BF rail (48 Vdc) with control gear box for mounting with rope suspension

BF rail (48 Vdc) / length 200 cm with control gear box Control gear box incl. control gear (100 W / 220-240 Vac / 48 Vdc) For mounting with BF rope suspension set (3-piece)

Installation instructions







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(Canopy can be ordered optionally / not included in the scope of delivery)	



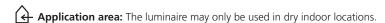


!\ Electrical connection and legal information:

- The luminaire may only be operated with a mains voltage of 220–240 V / 50–60 Hz.
- The electrical connection of fixed luminaires may only be carried out by a qualified electrician. The statutory installation and accident prevention regulations must be observed.
- Repairs may only be carried out by Baltensweiler AG or by qualified specialists in accordance with applicable standards.
- In the event of improper installation or manipulation, all warranty claims and the manufacturer's product liability in accordance with EU Directive 85/374/EEC and the Swiss Product Liability Act (PrHG) shall be void.
- · Baltensweiler AG accepts no liability for personal injury or property damage resulting from improper handling or failure to observe the safety instructions.

Operation and safety:

- The luminaire heats up during operation.
- Do not place or hang objects on the luminaire or cover it during operation (risk of breakage, falling or fire).
- Keep LEDs, optics and protective glasses clean at all times dust, dirt or foreign particles may lead to overheating or cause damage to the luminaire (refer to the care instructions).
- The LEDs are permanently installed and may only be replaced by the manufacturer.
- Before installation, cleaning or maintenance, always disconnect the power supply (unplug or switch off the circuit breaker).
- · For portable luminaires, regularly check the power cable for damage to the insulation and the secure fit of the strain relief. If damage is detected, the luminaire must be disconnected from the mains immediately and taken out of service. Operation may only be resumed after proper repair and inspection by the manufacturer.



IP20 The luminaire has protection rating IP20: Protection against contact and against solid foreign objects with a diameter ≥ 12.5 mm.

- Installation note: Neither the luminaire nor external control gear may be covered or enclosed with thermal insulation.
- The luminaire is classified as protection class II: Luminaires with reinforced or double insulation; no protective earth connection required.
- (III) Certain individual detachable parts of the luminaire are classified as protection class III: These parts are operated with safety extra-low voltage (SELV/PELV, e.g. 12, 24 or 48 V DC) and may only be used with the control gear integrated in the luminaire. Separate operation is not permitted. (The complete luminaire, including the control gear, is classified as protection class II.)
- External dimmers: External dimmers (including wall dimmers) are not permitted and may damage the electronics of the luminaire.
- ESD: Electronic components are sensitive to electrostatic discharge (ESD) and can be damaged even by touch. Appropriate ESD protection measures must be taken during installation.
- Magnetic notice: The luminaire contains small magnetic components. Magnets may interfere with the function of pacemakers or implanted defibrillators. The recommended minimum distance from the magnet is 85 mm for newer versions (max. magnetic field 1 mT = 10 G) and 105 mm for older versions (max. magnetic field 0.5 mT = 5 G).
- Warning intense light emission: Do not look directly into the LEDs!
- Care instructions: Disconnect the luminaire from the power supply before cleaning. Wipe the luminaire with a soft, damp cloth. Do not use abrasive, alcohol-based or electrostatically charged cleaning agents. The LEDs must not be touched or cleaned to avoid mechanical, chemical or electrostatic damage.
- Repairs / Returns: Repairs may only be carried out by Baltensweiler AG or by qualified specialists in accordance with applicable standards. This ensures that the quality and safety of the luminaire are maintained.

Returns are only possible with prior written approval from Baltensweiler AG and must be complete and in their original packaging. Damage resulting from improper packaging may be charged.

Further information on repairs and returns is available from Baltensweiler AG at info@baltensweiler.ch

- Proper disposal: The luminaire must not be disposed of with household waste.
- **Conformity:** according to EN standards and EU directives.



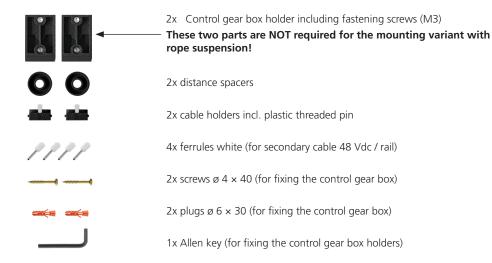
Scope of delivery in the packaging:

- (A) BF rail (48 Vdc) incl. secondary cable
- (B) Control gear box with cover (incl. control gear max. 100 W / 220–240 Vac / 48 Vdc)
- (c) Art.No. 7300-81 BF mounting accessories for control gear box
- (D) Art.No. 7200-65 BF Rope spension set (3-piece, for rail length 200 cm)
- (E) Installation instructions for rail and control gear box (incl. control gear)

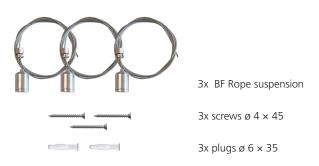
 (The installation and operating instructions for the corresponding lighting elements are included in the package of the lighting elements.)



C Contents of Art.No. 7300-81: BF mounting accessories for control gear box



(D) Contents of Art.No. 7200-65: BF Rope suspension set (3-piece, for rail length 200 cm)





Notwendiges Werkzeug:

- Cross-head screwdriver
- Slotted screwdriver
- Drill with ø 6 mm drill bit
- Crimping tool
- Wire stripper
- Side cutter
- Marking tool (e.g. line laser)
- Spirit level

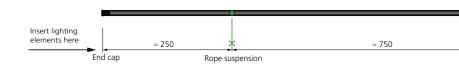
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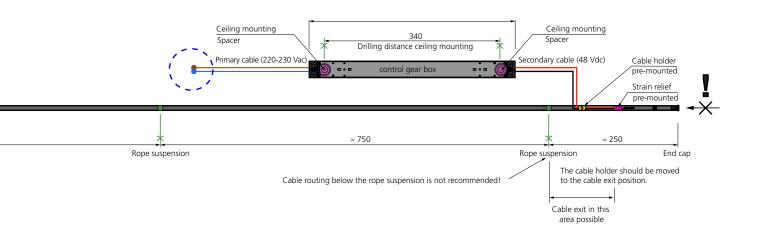
- Two persons are required for installation.
- The installation and operating instructions for the lighting elements are included with the respective lighting elements.





Rail with rope suspension / control gear box positioned externally





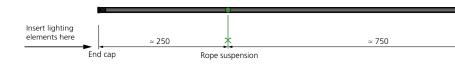
Important: The electrical connection must be carried out only by a qualified electrician. Before any installation work, disconnect power (remove fuse).

The rail system consists of:

- one rail with pre-installed secondary cable (48 Vdc output from the control gear to the rail, length 3.5 m),
- one control gear box with pre-installed primary cable (mains connection 220-240 Vac, length 3.5 m),
- and the required mounting accessories.

Placement of the control gear box on the secondary side directly in front of the rail is possible. The secondary cable must be routed above the rail.

The rope suspension may only be installed on horizontally aligned surfaces.



Vorbereitung

1) Disconnect power:

Switch off circuit breaker to ensure that the system is voltage-free.

The electrical connection must be carried out only by a qualified electrician.

Place the rail, control gear box and all mounting accessories on a clean, scratch-free working surface. Check scope of delivery according to the list on page 3.

(3) Prepare secondary cable (48 Vdc):

Release the Velcro strap on the rail and lay out the pre-installed secondary cable (do not remove!) next to the rail.

Remove covers:

- Remove the end cap on the opposite side of the rail feed-in.
- Remove the cover of the control gear box (held magnetically).

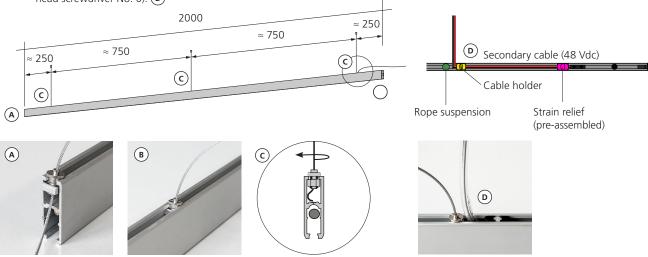
Prepare the rail - secondary cable and rope suspension

(5) Mounting the rope suspension to the rail

- Insert the rope suspension units (3 pieces) into the rail on the opposite side of the rail feed (A) and position (B) and fix them according to the drawing (C)
- For special rail lengths (100–199 cm), adjust the distances accordingly.

6 Preparing the cable exit of the secondary cable (48 Vdc)

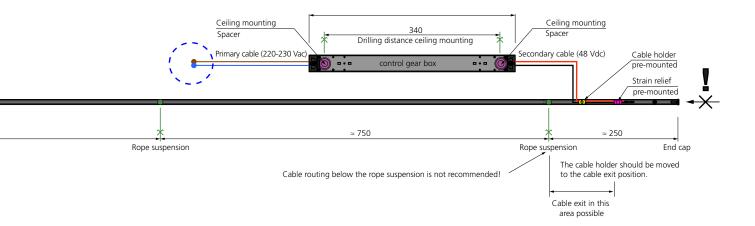
- The secondary cable may be routed inside the rail up to the first rope suspension.
- Cable routing below the rope suspension is not recommended.
- No cable may be routed within the area of the rail feed.
- The cable exit must be secured using the cable holder. (D)
- Loosen the pre-assembled cable holder sufficiently so that it can be moved (flat-head screwdriver No. 0).
- The strain relief (marked in black) at the secondary connection to the rail must NOT be loosened or
- Guide the secondary cable from the rail to the rope suspension and secure it using the cable holder (flathead screwdriver No. 0). (D)





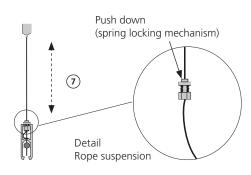






Adjust the rope suspension lengths

7) Adjust the rope length (the ropes can be readjusted after installation).



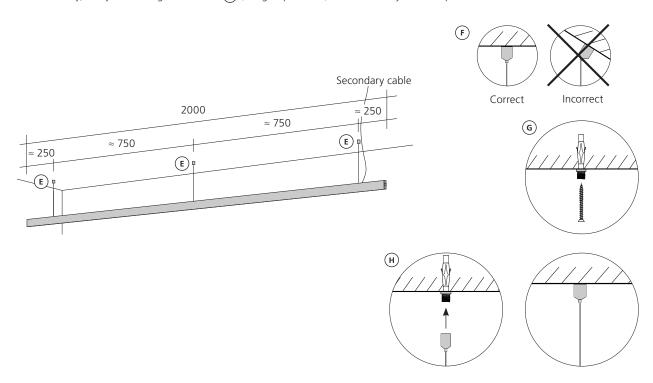
Mounting the rail to the ceiling with rope suspension

(8) Mounting the rope suspension ceiling holders

- Mark the mounting points (3 pieces) for the rope suspension according to the recommended dimensions (see dimensions). (E)
- For special rail lengths (100–199 cm), adjust the spacing accordingly.
- The rope suspension may only be installed on horizontally aligned surfaces. F
- Important: The secondary cable has a length of 3.5 m.
- Drill the holes (ø 6 mm × 45 mm) and insert the anchors. ©
- Mount the rope suspension ceiling holders in alignment. (G)
- Check the load-bearing capacity of the ceiling fixing and, if necessary, adjust or replace it according to the ceiling structure.

(9) Mounting the rail to the rope suspension ceiling sleeve

- Attach the rail to the rope suspension ceiling sleeve by tightening the screw cover counterclockwise onto the ceiling sleeve.
- If necessary, readjust the height of the rail (7) (using a spirit level) and cut off any excess rope.





Installation instructions – Rail with rope suspension / control gear box positioned externally

Important: The electrical connection must be carried out only by a qualified electrician.

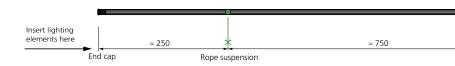
Before any installation work, disconnect power (remove fuse).

The rail system consists of:

- one rail with pre-installed secondary cable (48 Vdc output from the control gear to the rail, length 3.5 m),
- one control gear box with pre-installed primary cable (mains connection 220–240 Vac, length 3.5 m),
- · and the required mounting accessories.

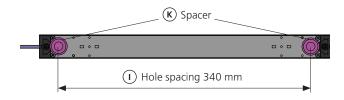
Placement of the control gear box on the secondary side directly in front of the rail is possible. The secondary cable must be routed above the rail.

The rope suspension may only be installed on horizontally aligned surfaces.



Mount the control gear box to the ceiling

- (10) Check the primary and secondary connection positions and determine the mounting location of the control gear box (400 mm).
 - Mark the mounting holes of the box (hole spacing 340 mm). (1)
 - Drill the holes and insert the anchors (\emptyset 6 × 45 mm).
 - Carefully remove the cover (magnetic).
 - Fix the control gear box using the screws and one spacer on each side. (κ)





Connecting the secondary cable (48 Vdc)

(11) Cut and prepare the secondary cable

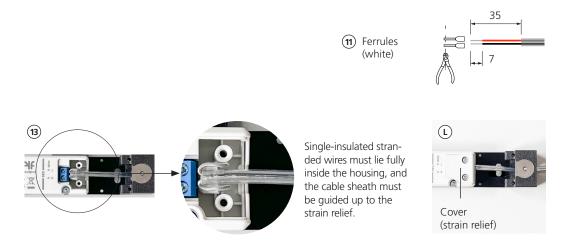
- Cut the secondary cable according to the mounting position of the control gear box (allow for approx. 80 mm of cable loss inside the box).
- Strip the cable insulation only as much as necessary to maintain double insulation.
- Crimp the ferrules (white) using a crimping tool and shorten them if required.
- For screw terminals, ferrules are mandatory and must be used for stranded wires.

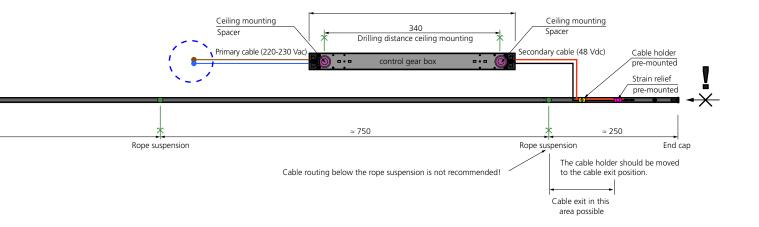
(12) Cable insertion:

- Depending on the installation, fix the cable beforehand in the on-site cable duct or with suitable holders.
- Insert the prepared secondary cable into the end cap of the control gear box.

Connection to the control gear

- Remove the secondary-side cover from the control gear unit and connect the cable to the 48 Vdc terminal (negative conductor identified by a black thread).
- · Ensure the conductor ends are placed fully inside the housing and guide the cable sheath into the strain relief.
- Close the strain relief and check it by gently pulling the cable.





Final installation / primary connection (220-240 Vac)

(14) Primary connection (220–240 Vac):

- Carry out the primary connection in accordance with applicable installation regulations. Connection must be made exclusively inside the on-site ceiling outlet box.
- No additional terminals, strain reliefs or similar components may be installed inside the rail or the control gear box.
- Shorten and strip the primary cable if required.
- Connect the luminaire's primary cable (220–240 Vac) to the on-site supply cable in the ceiling outlet box (neutral conductor marked with blue thread).
- Use of the supplied terminals is recommended.

(15) Important:

- For screw terminals (e.g. connector blocks), ferrules are mandatory and must be used for stranded wires.
- Ferrules must **not** be used on **solid conductors**.
- Depending on the ceiling canopy, the primary cable must be fed through the canopy before installation.

 See the overview of ceiling canopies on page 12 (optional, not included). Install according to the separate instructions.
- If the cable is not routed through a cable duct to the ceiling outlet box, an on-site strain relief must be provided.

(16) Install lighting elements

• Once the rail and control gear box are installed and the primary connection has been properly made at the ceiling outlet box, the lighting elements can be installed **according to their separate instructions**.



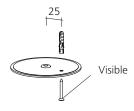
Select the ceiling canopy according to the rail installation and the existing electrical connection:

Flush-mounted ceiling canopy / Art.No. 7200-66

- Vertical cable entry.
- Not suitable in the area of the rail or the control gear box.
- Mount on the primary cable before making the electrical connection.
- Installation according to separate instructions (included with the ceiling canopy).







Surface-mounted ceiling canopy / Art.No. 5050-60

- Side cable entry.
- Installation below the rail or below the control gear box is not possible.
- Installation according to separate instructions (included with the ceiling canopy).



