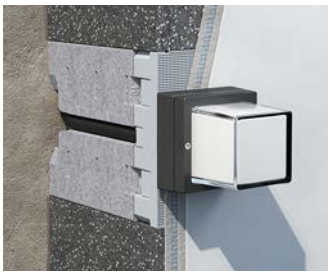
halogen-free

Application examples

The system equipment carrier with combination is suitable for 1-way...

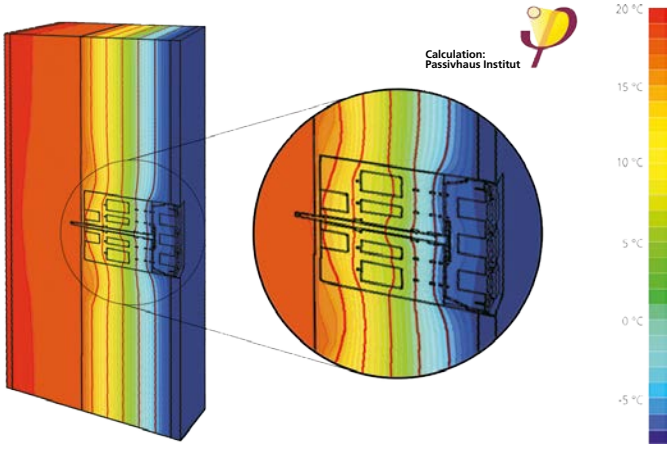
...2-way and 3-way combinations. Unused one-gang boxes can be used for future extensions without damaging the facade.

The system equipment carrier as a equipment carrier can be used as a cable exit...



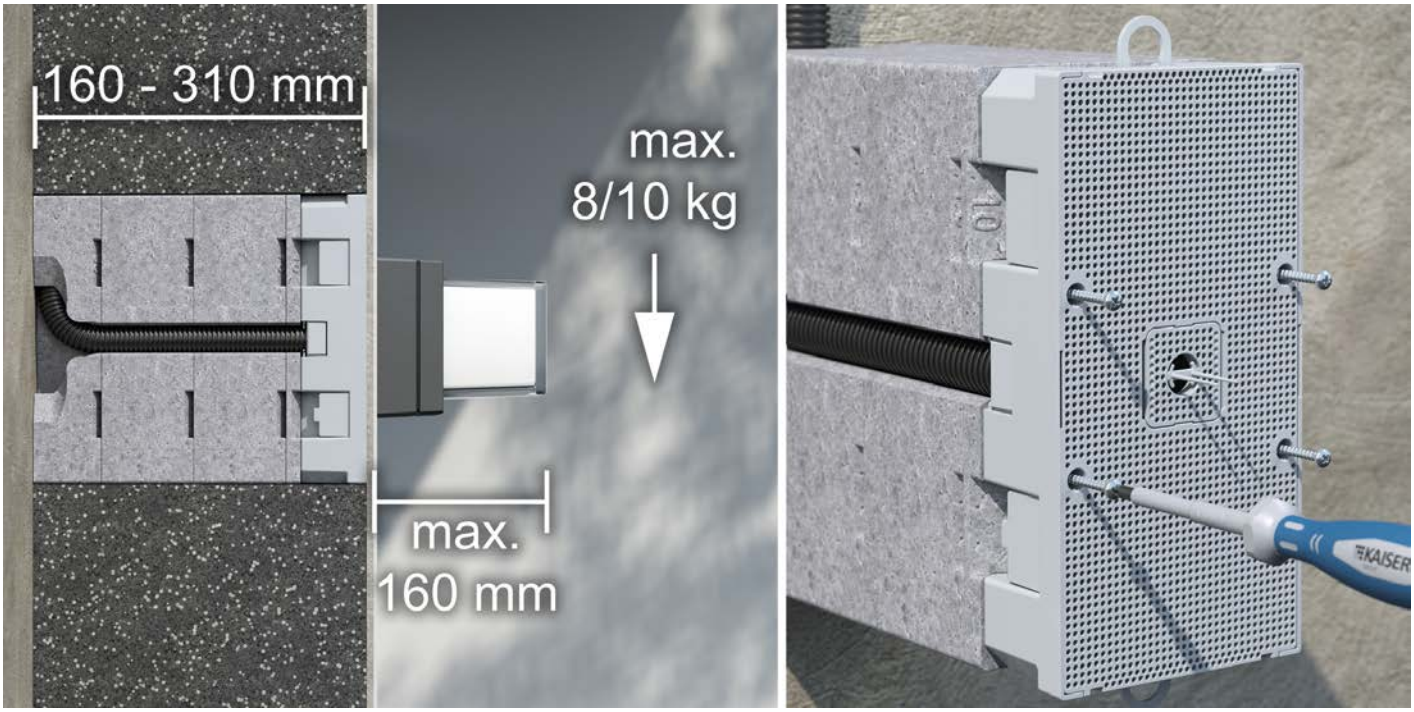
...for mounting luminaires and other accessories.

Heat bridge calculation



A heat bridge calculation carried out by the Passivhaus Institut in Darmstadt shows that the system equipment carrier has a point-specific heat bridge loss coefficient of xWB < 0,01 W/K and meets the requirements of a heat bridge-free facade.

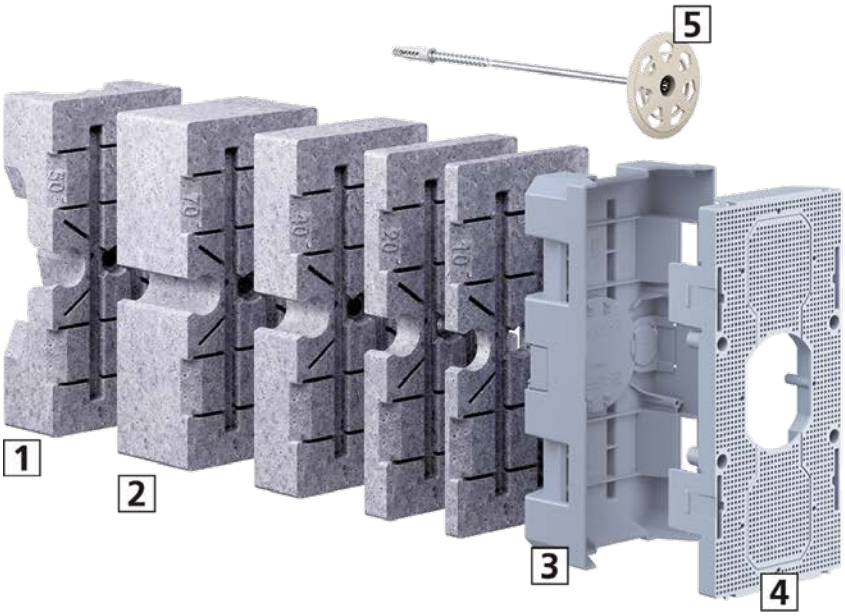
Weight-bearing loads



1 Weight-bearing loads – independently of the insulation thickness: For an overhang of 160 mm and insulation thicknesses of 160 - 310 mm; 8 kg without additional screwing of the front plate; 10 kg with additional screwing of the front plate. The system equipment carrier must be fitted vertically. The hole for the dowel must be drilled to make an exact fit. | **2** Increasing the weight-bearing loads: To fix heavier loads, we recommend additional securing of the mounting plate by means of four Ø 3.5 x 25 screws

Versatile in use

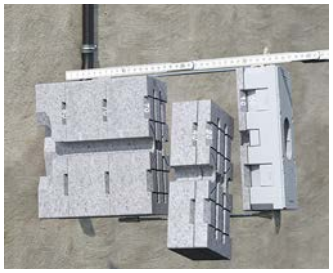
The choice of two front parts and the modular design make the system equipment carrier a product that is extremely versatile in use. Cutting to size is not necessary because of adaptation to the insulation in 10 mm steps. Fixing by means of a single screw dowel reduces fitting time to a minimum, and at the same time, it ensures secure anchoring to the base, e.g. masonry, concrete or wood materials.



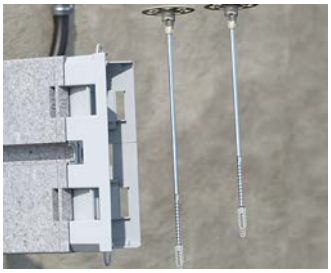
1 Basic element | **2** Intermediate elements | **3** Housing base | **4** Front plate | **5** Screw-in wall-plug

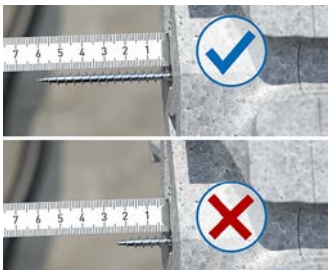
Installation


Masonry with conduit exit.


Adapt equipment carrier to insulation thickness by selecting suitable components.

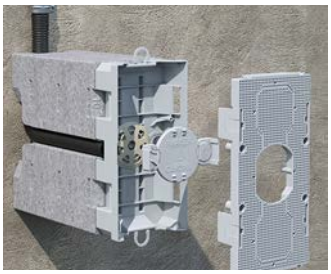

Cut Ø 8 mm drill hole at least 50 mm deep.


Remove the side lugs from the screw dowel. Note the different lengths!


The dowel screw must protrude from the basic element by at least 40 mm.


Hold the equipment carrier against the wall, align it, and fix it using the dowel.

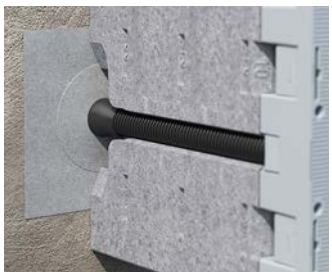

Press the conduit into the sideway guide and cut it to length.

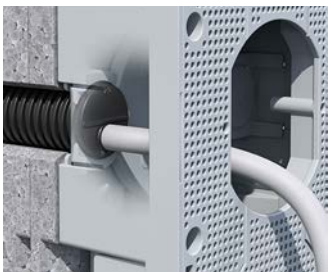

Latch on the required front part. Fit the Styrofoam cap and the dowel cover.

Tips and tricks

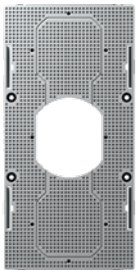

For an additional conduit, remove the bridges next to the Neopor® parts...

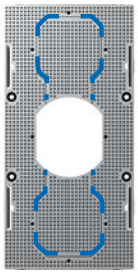
… and the perforated entry broken out in the case of the dowel cover

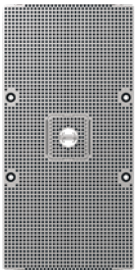

For air-tight installation, fit a suitable air-tight sleeve to the conduit exit side...

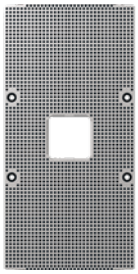

…and fit a sealing plug to the conduit.

Combinations with front panels


Multi-device front panel (Art. No. 9966.31 and 9966.32); opening Ø 1 x 68 mm.


2-way and 3-way combinations can be made by breaking out the covers.


Delivery status (Art. No. 9966.21 and 9966.22), universal mounting plate.


Universal mounting plate with broken-out exit for luminaires.

System equipment carrier 160 – 240 mm

- Adaptation to insulation thickness possible in 10 mm steps
- Including 2 screw dowels
- Material: Polyethylene
- Insulation material: Neopor
- Processing temperature: - 5 °C / + 60 °C

3D animation

Product-Data

Length x Width x Height	**220 x 110 x 160-240 mm**	**220 x 110 x 160-240 mm**
Combination conduit entries M20/25	2	2
Combination	1x1 / 2x1 / 3x1	Luminaire outlet / mounting plate
Screw-in wall-plug	1 x 200 mm, 1 x 240 mm	1 x 200 mm, 1 x 240 mm
Halogen-free	Yes	Yes
CE / 850 °C	Yes	Yes / Yes
	-	Yes
Art.-No.	**9966.31**	**9966.21**
Inner packaging/shipping	- / 5	- / 5

System equipment carrier 240 – 310 mm

- Adaptation to insulation thickness possible in 10 mm steps
- Including 2 screw dowels
- Material: Polyethylene
- Insulation material: Neopor
- Processing temperature: - 5 °C / + 60 °C

3D animation

Product-Data

Length x Width x Height	**220 x 110 x 240-310 mm**	**220 x 110 x 240-310 mm**
Combination conduit entries M20/25	2	2
Combination	1x1 / 2x1 / 3x1	Luminaire outlet / mounting plate
Screw-in wall-plug	1 x 280 mm, 1 x 320 mm	1 x 280 mm, 1 x 320 mm
Halogen-free	Yes	Yes
CE / 850 °C	Yes	Yes / Yes
	-	Yes
Art.-No.	**9966.32**	**9966.22**
Inner packaging/shipping	- / 5	- / 5

Installation housing ThermoX® Iso +

Installation housing for the secure and heat-bridge-free installation of rigid and swivelling built-in LED luminaires or other installation accessories in insulated ceilings. The housing protects the surrounding insulation material against the high operating temperatures of the LED luminaire and protects the LED luminaire itself against dirt. The integrated insulation element reliably prevents heat bridges.

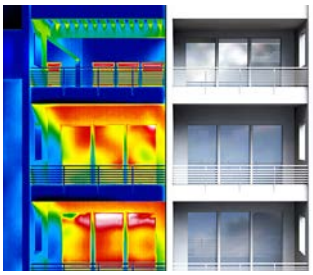
- For the installation of luminaires and installation accessories in insulated ceilings
- Suitable for all standard insulation materials
- Thermically-protected installation space
- The integrated insulation element prevents heat bridges
- For insulation thicknesses from 100 mm to 160 mm (170 mm to 350 mm with extension element)
- Adjustment to the insulation thickness in 10 mm steps.
- Installation diameter up to ø 86 mm

halogen-free LED

BAKA Award

Awarded with the BAKA-Award 2019

Examples of use



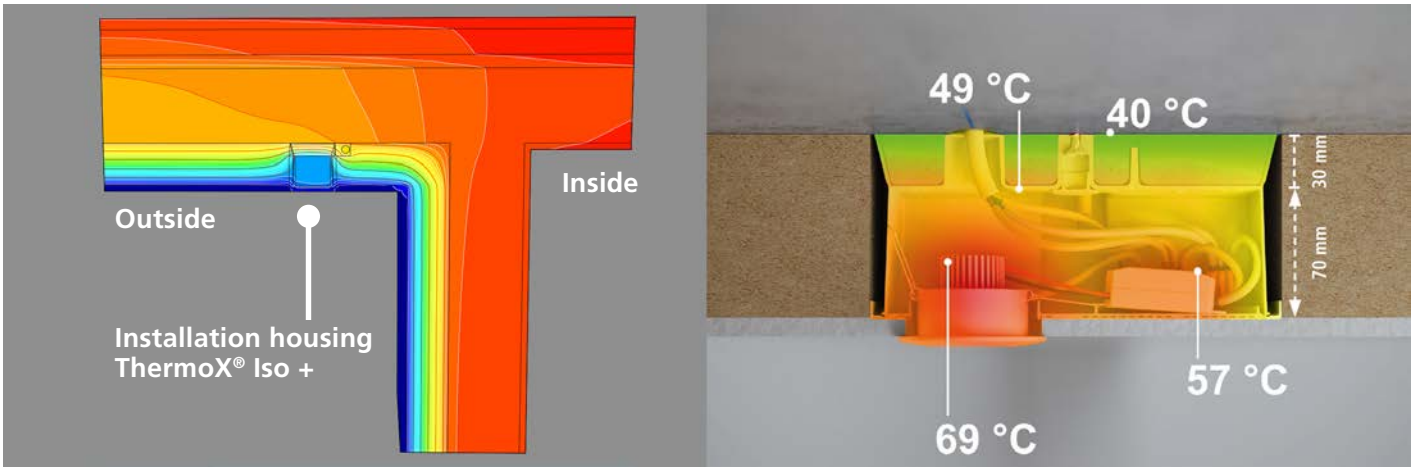
Buildings are constructed heat-bridge-free using the ETICS composite thermal insulation systems, e.g. …

…insulated external ceilings of built-over terraces with lighting.

…insulated, recessed entrance areas with lighting.

…insulated facades with outdoor lighting over the entrance and garage door.

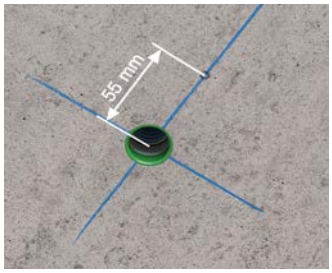
Heat-bridge calculation / temperature profile



A heat bridge calculation by the Passivhaus Institut, Darmstadt, shows that heat bridges can be reliably prevented by the installation housing for the external insulation. The installation housing is also suitable for use in passive houses.

Installation

Adapt installation housing to the measured insulation thickness.



Mark fixing point 55 mm from the luminaire centre point.

Alternative: Position the installation housing with the alignment markings for the luminaire and mark the drill hole.

Break out the conduit entry or cut an exact cable entry for air-tight installation, e.g. by using the KAISER universal opening cutter (Art. No. 1085-80).

Screw installation housing to the ceiling and fit the screw covering.

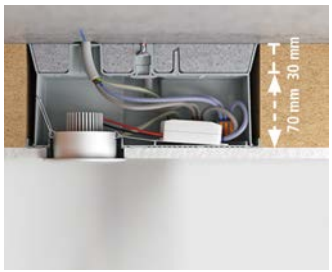
Insert the conduit or cable into the installation housing; fit sealing plug to the conduit.

Ceiling exit ø 68 mm for knocking in, ceiling outlet up to ø 86 mm for cutting out.

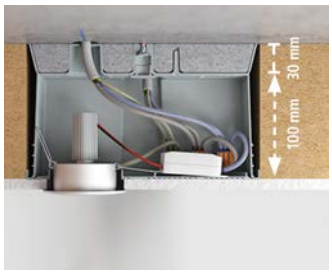
Applying insulation and plaster. Fitting the LED installation spotlight with plenty of space for the ballast device.

Processing instructions

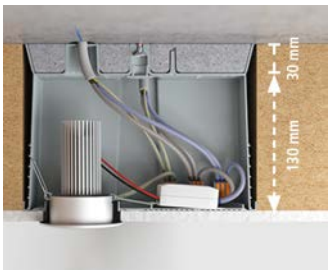
Universal front part for installation diameter of ø 68 mm for knocking in or universal up to ø 86 mm for cutting out (turn by 180°).



Installation depth 70 mm (insulation thickness 100 mm).



Installation depth 100 mm (insulation thickness 130 mm).



Installation depth 130 mm (insulation thickness 160 mm).

Installation housing ThermoX® Iso +

3D animation

Product-Data

- with external insulation of ceilings
- for insulation thicknesses of 100 mm and above
- Adjustment to the insulation thickness in 10 mm steps.
- for LED luminaires up to 8 Watt
- max. luminaire installation depth 70 mm to 130 mm (insulation thickness less 30 mm)
- Front panel with ceiling exit (CE) Ø 68 mm or universal up to Ø 86 mm
- Space for ballast devices 120 mm x 30 mm x 28 mm (installation diameter 68 mm, installation depth 70 mm)

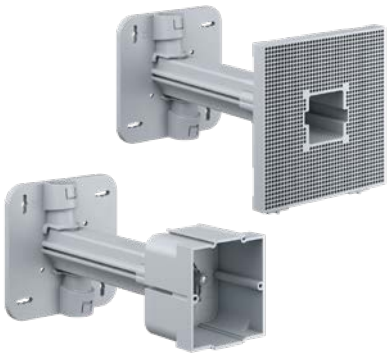
Length x Width x Height	**220 x 110 x 160 mm**
Insulation thickness	100 - 160 mm
Ceiling exit (CE) Ø	68 - 86 mm
max. lamp output	8 Watt
max. installation depth for the LED luminaires	70 - 130 mm
Cable or conduit entries up to max. ø 25 mm	5
Halogen-free	Yes
Art.-No.	**1159-70**
Inner packaging/shipping	- / 6

Extension element

- for installation housing for external insulation
- for insulation thicknesses 170 - 350 mm
- Adjustment to the insulation thickness in 10 mm steps.

Length x Width x Height	**220 x 110 x 190 mm**
Insulation thickness in combination with Art. No. 1159-70	170 - 350 mm
Halogen-free	Yes
Art.-No.	**1159-71**
Inner packaging/shipping	- / 6

Telescope equipment carrier and switch box

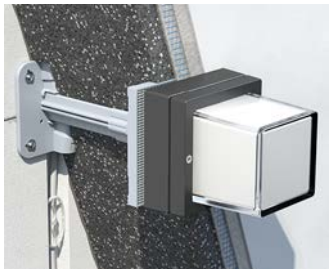


For the safe installation of luminaires, motion detectors and many other accessories in and on insulated facades. Optimised for the latest insulation thicknesses, the telescopic products permit a wide range of applications in external faces with insulation thicknesses from 80 to 200 mm. The two conduit entries on the basic carrier guarantee secure conduit connection. The cable routing which is integrated in the carrier arm ensures a fast, easy cable pull-in.

- Stable fit to walls and ceilings
- For insulation thicknesses from 80 to 200 mm
- Equipment carriers for accessories up to max. 5 kg
- One-gang boxes can be combined with a standardised 71 mm combination distance
- Conduit entries on the carrier with internal cable routing
- Integrated indicated dimension allows easy cutting off to insulation thickness
- Front fixing and depth stop prevent incorrect installation
- Front fixing of the mounting plate/one-gang box

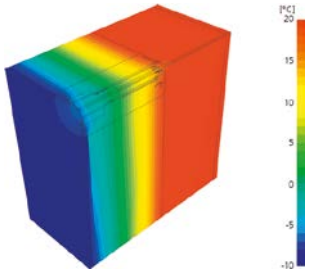
halogen-free | 650 °C

Examples of use

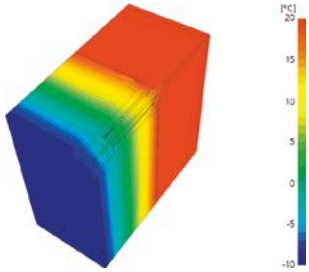


Heat bridge calculation / weight-bearing load

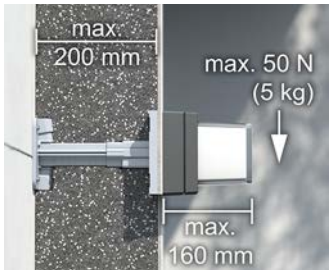
A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that no heat bridges result. When the space between the basic carrier and mounting plate / one-gang box is filled with insulating material, the loss coefficient „x WB" for the telescope equipment carrier is 0.0085 W/K, and 0.0077 W/K for the telescope switch box.



Telescope equipment carrier



Telescope switch box



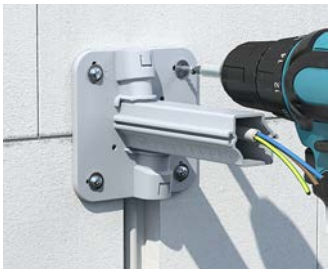
When fitting an equipment carrier to a wall, ensure that the cable entries are positioned vertically.

Installing the basic carrier

Prepare the cable routes. Try to avoid direct cable routing through masonry and insulation.

The internal cable routing can easily be broken off to permit cable routing from the rear.

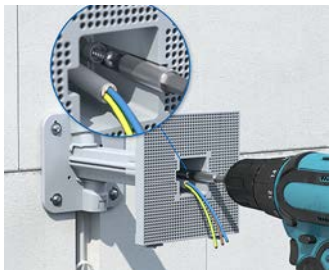
Saw the carrier to the required length. The integrated indicated dimension ensures exact reading of the dimension.



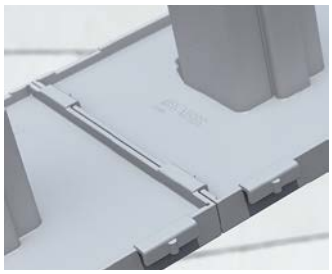
Slotted holes allow precise alignment even when the drill holes are not exact.

Installing the equipment carrier

Push the one-gang box onto the supporting arm as far as the stop.



The front fixing and the depth stop always ensure exact fitting and prevent incorrect installation.



Side fixings allow the secure positioning of several equipment carriers next to each other…

…and stable installation for accessories when the attachment points are far apart.

Installing the one-gang box

Push the one-gang box onto the supporting arm as far as the stop.

The front fixing and the depth stop always ensure exact fitting and prevent incorrect installation.

For multiple combinations, cut out the side separator walls and connect the one-gang boxes.

For multiple combinations, cut out the side separator walls and connect the one-gang boxes.

Product advantages

Dimensions shown on the carrier ensure that the carrier length can easily be sawn off to match the insulation thickness – no need for measuring!

Slotted holes allow precise alignment even when the drill holes are not exact.

The two conduit entries on the carrier guarantee secure conduit support. The integrated cable routing ensures fast, easy cable insertion.

Luminaires and many other accessories are easily fitted in the mounting plate through the plaster using screws up to 4 mm Ø.

Telescope equipment carrier

- for secure installation of luminaires and much more
- for use with external insulation of walls and ceilings
- installation area for dowel-free installation of accessories

3D animation

Product-Data

Length x Width	**120 x 120 mm**
Insulation thickness	80 - 200 mm
max. attachment surface for devices	120 x 120 mm
Conduit entry M20 on the carrier	2
Weight when attached to ceiling	5 kg
Weight when attached to wall	5 kg
Halogen-free	Yes
Art.-No.	**1159-60**
Inner packaging/shipping	- / 10

Telescope switch box

- for secure fixing of sockets and much more
- for use with external insulation of walls and ceilings
- with 2 screw domes
- Standardised combination distance 71 mm

Combination one-gang box

- for combinations with telescope switch box (Art. No. 1159-61)

Depth x Length x Width	**50 x 68 x 70 mm**	**50 x 68 x 70 mm**
Insulation thickness	80 - 200 mm	-
Screw spacing	60 mm	-
Conduit entry M20 on the carrier	2	-
Cable entries up to Ø 16 mm	2	2
Halogen-free	Yes	Yes
Art.-No.	**1159-61**	**1159-62**
Inner packaging/shipping	- / 10	- / 10

Mini equipment carrier

Mini equipment carrier for later attachment of a variety of accessories to insulated and already plastered composite thermal insulation systems (ETICS). Luminaires, motion detectors, external sensors etc. can be permanently attached easily, quickly, securely and without creating heat bridges.

- For retrofitting in insulated facades
- Exact flush aligning of attachment devices
- Guarantees installation without heat bridges
- 4 swivels for secure anchoring
- No moisture penetration

halogen-free

Examples of use

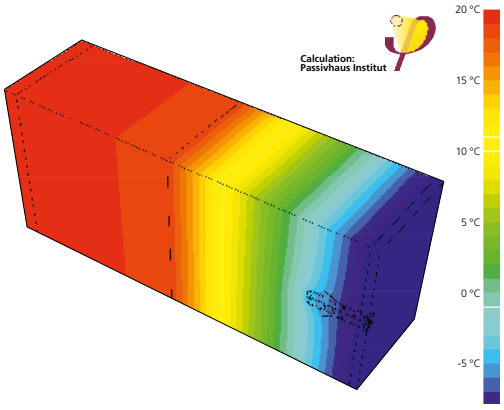
The small mini device carriers are concealed by luminaires and smaller accessories.

Secure attachment of motion detectors.

Invisible even when close to edges.

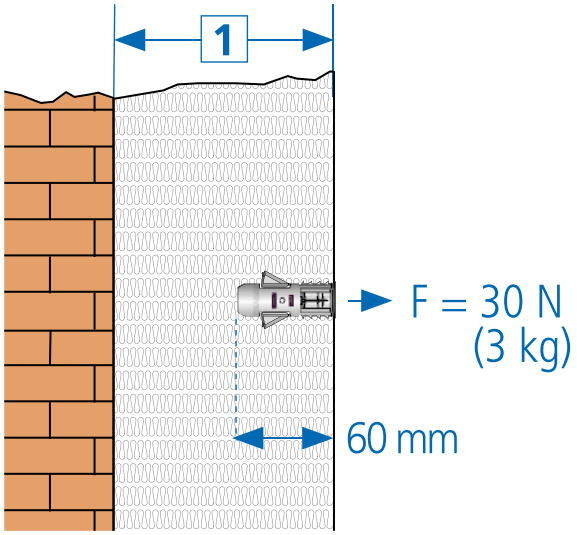
Secure, easy fitting of the corner mounting.

Heat bridge calculation



A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that there are no heat bridges in the electrical installation. The loss coefficient „× WB“ is 0.000054 W/K.

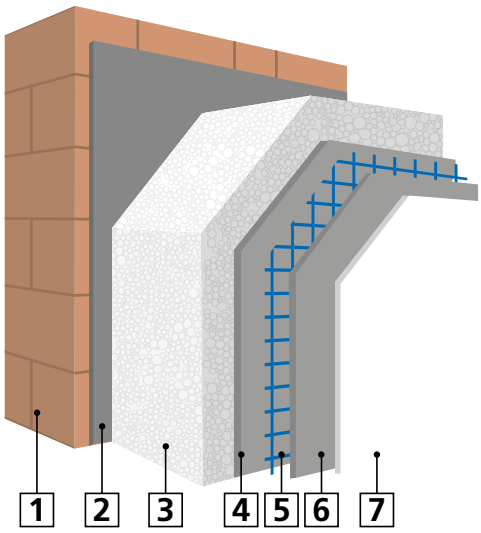
Maximum pull-out force for the mini equipment carrier.



1 External insulation - insulation thickness

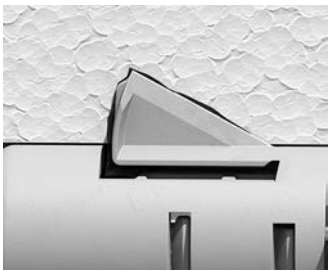
Structure of an organic ETICS

The mini equipment carrier was developed especially for later installation in organic composite thermal insulation systems (ETICS).

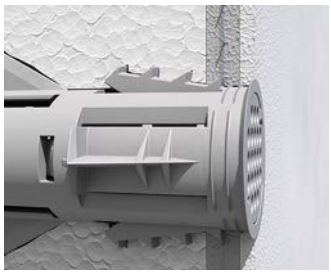


1 Masonry wall | **2** Adhesive | **3** Insulating board | **4** Reinforcement plaster | **5** Reinforcement fabric | **6** Reinforcement plaster | **7** Finish coat of plaster, decorative plaster

Technical information



The swivels anchor the KAISER mini equipment carrier in the insulation.



Clamping ribs, sealing lip and holding ring provide additional stability.

The adjustable screw-on surface accommodates a tolerance of up to 10 mm.

The screw-on surface is concealed even when the attachment points are close to the edge.

Installation

The two-piece mini equipment carrier can be anchored securely in the insulated external facade in a few simple steps.

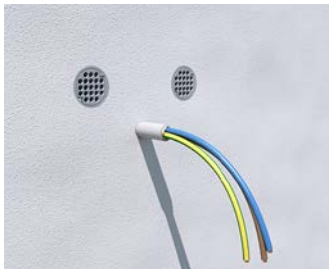
Create installation openings of Ø 20 mm with SPECIAL cutter with depth stop (Art. No. 1088-06).

Release the cutter head and remove the drilled core.

Press the anchor sleeve of the mini equipment carrier into the installation opening so that it is flush with the wall.

Press in the attachment core until it locks into the anchor sleeve.

Pressing in the attachment core anchors the swivels in the insulation material and provides a secure fit for the mini equipment carrier.



The mini equipment carriers now provide stable and wall-flush screw-on surfaces...

…and provide a tolerance compensation of up to 10 mm. This permits later exact alignment of all installation accessories.

The luminaire is securely and permanently flush-mounted to the wall.

Mini equipment carrier

- Retrofitting in existing composite thermal insulation systems (ETICS)
- consisting of anchor sleeve and attachment core
- for insulation thicknesses of 80 mm and upwards
- Screw-on surface with 10 mm tolerance compensation
- 4 swivel cutters
- 2 ribs
- Sealing lip on all sides
- Weight loading up to 30 N (3 kg)
- equipment attached with self-tapping screws with Ø of 3.2 - 4 mm

3D animation

Product-Data

Length	**60 mm**
Installation opening	Ø 20 mm
Halogen-free	Yes
Art.-No.	**1159-50**
Inner packaging/shipping	10 / 100

One-gang junction box ECON® Styro55

One-gang junction box ECON® Styro55 for later attachment of a wide range of installation accessories to insulated and pre-plastered composite thermal insulation systems (ETICS). Switches, sockets, intercoms etc. can be permanently attached easily, quickly, securely and without heat bridges.

- For retrofitting in insulated facades
- Cutter system prevents damage to cables
- Guarantees installation without heat bridges
- 4 swivels for secure anchoring
- No moisture penetration

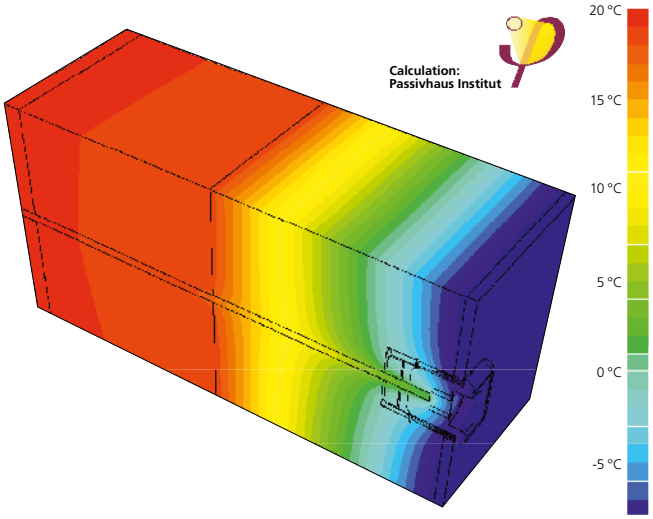
Examples of use

Secure attachment to a ETICS without adhesive.

Accessory installation without disrupting the insulation or creating heat bridges.

Secure and flush-mounting installation including multiple combinations.

Heat bridge calculation



A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that no heat bridges result. The loss coefficient „× WB“ is 0.005044 W/K.

Technical information

Tool-free and wind-tight cable entry prevents air draughts along the cable.

The swivels anchor the box securely in the insulation material. The ribs at the front also give the box additional support.

The lip at the back forms a sealing barrier to the insulation material and prevents air draughts along the box.

The all-round sealing lip seals the ETICS, so no moisture can penetrate.

Installation with an existing cable

Ensure that the cable was fed through the insulation material panel. Shorten the existing cable to approximately 10 cm.

Fasten the KAISER centering aid Ø 68 mm (Art. No. 1090-68) to the composite thermal insulation system using steel nails.

Using SPECIAL cutter (Art. No. 1088-07), cut the installation opening precisely as far as the depth stop.

Remove the drilled core from the opening.

The opening is now only as deep as necessary. The insulation remains intact and the cable is undamaged.

The ECON® technology elastic sealing membrane ensures a wind-tight seal around the cable as it is pushed through.

Simply insert the ECON® Styro55 one-gang junction box in the installation opening.

Press the box in the holding ring until the rim is flush with the wall.

Use KAISER tool (Art. No. 1090-22) to position the four swivels in the catch mechanism.

Flush-mounting and secure fit of the one-gang box.

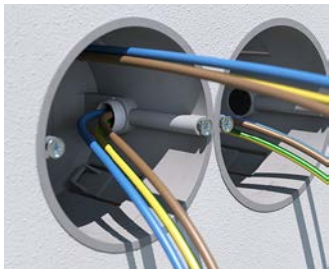
Using the KAISER stripping pliers, (Art. No. 1190-02), remove the insulation from the cable.

The swivel sheaths on the box seat themselves securely in the insulation material.

Installation of combinations

Using the combined cutting aids (Art. No. 1090-68), cut installation openings at the standard spacing of 71 mm.

Before inserting the support connector, remove the strap without using a tool.



Fully-insulated through-wiring is accomplished using the KAISER support connector (Art. No. 9060-88).

Secure and permanent attachment of multi-gang combinations, intercoms and much more.

One-gang junction box ECON® Styro 55

- Retrofitting in existing composite thermal insulation systems (ETICS)
- for insulation thicknesses of 80 mm and upwards
- 4 swivel cutters
- Clamping ribs
- Sealing lip on all sides
- including setting tool (Art. No.1090-22) per packaging unit

3D animation

Product-Data

Depth	**60 mm**
Cut hole Ø	68 mm
Cable entries up to Ø 15 mm	2
Device screws	2
Screw spacing	60 mm
Support connectors for each package	5
VDE	Yes
Art.-No.	**1555-51**
Inner packaging/shipping	10 / 100

One-gang junction box - ECON® Iso +

The ECON® Iso + one-gang junction box is the solution for electrical installation work in wood fibre insulation boards. Four swivels, specially designed for use in solid heat insulation and plaster base boards, ensure secure anchoring – also for retrofitting! The ECON® technology elastic sealing membrane guarantees air tightness and allows the toolless insertion of conduits or cables. This means that switches, sockets, intercoms and many more can be installed permanently and securely and heat bridge-free.

- Air-tight and heat bridge-free electrical installation in accordance with DIN 18015-5
- Suitable for pressure-resistant insulation panels of 60 mm thickness and greater
- 4 swivels for secure mechanical anchoring
- Making of combinations is possible

halogen-free

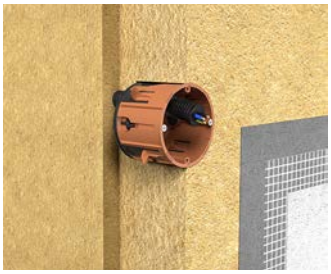
3 times awarded in 2019:

B+B Bauen im Bestand
Produkt des Jahres 2019
Sieger in der Kategorie Energetische Sanierung

PRODUKT DES JAHRES 2019 Smarthouse

BAKA Award

Examples of use



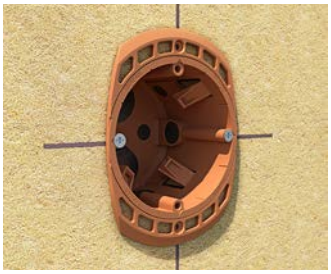
Ecological wall insulation in old and new buildings in both wood and solid constructions.

Suitable for mounting in pressure-resistant wood fibre insulation boards with a medium gross density of 110 - 180 kg/m³.

Retrofitting is possible. For retrofitting on the plastered wall, fit the box without a mounting frame.

User-friendly mounting of the installation of accessories - also in combination - possible.

Processing instructions



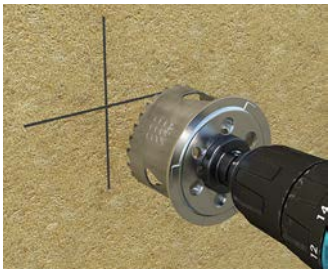
Mounting in an unplastered insulation panel – use a mounting frame.

Mounting in a plastered insulation panel is possible, even with an existing cable.

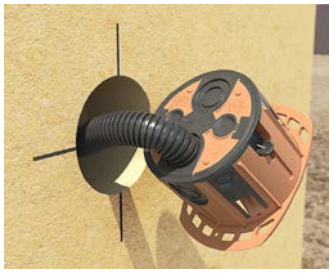
The membrane which seals the swivel guarantees air-tightness.

Plenty of entry options using ECON® technology for conduits and cables.

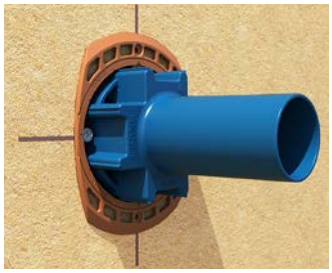
Mounting on unplastered insulation panel



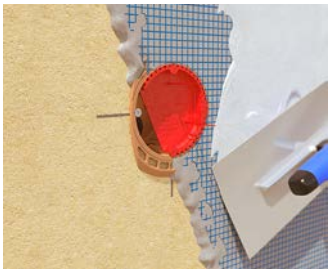
Cut the Ø 68 mm installation opening using a suitable cutter (e. g. Art. No. 1082-30; countersink hole cutter and ejector spring must beremoved).



Fit mounting frame, then feed the cable or conduit through the airtightmembrane and into the box.



Using gentle pressure, insert the setting tool (Art. No. 1090-22) into the box as far as the stop. The swivels much expand completely.

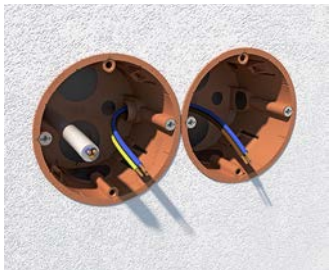


Before plastering, fit the signal cover (Art. No. 1181-60). Protects the interior of the box, the screw domes and the screw heads.

Mounting on plastered insulation panel in a combination

Using SPECIAL cutter (Art. No. 1088-07) and two centering aids (Art. No. 1090-68), cut two installation openings at least 55 mm deep and with a diameter of 68 mm.

The ECON® technology sealing membrane wraps itself air-tight round the cable during insertion.



Through-wiring takes place after removal of the opening tabs and fitting of the support connector.

Installation of various installation accessories is possible – includingin combinations.

One-gang junction box - ECON® Iso +

INNOVATION

- Sealing lip on all sides
- 4 swivel cutters
- 4 screw domes
- with 2 device screws +/-
- including centering aid
- including setting tool (Art. No.1090-22) per packaging unit

3D animation

Product-Data

Depth	**55 mm**
for insulation thicknesses	> 60 mm
Cut hole Ø	68 mm
Device screws	2
Screw spacing	60 mm
Cable entries of up to Ø 11.5 mm	4
Conduit entries M20	4
Support connectors for each package	5
Halogen-free	Yes
VDE	Yes
Art.-No.	**1159-55**
Inner packaging/shipping	10 / 100