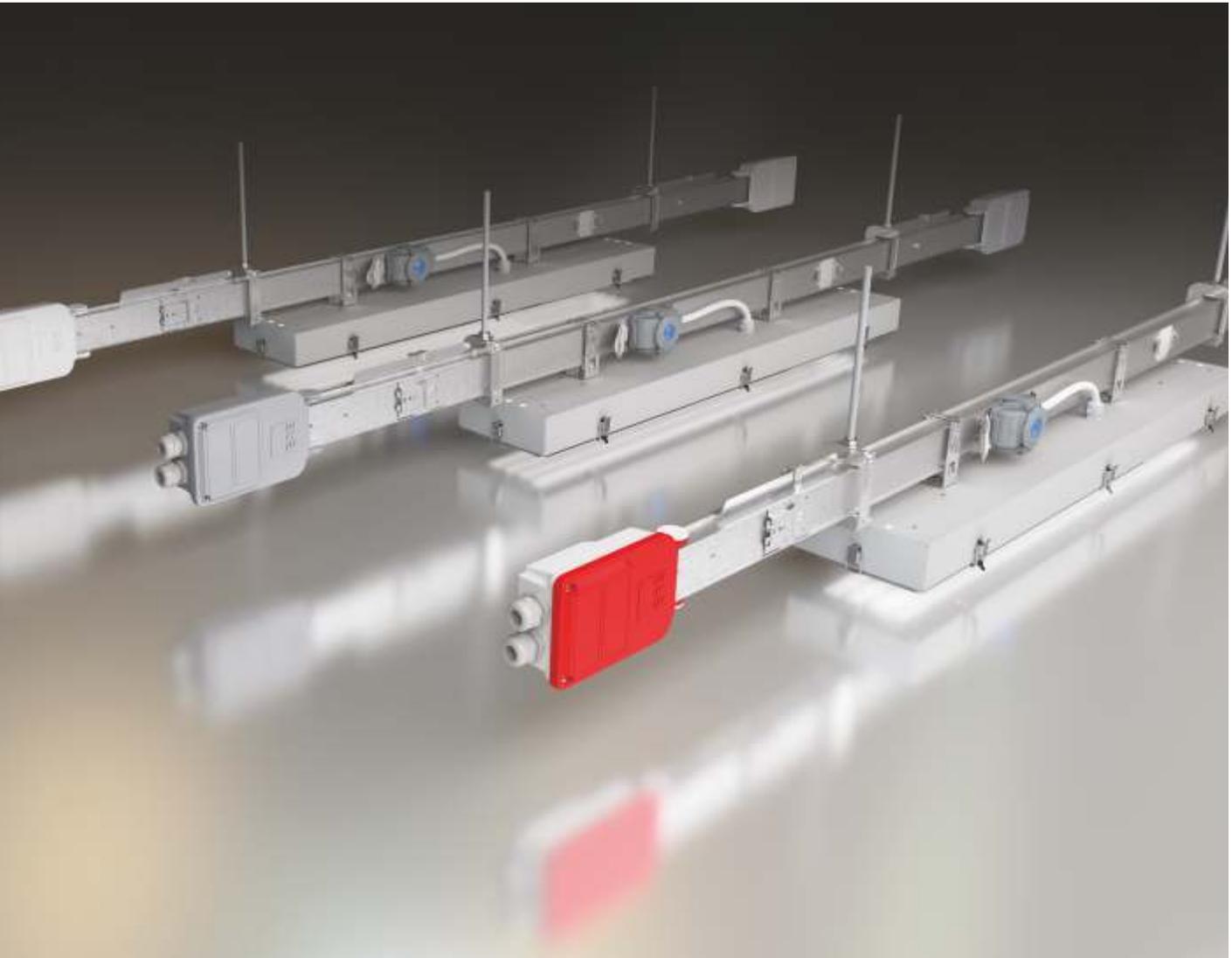




E-LINEDL

Low Power & Lighting Busbar System 25-32-40 A



DL / DL-DALI / DL-DIM

LIGHTING BUSBAR SYSTEM TECHNICAL SUMMARY TABLE (IEC 61439-6)

| GROUP LINE | BUSBAR | | | | | OUTLET PLUG-IN | | | | BODY | CONDUCTOR ^(*) | |
|------------|-----------------------|------------------------|--------------|----|-----------------|----------------|----------|------------------|----------------|------|--|---------------------------------------|
| | DESCRIPTION | DISTRIBUTION STRUCTURE | CAPACITY (A) | | STD.LENGTH (mm) | LOCATION | FUNCTION | DISTANCE (mm) | QUANTITY (pc.) | | | |
| 1 | DL | 3P+N+PE | 25 | 32 | 40 | 3000 | FRONT | Power | 750 | 4 | 0.5 mm Galvanized sheet metal - Elektrostatic Paint (RAL 7038) is optional | Tin plated and full length insulation |
| | | 3P+N+PE+CE | | | | | BACK | | | 4 | | |
| 2 | DL-DALI | 3P+N+PE | 25 | 32 | 40 | 3000 | FRONT | Power | 750 | 4 | | |
| | | | | | | | BACK | Dali + Kit | | 4 | | |
| 3 | DL-DIM ^(*) | 3P+N+PE | 25 | 32 | 40 | 3000 | FRONT | Power | 750 | 4 | | |
| | | | | | | | BACK | Sensor + Control | | 4 | | |

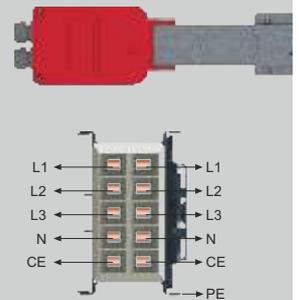
| TAP-OFF (Plug-Box) | RATED CURRENT ^(*) | | | | | | CABLE | | | | | |
|---|-------------------------------------|--------------------|-------------------|---|-------------|------|----------------------------|----------------------|----------------|---------------------------|-------|------|
| | UNFUSED | | | FUSED | | | SECTION (mm ²) | TYPE | | LENGTH ^(*) (m) | | |
| | (A) | SYMBOL | TYPE | (A) | SYMBOL | TYPE | | Halogen Free | Standard (PVC) | | | |
| Colour Coded Covers indicate the phases, Special Lock Mechanism and Earthing Safety | DL | PLUG | 10 | BL | L/N/PE | - | - | - | 3x0,75 | 052XZ1-F | - | 0,75 |
| | | | 16 | B | L/N/PE(CE) | - | - | - | 3x1,5 | 052XZ1-F | NYMHY | 0,75 |
| | | | | K | 3P/N/PE(CE) | - | - | - | 5x1,5 | 052XZ1-F | NYMHY | 0,75 |
| | | BOX | - | - | - | 16 | FS | L/N/PE(CE) | - | - | - | - |
| | | | - | - | - | 25 | S | Empty ^(*) | - | - | - | - |
| | | | - | - | - | 16 | FS | 10x38mm | - | - | - | - |
| | DL-DALI | PLUG (Feeder) | 16 | B | L/N/PE | - | - | - | 3x1,5 | 052XZ1-F | NYMHY | 0,75 |
| | | | K | L/N/PE | 16 | FS | L/N/PE | - | - | - | - | |
| | | PLUG (Control) | 16 | B | D1/D2 | - | - | - | 2x1,5 | 052XZ1-F | NYMHY | 0,75 |
| | | | K | D1/D2 | - | - | - | - | - | - | - | |
| | | DALI Emergency Kit | B _{Emg.} | D1/L _{Emg.} /N _{Emg.} /D2 | - | - | - | - | 4x1,5 | 052XZ1-F | NYMHY | 0,75 |
| | | | K _{Emg.} | D1/L _{Emg.} /N _{Emg.} /D2 | - | - | - | - | - | - | - | |
| DL-DIM ^(*) | PLUG (Feed) | 16 | B | L/N/PE | - | - | - | 3x1,5 | 052XZ1-F | NYMHY | 0,75 | |
| | PLUG (Control) SENSOR Emergency Kit | K (1,2,3) | K(1,2,3)/N | - | - | - | 2x1,5 | 052XZ1-F | NYMHY | 0,75 | | |
| | | S (1,2,3) | K(1,2,3)/P/N | - | - | - | 3x1,5 | 052XZ1-F | NYMHY | 0,75 | | |
| | | K (1,2,3)-ACK | K(1,2,3)/P/N | - | - | - | 3x1,5 | 052XZ1-F | NYMHY | 0,75 | | |

| DESCRIPTIONS: | SYMBOLS : |
|--|--|
| (*) Housing is the PE conductor. Equivalent cross-section area is 5,8 mm ² . For clean earth (CE), conductor cross-section area is 2,54 mm ² for 25A; 3,98 mm ² for 32A and 6,16 mm ² for 40A. | BL / B Tap-off Plug (Unfused with cable) |
| (*) DL-DIM busbar is used to DIM the lighting fittings locally which has corridor function ballast. | K Tap-off Plug with Clips (Unfused) |
| (*) 10A. (BL) Tap-off Plug / 16A. (B) Tap-off Plug / 16A. (FS) Fused Holder Tap-off Plug / 16A. (K) Tap-off Plug with clips / 25A-S, 16A-FS. Empty Tap-off Box;It can be manufactured with clean earth (CE). | FS With cylindrical fuse (The cylindrical fuse holder is 5x20 mm. or 10x38 mm. and fuse is not included.) |
| (*) Included DIN rail. Optionally, can be manufactured with mounted MCB. | S Empty, Suitable for MCB usage. (MCB is not included.) |
| (*) Cables may be manufactured with the desired length. (Standard length is 0,75m.) | Emg. Emergency kit reference voltage / feed. |
| | K (1,2,3) For control side (1 st control remote, 2 nd control remote, 3 rd control remote) |
| | S (1,2,3) For Sensor control side (1 st sensor remote, 2 nd sensor remote, 3 rd sensor remote) |
| | ACK Emergency kit unit. |

E-LINED/DALI/DIM

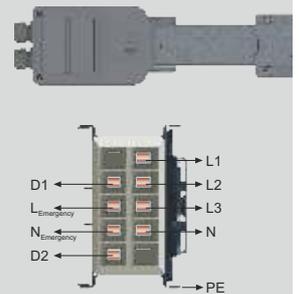
▶▶ E-LINE DL

| | |
|---|-------|
| General Characteristics | 2-3 |
| Order Code System | 4 |
| General Product Structure | 5 |
| Product Selection Tables / Standard Busbars | 6 |
| Product Selection Tables / Special Length Busbars | 7 |
| Product Selection Tables / Feeder Units | 8-9 |
| Product Selection Tables / Raised Underfloor Feeder Units | 10 |
| Product Selection Tables / Tap-off Plugs | 11-15 |
| Product Selection Tables / Tap-off Boxes | 16 |
| Application Areas | 17-18 |
| Project Design Form | 19 |



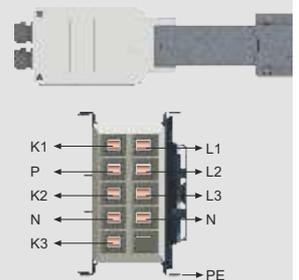
▶▶ E-LINE DL - DALI

| | |
|---|-------|
| General Characteristics | 20-21 |
| Product Selection Tables / Three Phase Busbars | 22 |
| Product Selection Tables / Tap-off Plugs | 23 |
| Product Selection Tables / Single Phase Busbars | 24 |
| Product Selection Tables / Tap-off Plugs | 25 |
| Product Selection Tables / Feeder Units | 26-27 |
| Application Areas | 28 |
| DL-DALI Busbar Principle Connection Chart | 29 |



▶▶ E-LINE DL - DIM

| | |
|--|-------|
| Product Selection Tables / Busbars | 30 |
| Product Selection Tables / Feeder Units | 31-32 |
| Product Selection Tables / Tap-off Plugs | 33 |
| DL-DIM Busbar Principle Connection Chart | 34 |
| Project Design Form | 35 |



▶▶ E-LINE DL / DL - DALI / DL - DIM

| | |
|------------------------------------|-------|
| Brackets and Joints | 36 |
| Busbar and Fitting Brackets | 37-39 |
| Joint Installation | 40 |
| Tap-off Plugs Installation | 41-42 |
| Tap-off Box Installation | 43-45 |
| Technical Specifications | 46 |
| Product Overview (DL) | 47 |
| Product Overview (DL-DALI) | 48 |
| Product Overview (DL-DIM) | 49 |
| CE Declaration of Conformity | 50 |
| Certificates | 51-53 |

►► General Characteristics

E-Line DL Busbar Distribution Systems are used in building electrical installations with a power requirement of 25 to 40A. 16A output sockets and 25A output boxes are designed to supply lighting and wall socket circuit as per their specifications.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.



Tap-off Plugs

Tap-off plugs for DL Busbar systems are designed with different contact arrangements.

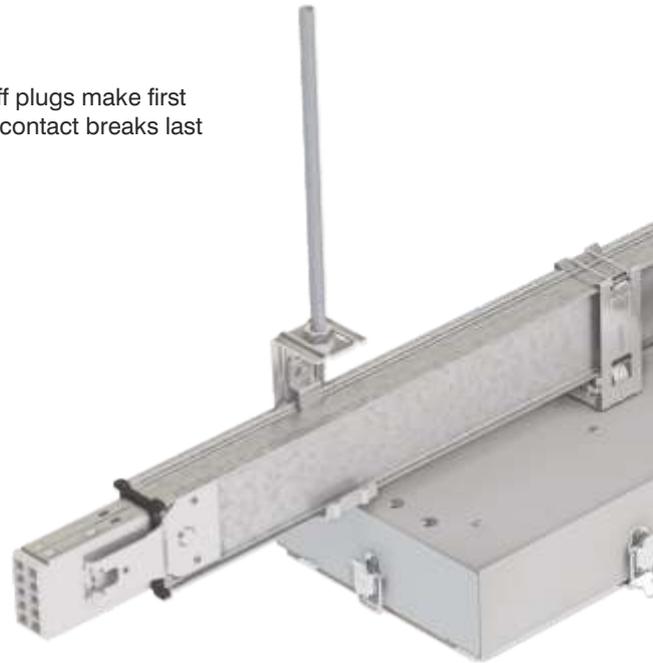
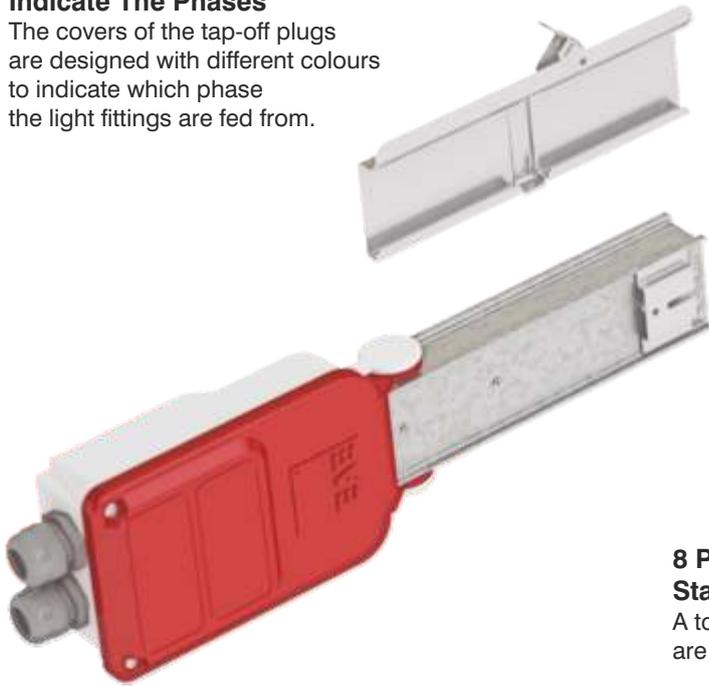
All the plugs are produced in order to be connected to the busbar in one direction to prevent the use of a wrong phase.

Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.

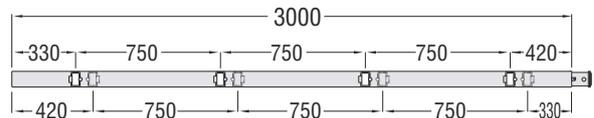
Colour Coded Covers Indicate The Phases

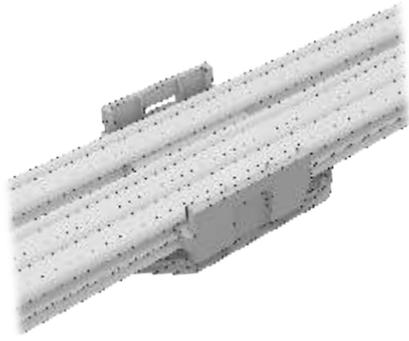
The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.



8 Plug-in Points are provided on a Standard 3m Length

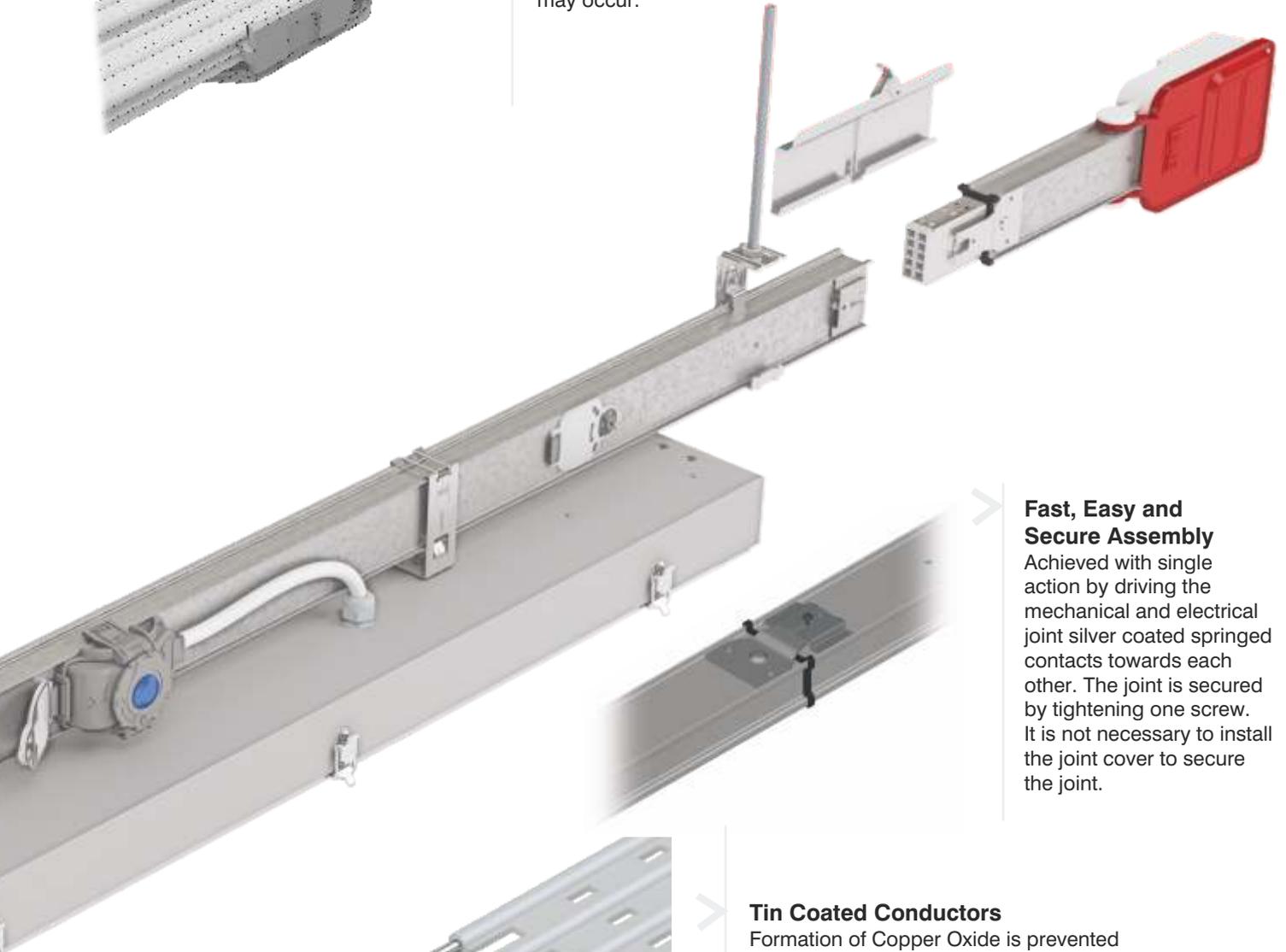
A total of 8 plug-in points (4 on each side) are provided as standard.





Full Isolation

The busbar conductors are coated in flame-proof insulation material. Total security regarding human safety is provided even when the body is severely damaged due to external heavy impacts that may occur.



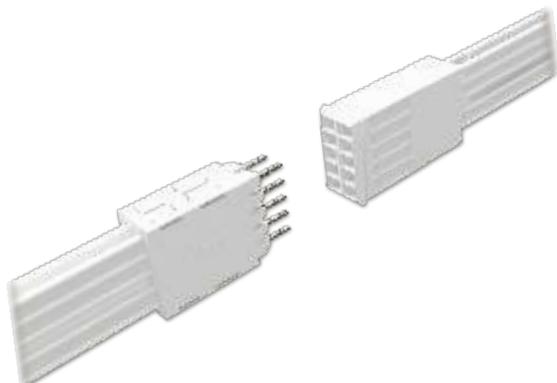
Fast, Easy and Secure Assembly

Achieved with single action by driving the mechanical and electrical joint silver coated spring contacts towards each other. The joint is secured by tightening one screw. It is not necessary to install the joint cover to secure the joint.



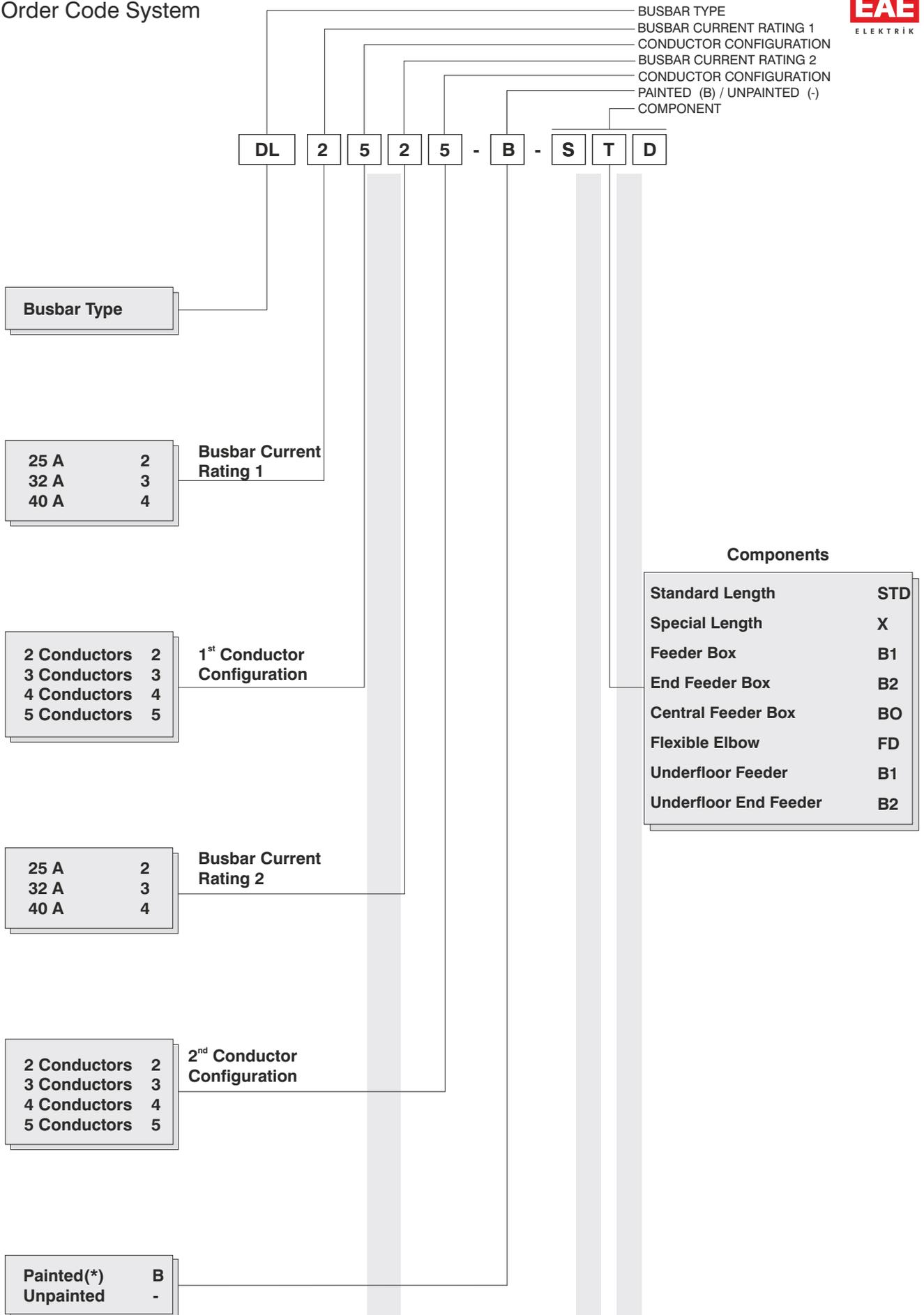
Tin Coated Conductors

Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.



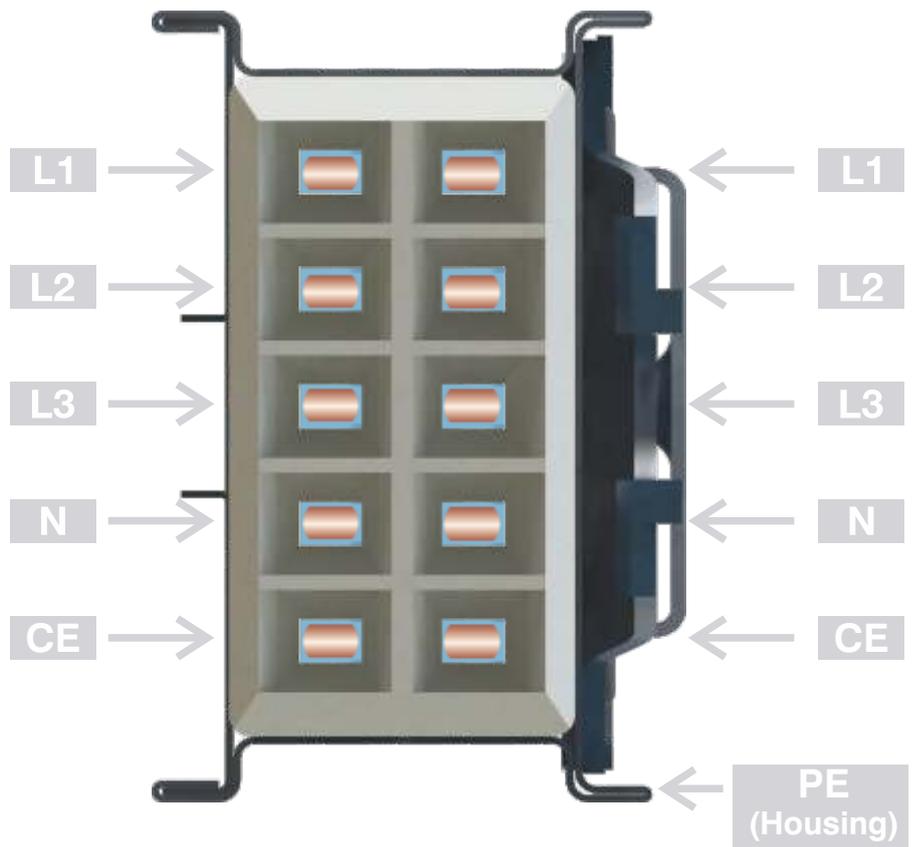
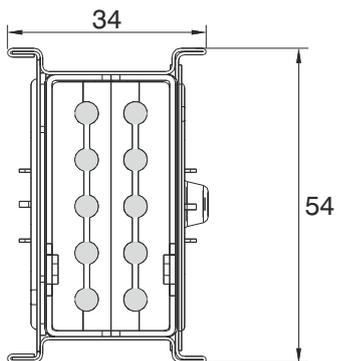
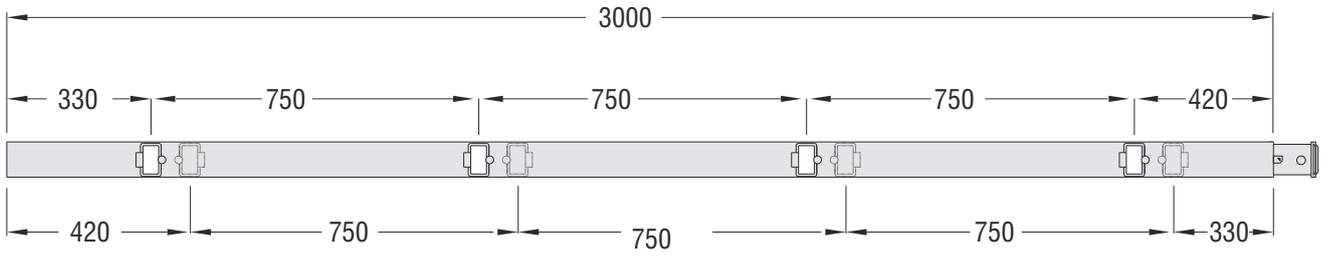
Silver Coated Joint Contacts

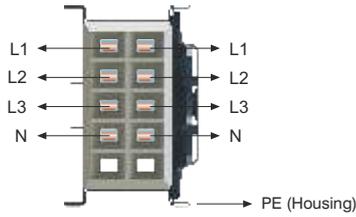
The contacts at the joints of the busbar and the contacts of all tap-off units are silver coated. The silver coating minimises the contact impedances, thus preventing the over-heating of the contacts in case of possible over-loads.



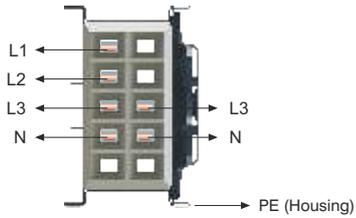
(*) It may be manufactured as painted as per customer request.

■ Body is manufactured from 0.50 mm galvanized sheet steel.

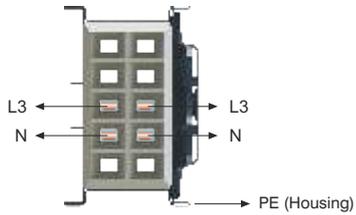




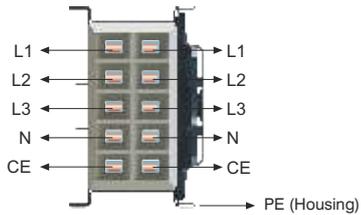
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2424 2x25 A Busbar | 4+4 | 3024786 |
| 32 | DL 3434 2x32 A Busbar | 4+4 | 3024788 |
| 40 | DL 4444 2x40 A Busbar | 4+4 | 3024790 |



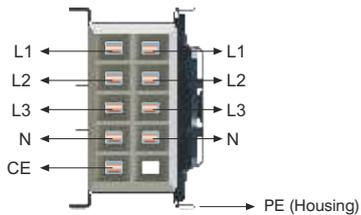
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2422 2x25 A Busbar | 4+2 | 3024792 |
| 32 | DL 3432 2x32 A Busbar | 4+2 | 3024794 |
| 40 | DL 4442 2x40 A Busbar | 4+2 | 3024796 |



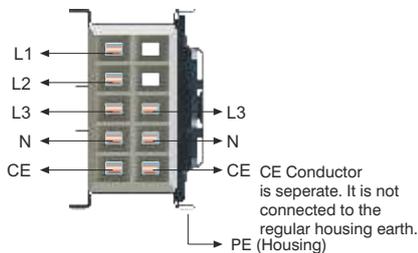
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2222 2x25 A Busbar | 2+2 | 3024798 |
| 32 | DL 3232 2x32 A Busbar | 2+2 | 3024800 |
| 40 | DL 4242 2x40 A Busbar | 2+2 | 3024802 |



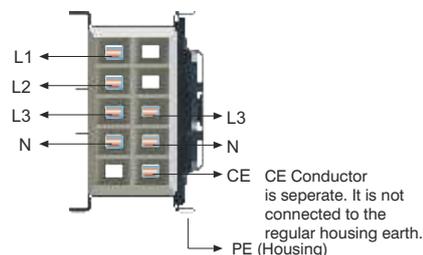
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2525 2x25 A Busbar | 5+5 | 3024804 |
| 32 | DL 3535 2x32 A Busbar | 5+5 | 3024806 |
| 40 | DL 4545 2x40 A Busbar | 5+5 | 3024808 |



| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2524 2x25 A Busbar | 5+4 | 3066712 |
| 32 | DL 3534 2x32 A Busbar | 5+4 | 3066713 |
| 40 | DL 4544 2x40 A Busbar | 5+4 | 3066714 |



| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2523 2x25 A Busbar | 5+3 | 3024810 |
| 32 | DL 3533 2x32 A Busbar | 5+3 | 3024812 |
| 40 | DL 4543 2x40 A Busbar | 5+3 | 3024814 |

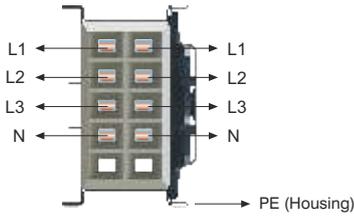


| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-----------------------|-----------------|------------|
| 25 | DL 2423 2x25 A Busbar | 4+3 | 3066718 |
| 32 | DL 3433 2x32 A Busbar | 4+3 | 3066720 |
| 40 | DL 4443 2x40 A Busbar | 4+3 | 3066721 |

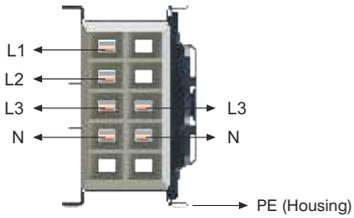
■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

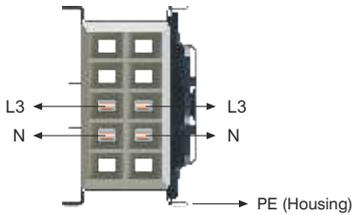
Special Length Busbars are manufactured as 1m/1,5m/2m/2,5m.



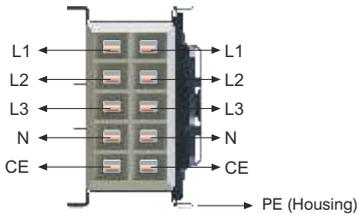
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2424 2x25 A Special Length | 4+4 | 3024822 |
| 32 | DL 3434 2x32 A Special Length | 4+4 | 3024824 |
| 40 | DL 4444 2x40 A Special Length | 4+4 | 3024826 |



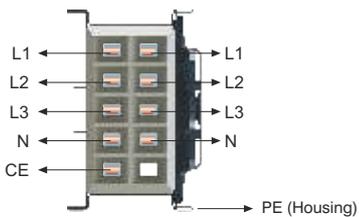
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2422 2x25 A Special Length | 4+2 | 3024828 |
| 32 | DL 3432 2x32 A Special Length | 4+2 | 3024830 |
| 40 | DL 4442 2x40 A Special Length | 4+2 | 3024832 |



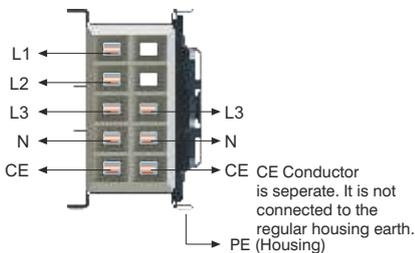
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2222 2x25 A Special Length | 2+2 | 3024834 |
| 32 | DL 3232 2x32 A Special Length | 2+2 | 3024836 |
| 40 | DL 4242 2x40 A Special Length | 2+2 | 3024838 |



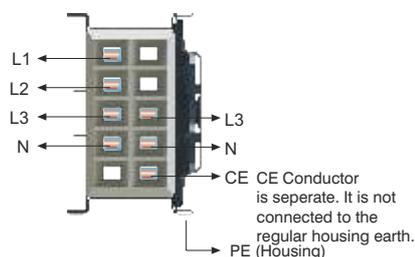
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2525 2x25 A Special Length | 5+5 | 3024840 |
| 32 | DL 3535 2x32 A Special Length | 5+5 | 3024842 |
| 40 | DL 4545 2x40 A Special Length | 5+5 | 3024844 |



| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2524 2x25 A Special Length | 5+4 | 3066715 |
| 32 | DL 3534 2x32 A Special Length | 5+4 | 3066716 |
| 40 | DL 4544 2x40 A Special Length | 5+4 | 3066717 |



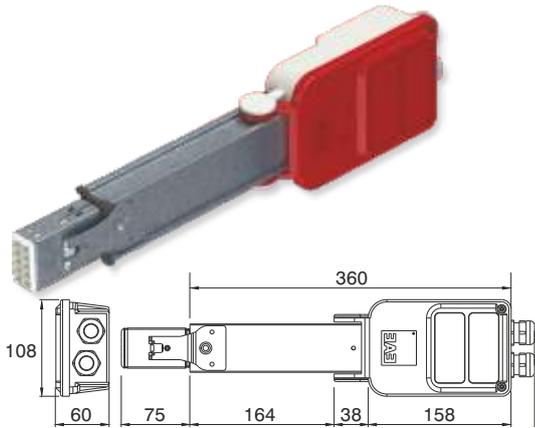
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2523 2x25 A Special Length | 5+3 | 3024846 |
| 32 | DL 3533 2x32 A Special Length | 5+3 | 3024848 |
| 40 | DL 4543 2x40 A Special Length | 5+3 | 3024850 |



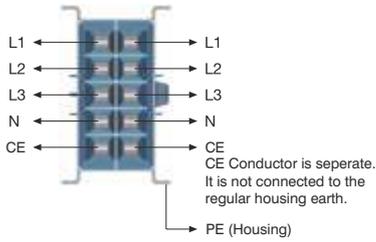
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------|-----------------|------------|
| 25 | DL 2423 2x25 A Special Length | 4+3 | 3066722 |
| 32 | DL 3433 2x32 A Special Length | 4+3 | 3066723 |
| 40 | DL 4443 2x40 A Special Length | 4+3 | 3066724 |

■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.



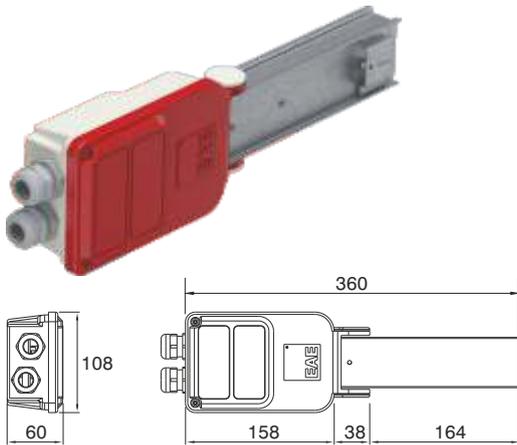
Feeder Unit



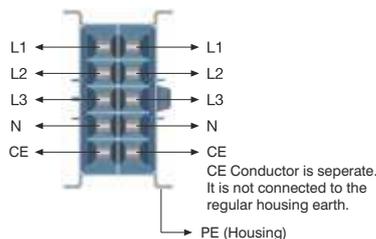
(B1) Feeder Units

| Current (A) | Description | Busbars | Order Code |
|-------------|--------------------------|--|------------|
| 25 | DL 2525 - B1 Feeder Unit | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024858 |
| 32 | DL 3535 - B1 Feeder Unit | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024860 |
| 40 | DL 4545 - B1 Feeder Unit | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3024862 |

* With PE Conductor and M25 Gland as standard.



End Feeder Unit

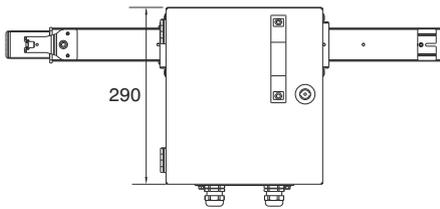
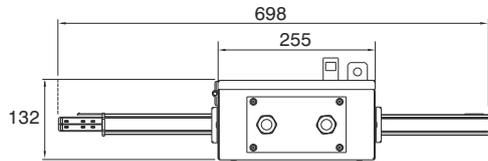


(B2) End Feeder Units

| Current (A) | Description | Busbars | Order Code |
|-------------|------------------------------|--|------------|
| 25 | DL 2525 - B2 End Feeder Unit | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024864 |
| 32 | DL 3535 - B2 End Feeder Unit | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024866 |
| 40 | DL 4545 - B2 End Feeder Unit | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3024868 |

* With PE Conductor and M25 Gland as standard.

- The body is manufactured from 0,50 mm galvanised sheet steel.
- For non-standard product, please contact our technical office.

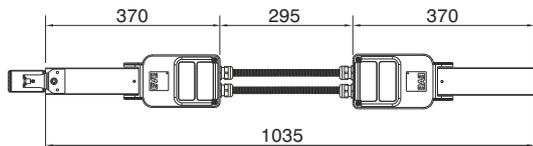


Central Feeder Unit

(BO) Central Feeder Units

| Current (A) | Description | Busbars | Order Code |
|-------------|----------------------------------|--|------------|
| 25 | DL 2525 - BO Central Feeder Unit | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024892 |
| 32 | DL 3535 - BO Central Feeder Unit | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024894 |
| 40 | DL 4545 - BO Central Feeder Unit | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3025164 |

* With PE Conductor and M25 Gland as standard.



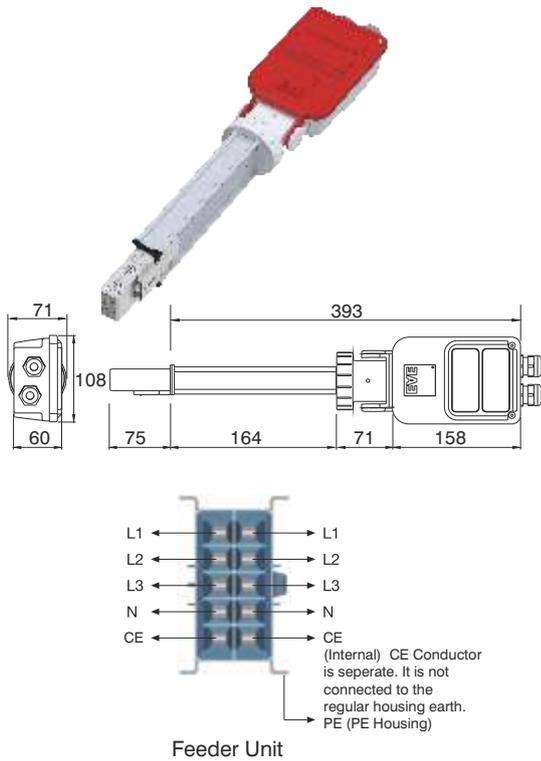
Flexible Elbow

(FD) Flexible Elbow

| Current (A) | Description | Busbars | Order Code |
|-------------|-----------------------------|--|------------|
| 25 | DL 2525 - FD Flexible Elbow | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024882 |
| 32 | DL 3535 - FD Flexible Elbow | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024884 |
| 40 | DL 4545 - FD Flexible Elbow | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3024886 |

* With PE Conductor and M25 Gland as standard.

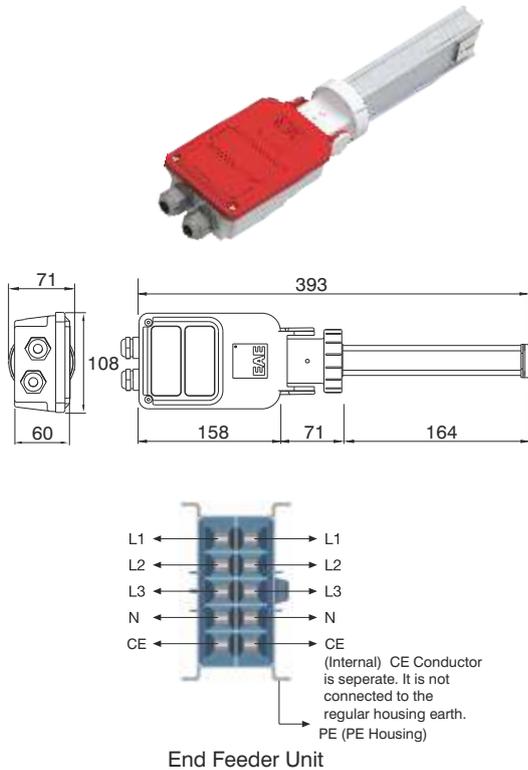
- Body is manufactured from 0.50 mm galvanised sheet steel.
- For non-standard product, please contact our technical office.



(B1) Feeder Units

| Current (A) | Description | Busbars | Order Code |
|-------------|--|--|------------|
| 25 | DL 2525 - B1 Raised Underfloor Feeder Unit | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024541 |
| 32 | DL 3535 - B1 Raised Underfloor Feeder Unit | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024542 |
| 40 | DL 4545 - B1 Raised Underfloor Feeder Unit | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3024543 |

* With PE conductor and M25 Gland as standard.



(B2) End Feeder Units

| Current (A) | Description | Busbars | Order Code |
|-------------|--|--|------------|
| 25 | DL 2525 - B2 Raised Underfloor End Feeder Unit | DL 2424 DL 2422 DL 2222 DL 2524 DL 2523 DL 2423 | 3024544 |
| 32 | DL 3535 - B2 Raised Underfloor End Feeder Unit | DL 3434 DL 3432 DL 3232 DL 3534 DL 3533 DL 3423 | 3024545 |
| 40 | DL 4545 - B2 Raised Underfloor End Feeder Unit | DL 4444 DL 4442 DL 4242 DL 4544 DL 4543 DL 4443 | 3024546 |

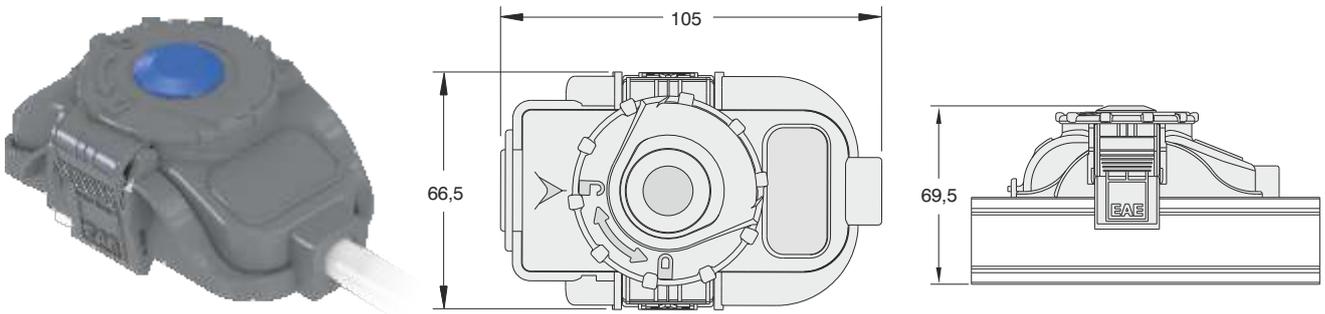
* With PE conductor and M25 Gland as standard.

■ Body is manufactured from 0.50 mm galvanised sheet steel.
 ■ For non-standard product, please contact our technical office.

Tap-off Plug (B)

| Current (A) | Description | Cable Length / Type | | Phase | Properties | Order Code | |
|-------------|----------------------------------|---|--|-------------------|-------------------|--------------|----------------|
| | | Halogen Free | Standard (PVC) | | | Halogen Free | Standard (PVC) |
| 16 | DL / SL 16 - B Tap-off Plug L1 | 0,75 m. | 0,75 m. | L1, N, PE | With Black Cover | 3063696 | 3086972 |
| | DL / SL 16 - B Tap-off Plug L2 | 052XZ1-F 3x1,5 mm ² cable(*) | NYMHY 3x1,5 mm ² cable(*) | L2, N, PE | With Yellow Cover | 3063697 | 3086974 |
| | DL / SL 16 - B Tap-off Plug L3 | | | L3, N, PE | With Blue Cover | 3063698 | 3086975 |
| | DL / SL 16 - B Tap-off Plug L123 | 5x1,5 mm ² | 5x1,5 mm ² | L1, L2, L3, N, PE | With Grey Cover | 3066319 | 3086976 |

* Plugs with different length cable available upon request.

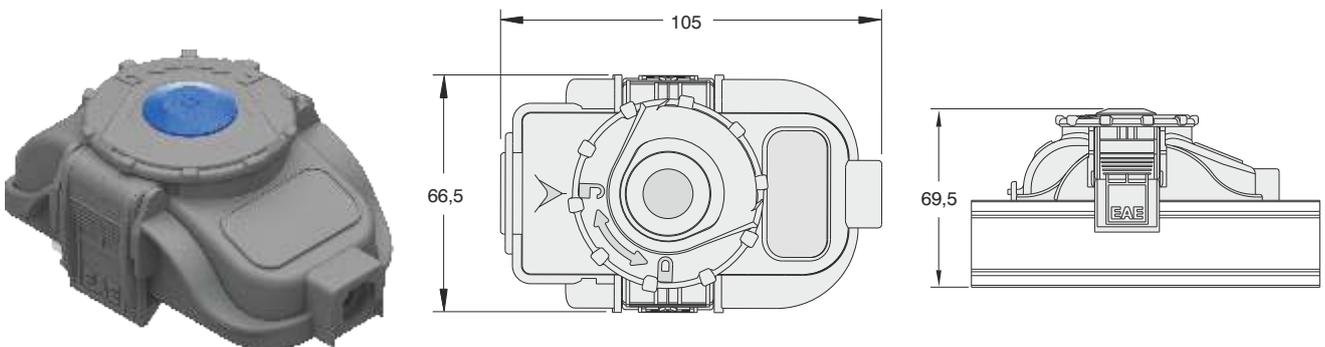


DL / SL 16 - B

Plug with Fuse Holder (FS) / Plug with Clips (K)

| Current (A) | Description | Cable Length / Type | Phase | Properties | Order Code |
|-------------|----------------------------------|---------------------|-------------------|-------------------|------------|
| 16 | DL / SL 16 - FS Tap-off Plug L1 | - | L1, N, PE | With Black Cover | 3063703 |
| | DL / SL 16 - FS Tap-off Plug L2 | - | L2, N, PE | With Yellow Cover | 3063704 |
| | DL / SL 16 - FS Tap-off Plug L3 | - | L3, N, PE | With Blue Cover | 3063705 |
| 16 | DL / SL 16 - K Tap-off Plug L1 | - | L1, N, PE | Without Fuses. | 3063699 |
| | DL / SL 16 - K Tap-off Plug L2 | - | L2, N, PE | Without Fuses. | 3063701 |
| | DL / SL 16 - K Tap-off Plug L3 | - | L3, N, PE | Without Fuses. | 3063702 |
| | DL / SL 16 - K Tap-off Plug L123 | - | L1, L2, L3, N, PE | Without Fuses. | 3063700 |

** Cylindrical fuse not included.

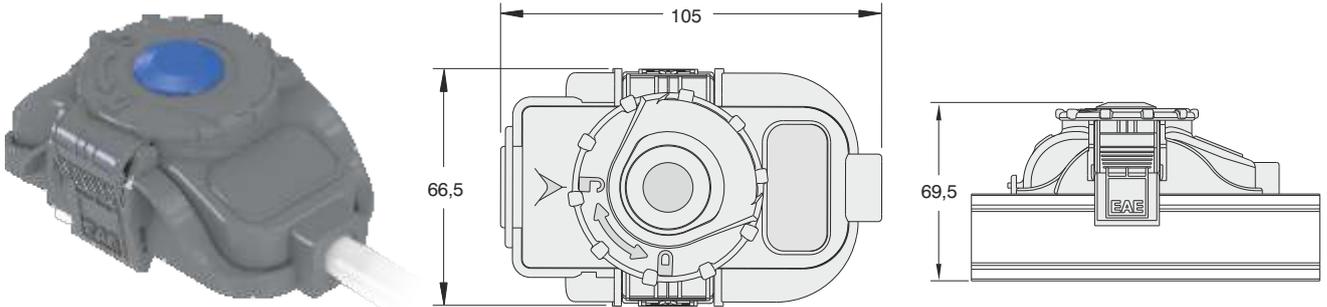


DL / SL 16 - FS
DL / SL 16 - K

Tap-off Plug (B) (Clean Earth)

| Current (A) | Description | Cable Length / Type | | Phase | Properties | Order Code | |
|-------------|---------------------------------------|---|--|-------------------|-------------------|--------------|----------------|
| | | Halogen Free | Standard (PVC) | | | Halogen Free | Standard (PVC) |
| 16 | DL / SL 16 - B - CE Tap-off Plug L1 | 0,75 m. | 0,75 m. | L1, N, CE | With Black Cover | 3063709 | 3086978 |
| | DL / SL 16 - B - CE Tap-off Plug L2 | 052XZ1-F 3x1,5 mm ² cable(*) | NYMHY 3x1,5 mm ² cable(*) | L2, N, CE | With Yellow Cover | 3063710 | 3086979 |
| | DL / SL 16 - B - CE Tap-off Plug L3 | | | L3, N, CE | With Blue Cover | 3063711 | 3086980 |
| | DL / SL 16 - B - CE Tap-off Plug L123 | 5x1,5 mm ² | 5x1,5 mm ² | L1, L2, L3, N, CE | With Grey Cover | 3066323 | 3086982 |

* Plugs with different length cable available upon request.

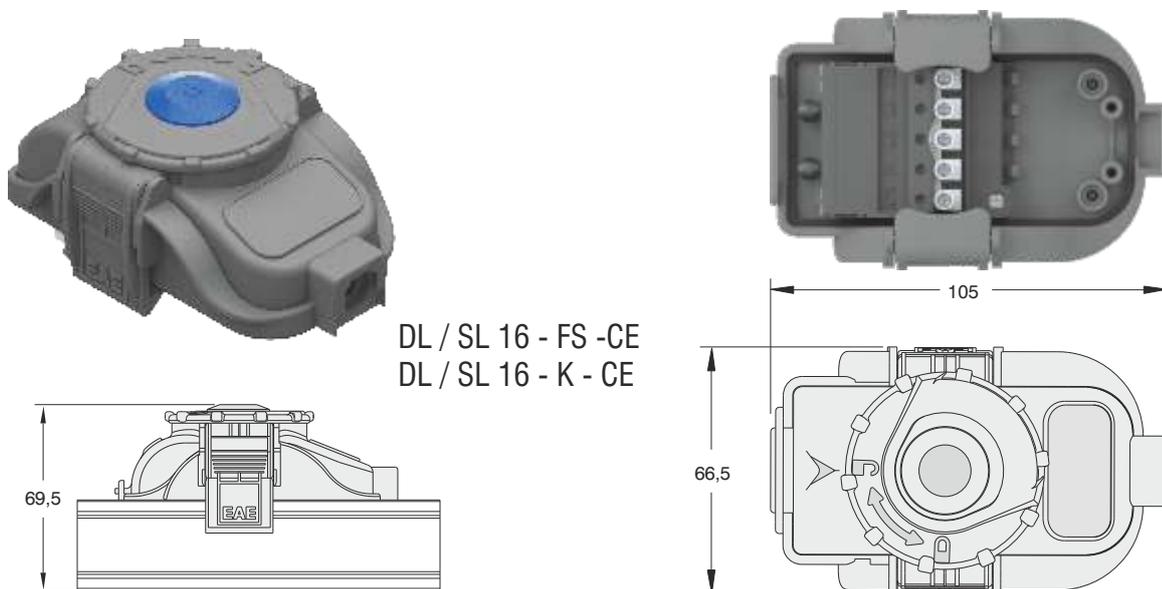


DL / SL 16 - B - CE

Plug with Fuse Holder (FS) / Plug with Clips (K) (Clean Earth)

| Current (A) | Description | Cable Length / Type | Phase | Properties | Order Code | |
|-------------|---------------------------------------|---------------------|-------------------|-------------------|---|---------|
| 16 | DL / SL 16 - FS - CE Tap-off Plug L1 | - | L1, N, CE | With Black Cover | With 5 x 20 mm fuse holders (**) Max. diameter of feeder cable is Ø 11 mm. | 3063717 |
| | DL / SL 16 - FS - CE Tap-off Plug L2 | - | L2, N, CE | With Yellow Cover | | 3063718 |
| | DL / SL 16 - FS - CE Tap-off Plug L3 | - | L3, N, CE | With Blue Cover | | 3063719 |
| 16 | DL / SL 16 - K - CE Tap-off Plug L1 | - | L1, N, CE | With Black Cover | Without Fuses. Max. diameter of feeder cable is Ø 11 mm. | 3063712 |
| | DL / SL 16 - K - CE Tap-off Plug L2 | - | L2, N, CE | With Yellow Cover | | 3063715 |
| | DL / SL 16 - K - CE Tap-off Plug L3 | - | L3, N, CE | With Blue Cover | | 3063716 |
| | DL / SL 16 - K - CE Tap-off Plug L123 | - | L1, L2, L3, N, CE | With Grey Cover | | 3063713 |

** Cylindrical fuse not included.



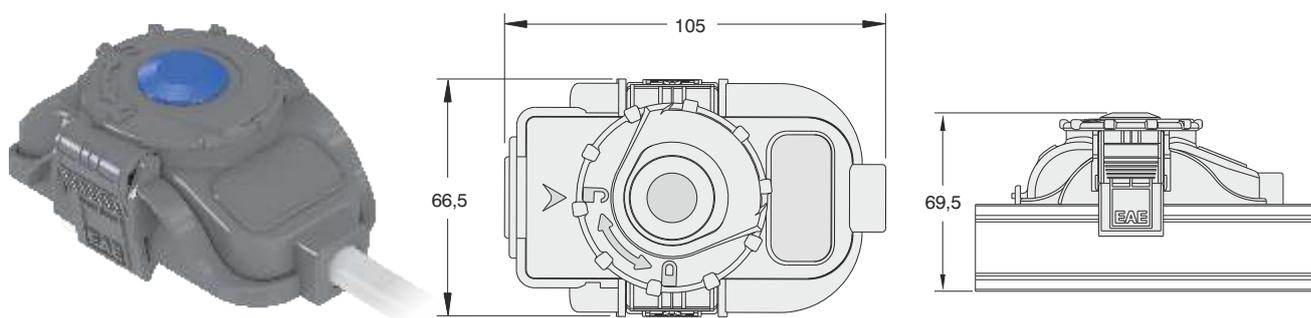
DL / SL 16 - FS - CE
DL / SL 16 - K - CE

Tap-off Plug (BL)**

| Current (A) | Description | Cable Length / Type | Phase | Properties | Order Code |
|-------------|---------------------------------|---|-----------|-------------------|--------------|
| | | | | | Halogen Free |
| 10 | DL / SL 10 - BL Tap-off Plug L1 | 0,75 m. 052XZ1-F 3x0,75 mm ² cable(*) | L1, N, PE | With Black Cover | 3134599 |
| | DL / SL 10 - BL Tap-off Plug L2 | | L2, N, PE | With Yellow Cover | 3134600 |
| | DL / SL 10 - BL Tap-off Plug L3 | | L3, N, PE | With Blue Cover | 3134601 |

* Plugs with different length cable available upon request.

** It is used only for lighting fittings supply in lighting circuits.



DL / SL 10 - BL



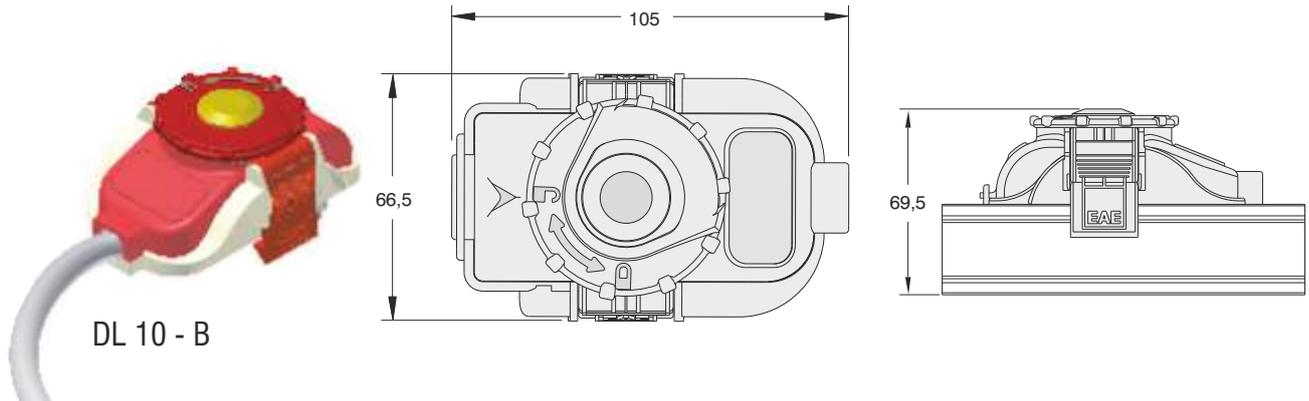
▶▶ Product Selection Tables / Tap-off Plugs (Old Model)

(WARNING: Tap-off Plugs, which will be used with DL Busbar bought before April 2015, should be selected from this page.)

Tap-off Plug (B)

| Current (A) | Description | Cable Length / Type | Phase | Properties | Order Code |
|-------------|---------------------------|---------------------|-----------|-------------------|------------|
| 10 | DL 10 - B Tap-off Plug L1 | 0,75 m. NYMHY Cable | L1, N, PE | With Black Cover | 3024870 |
| | DL 10 - B Tap-off Plug L2 | 0,75 m. NYMHY Cable | L2, N, PE | With Yellow Cover | 3024871 |
| | DL 10 - B Tap-off Plug L3 | 0,75 m. NYMHY Cable | L3, N, PE | With Blue Cover | 3024872 |

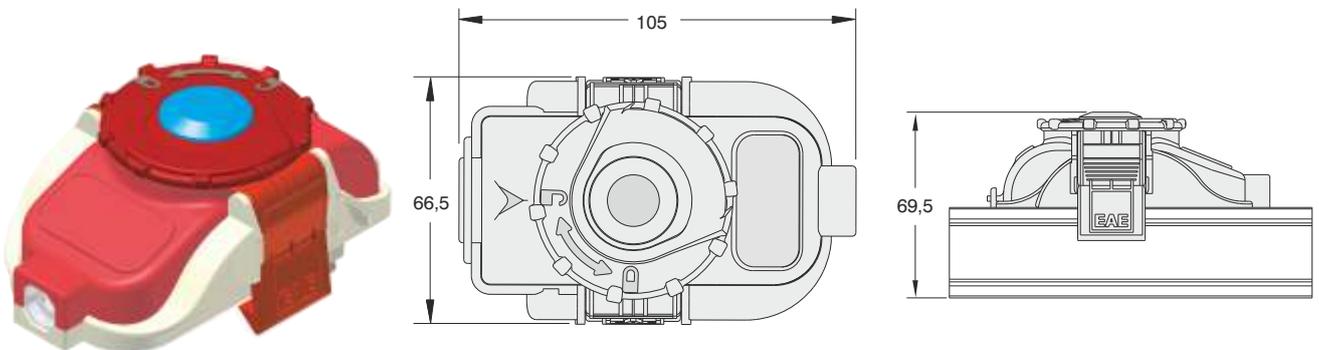
* Plugs with different length cable available upon request.



Plug with Fuse Holder (FS) / Plug with Clips (K)

| Current (A) | Description | Cable Length | Phase | Properties | Order Code |
|-------------|-----------------------------|--------------|-------------------|---|------------|
| 16 | DL 16 - FS Tap-off Plug L1 | - | L1, N, PE | With 5 x 20 mm fuse holders (**) Max. diameter of feeder cable is Ø 11 mm. | 3024873 |
| | DL 16 - FS Tap-off Plug L2 | - | L2, N, PE | | 3024874 |
| | DL 16 - FS Tap-off Plug L3 | - | L3, N, PE | | 3024875 |
| 16 | DL 16 - K Tap-off Plug L1 | - | L1, N, PE | Without Fuses. Max. diameter of feeder cable is Ø 11 mm. | 3024778 |
| | DL 16 - K Tap-off Plug L2 | - | L2, N, PE | | 3024777 |
| | DL 16 - K Tap-off Plug L3 | - | L3, N, PE | | 3024776 |
| | DL 16 - K Tap-off Plug L123 | - | L1, L2, L3, N, PE | | 3024775 |

** Cylindrical fuse not included.



DL 16 - FS
DL 16 - K

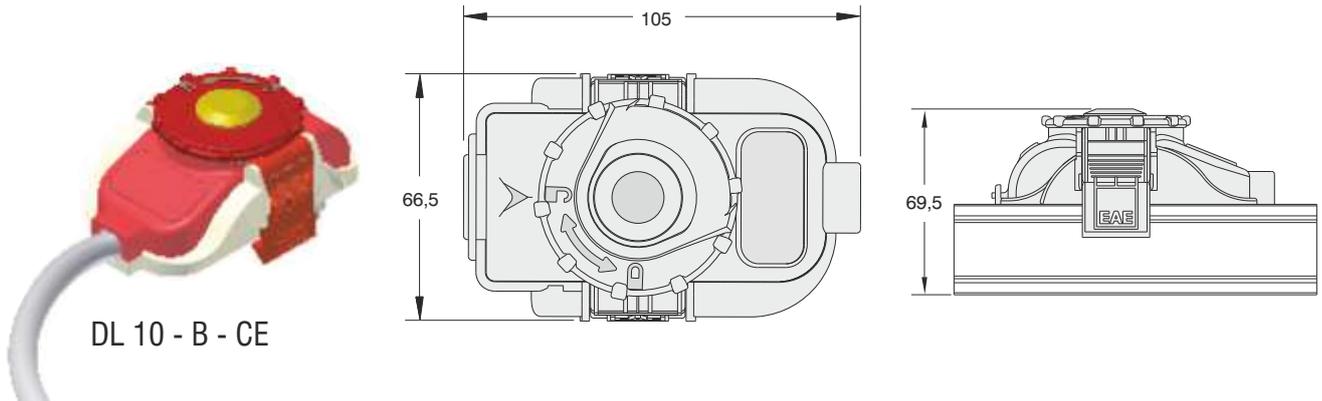
▶▶ Product Selection Tables / Tap-off Plugs (Clean Earth) (Old Model)

(WARNING: Tap-off Plugs, which will be used with DL Busbar bought before April 2015, should be selected from this page.)

Tap-off Plugs (B) (Clean Earth)

| Current (A) | Description | Cable Length / Type | Phase | Properties | Order Code |
|-------------|---------------------------------|---------------------|-----------|-------------------|------------|
| 10 | DL 10 - B - CE Tap-off Plug L1* | 0,75 m. NYMHY Cable | L1, N, CE | With Black Cover | 3024779 |
| | DL 10 - B - CE Tap-off Plug L2* | 0,75 m. NYMHY Cable | L2, N, CE | With Yellow Cover | 3024780 |
| | DL 10 - B - CE Tap-off Plug L3* | 0,75 m. NYMHY Cable | L3, N, CE | With Blue Cover | 3024781 |

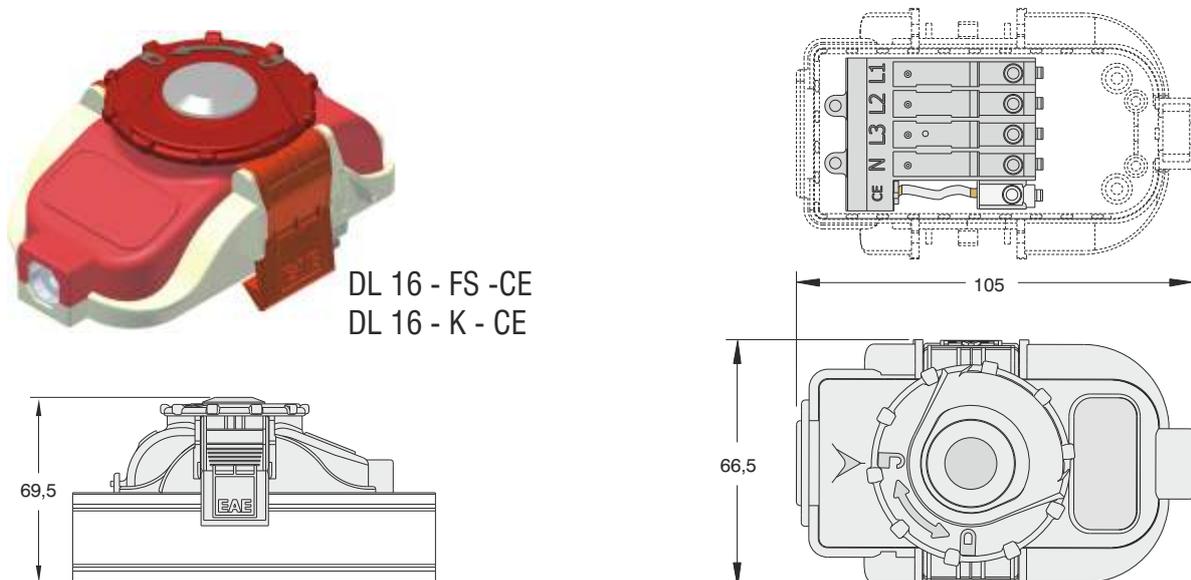
* Plugs with different length cable available upon request.



Plug with Fuse Holder (FS) / Plug with Clips (K)(Clean Earth)

| Current (A) | Description | Cable Length | Phase | Properties | Order Code |
|-------------|----------------------------------|--------------|-------------------|---|------------|
| 16 | DL 16 - FS - CE Tap-off Plug L1 | - | L1, N, CE | With 5 x 20 mm fuse holders (**). Max. diameter of feeder cable is Ø 11 mm. | 3024881 |
| | DL 16 - FS - CE Tap-off Plug L2 | - | L2, N, CE | | 3024785 |
| | DL 16 - FS - CE Tap-off Plug L3 | - | L3, N, CE | | 3024784 |
| 16 | DL 16 - K - CE Tap-off Plug L1 | - | L1, N, CE | Without Fuses. Max. diameter of feeder cable is Ø 11 mm. | 3024592 |
| | DL 16 - K - CE Tap-off Plug L2 | - | L2, N, CE | | 3024591 |
| | DL 16 - K - CE Tap-off Plug L3 | - | L3, N, CE | | 3024590 |
| | DL 16 - K - CE Tap-off Plug L123 | - | L1, L2, L3, N, CE | | 3024589 |

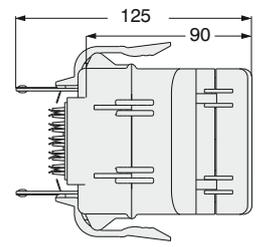
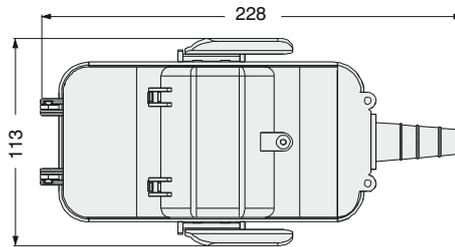
** Cylindrical fuse not included.



Suitable for MCB Empty Tap-off Box (S)

| Current (A) | Description | Phase | Properties | Order Code |
|-------------|---|-------------------|--|------------|
| 25 | DL/SL 25 - S Empty Tap-off Box(CE)* L1,L2,L3 | L1, L2, L3, N, CE | Included DIN rail. It can be used with MCB.(*) | 3024481 |
| | DL/SL 25 - S Empty Tap-off Box(CE)* L1 | L1, N, CE | | 3066511 |
| | DL/SL 25 - S Empty Tap-off Box(CE)* L2 | L2, N, CE | | 3066512 |
| | DL/SL 25 - S Empty Tap-off Box(CE)* L3 | L3, N, CE | | 3066513 |
| | DL/SL 25 - S Empty Tap-off Box (PE)* L1,L2,L3 | L1, L2, L3, N, PE | | 3024482 |
| | DL/SL 25 - S Empty Tap-off Box (PE)* L1 | L1, N, PE | | 3066508 |
| | DL/SL 25 - S Empty Tap-off Box (PE)* L2 | L2, N, PE | | 3066509 |
| | DL/SL 25 - S Empty Tap-off Box (PE)* L3 | L3, N, PE | | 3066510 |

* MCB not included.

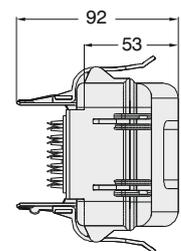
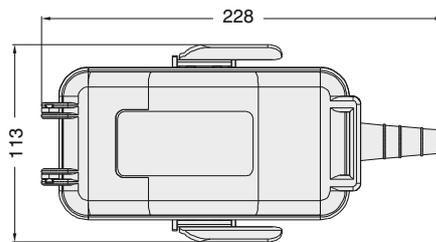


DL 25 - S (CE)
DL 25 - S (PE)

Suitable for Fuse Holder Empty Tap-off Box (FS)

| Current (A) | Description | Phase | Properties | Order Code |
|-------------|--|-------------------|--|------------|
| 16 | DL/SL 16 - FS Empty Tap-off Box(CE)* L1,L2,L3 | L1, L2, L3, N, CE | Included DIN rail. It can be used with 10x38mm cylindrical fuse holder and cylindrical fuse. (**) | 3084928 |
| | DL/SL 16 - FS Empty Tap-off Box(CE)* L1 | L1, N, CE | | 3084929 |
| | DL/SL 16 - FS Empty Tap-off Box(CE)* L2 | L2, N, CE | | 3084930 |
| | DL/SL 16 - FS Empty Tap-off Box(CE)* L3 | L3, N, CE | | 3084931 |
| | DL/SL 16 - FS Empty Tap-off Box (PE)* L1,L2,L3 | L1, L2, L3, N, PE | | 3084923 |
| | DL/SL 16 - FS Empty Tap-off Box (PE)* L1 | L1, N, PE | | 3084925 |
| | DL/SL 16 - FS Empty Tap-off Box (PE)* L2 | L2, N, PE | | 3084926 |
| | DL/SL 16 - FS Empty Tap-off Box (PE)* L3 | L3, N, PE | | 3084927 |

** Cylindrical fuse not included.

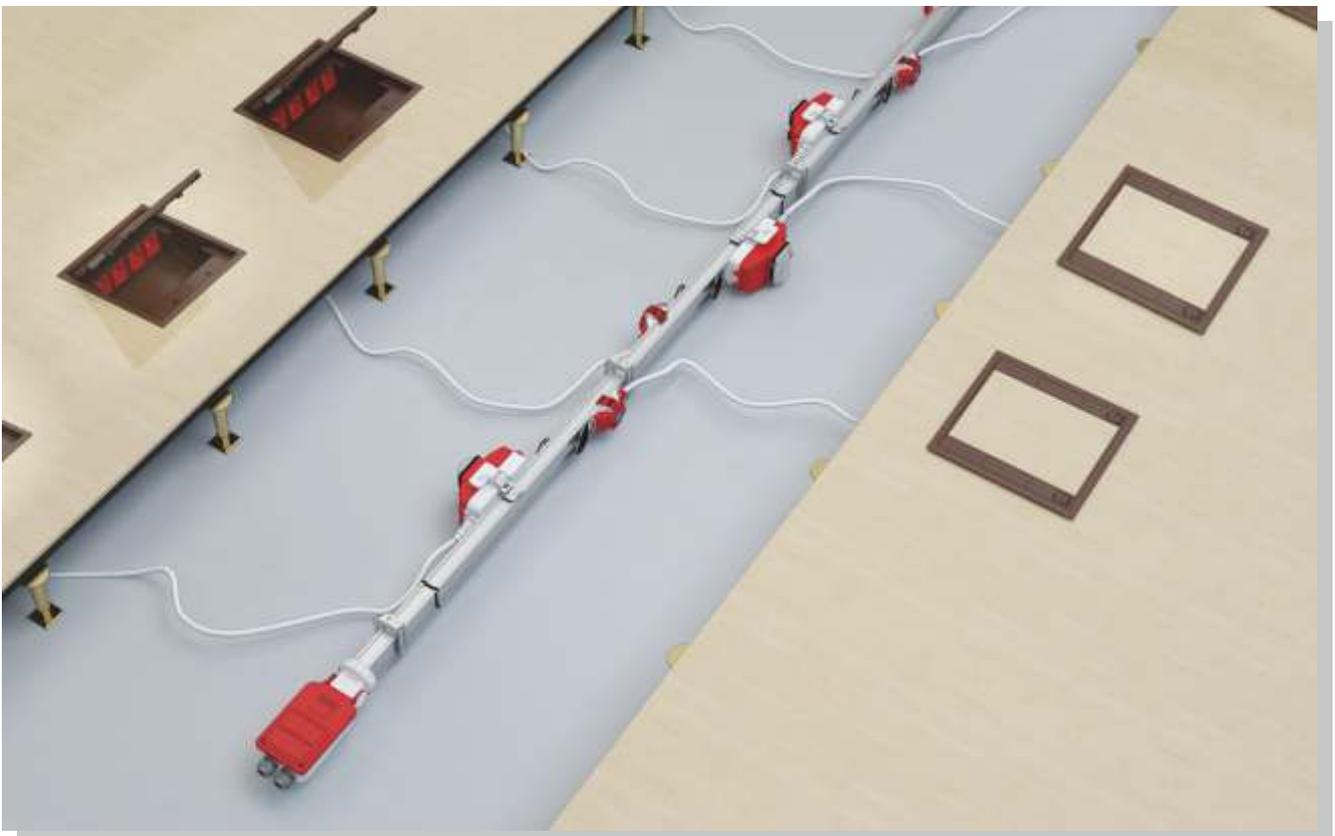


DL 16 - FS (CE)
DL 16 - FS (PE)

False Ceiling (Lighting Circuits)

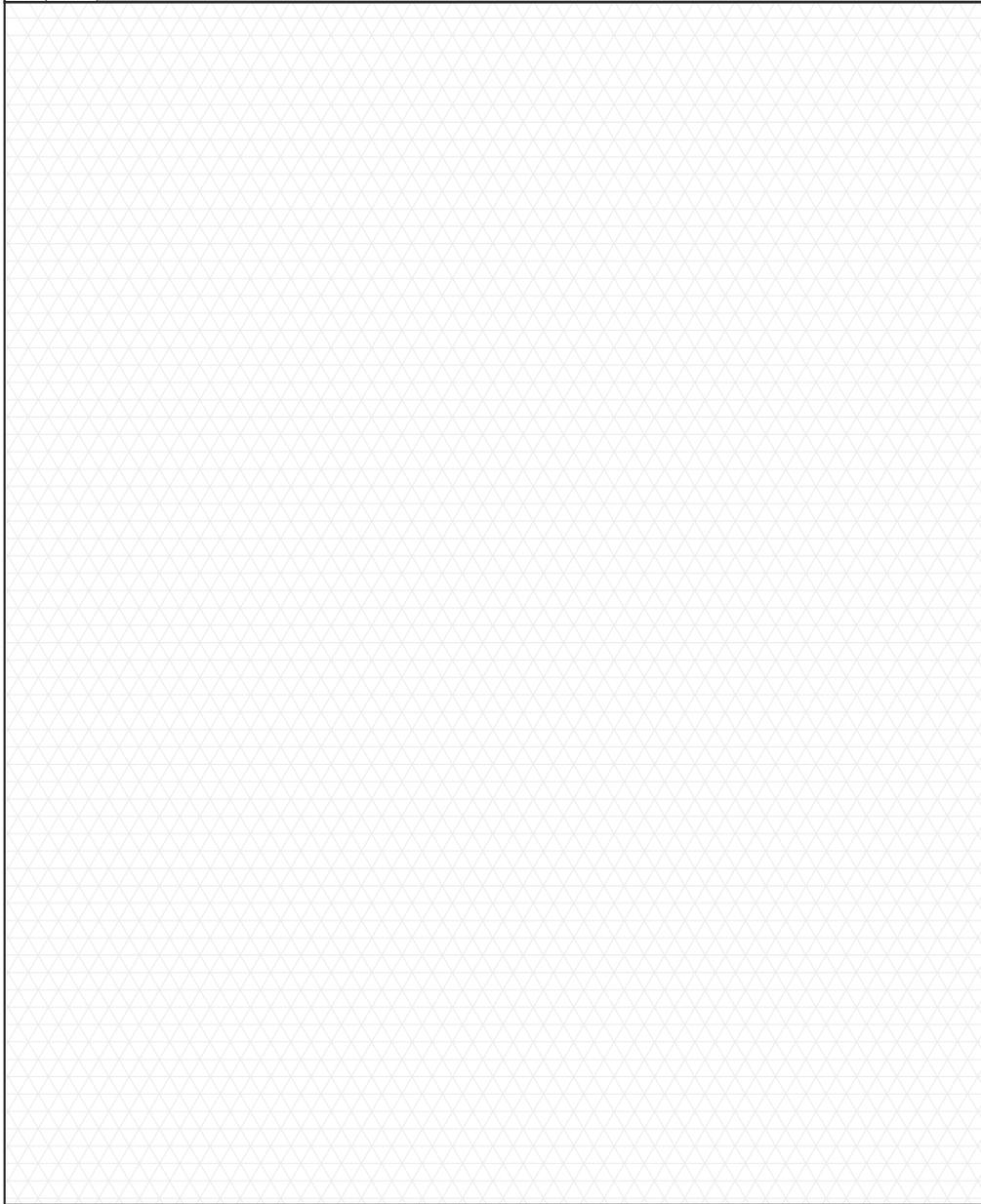
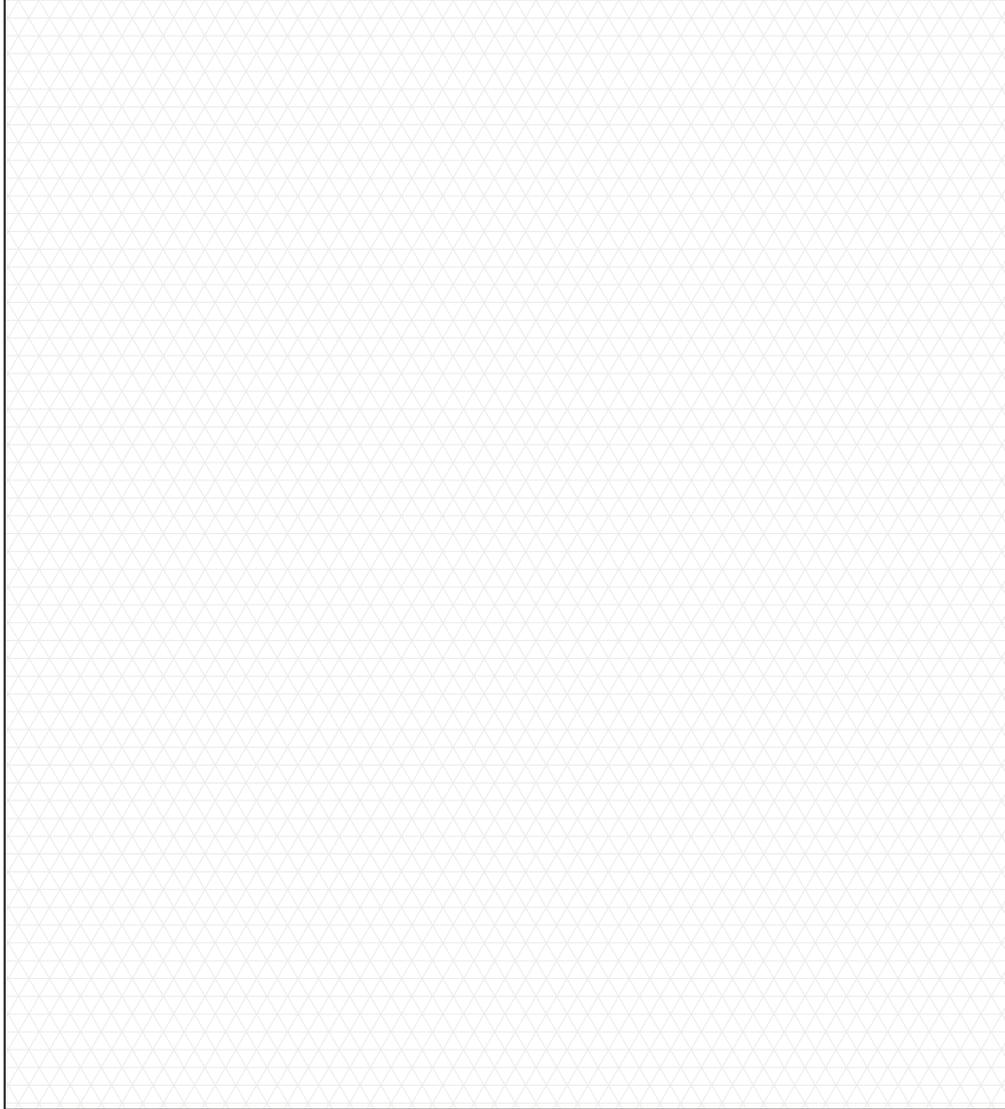


Raised Underfloor (Power Circuits; Mains / UPS)



Open / High Ceiling (Lighting Circuits)



| Component List | Item | Component | Quantity | | |
|---|------|-----------|----------|--------------|-------------|
|  | | | | Company : | Prepared by |
| | | | | Project : | |
| | | | | Project No : | |
|  | | | | Name : | |
| | | | | Date : | |
| | | | | Signature : | |

Please duplicate this page for your own use.



ELINEDL-DALI

►► General Characteristics

E-Line DL-DALI Busbar Systems are used in the building lighting installations where 25-40A energy is needed. In order to be controlled within the lighting management system of DALI ballast lighting fittings. 16A plugs are designed in order to control and supply energy to the lighting fittings with DALI Ballast.

EAE Busbar Systems are produced in accordance with ISO 9001 standards with a certified Quality Assurance System using the world's latest manufacturing technologies. Units are designed and tested according to IEC 61439-6.



Tap-off Plugs

Tap-off plugs of DL-DALI busbar systems are designed with different contact arrangements. All the plugs are produced in one direction to prevent the use of a wrong phase.

Safety

Earth contacts of the tap-off plugs make first when plugging-in, and the contact breaks last when unplugging.

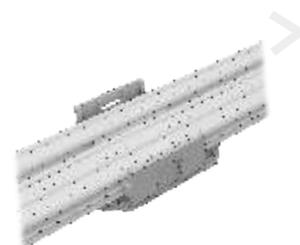
Colour Coded Covers Indicate The Phases

The covers of the tap-off plugs are designed with different colours to indicate which phase the light fittings are fed from.



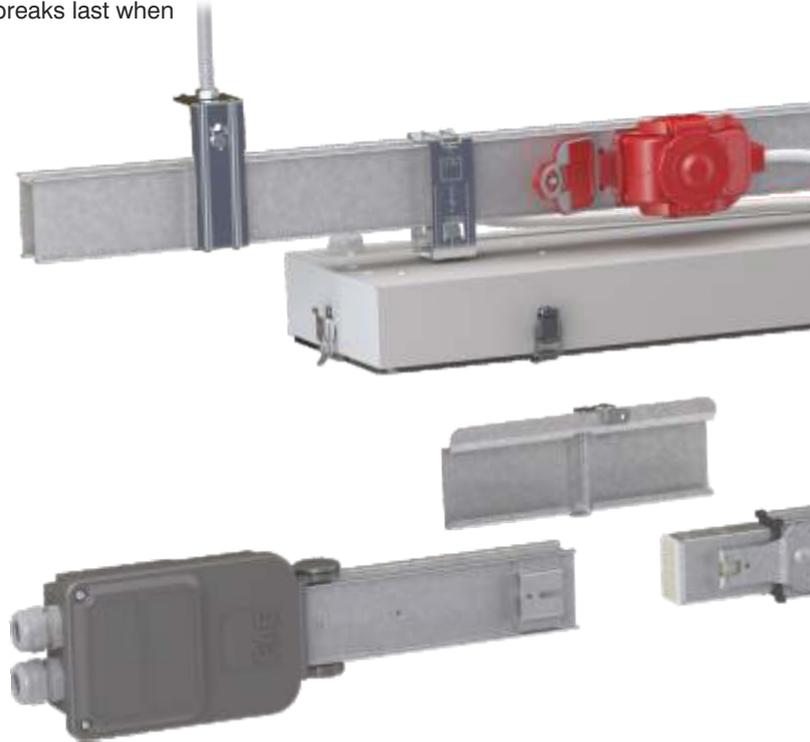
Fast, Easy and Secure Assembly

Achieved with single action by driving the mechanical and electrical joint silver coated spring coated contacts towards each other. The joint is secured by tightening one screw. It is not necessary to install the joint cover to secure the joint.



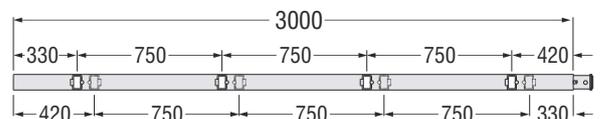
Full Isolation

The busbar conductors are coated in flame-proof insulation material. Total security regarding human safety is provided even when the body is severely damaged due to external heavy impacts that may occur.

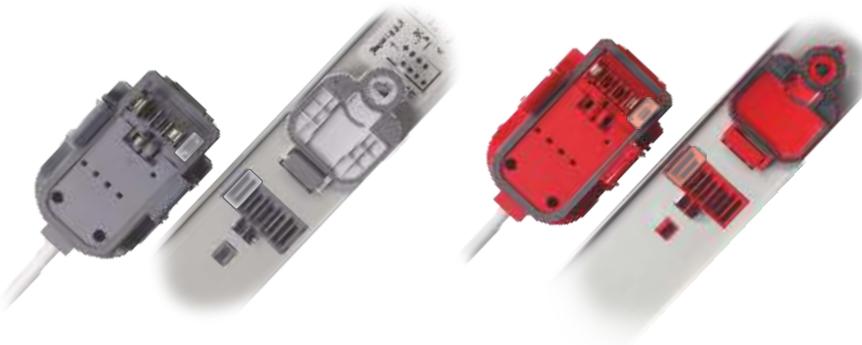


Total of 8 plug-in points; 4 Plug-in points for Mains and 4 Plug-in points for control are provided on a Standard 3m Length

A total of 8 plug-in points (4 each side) are provided as standard.

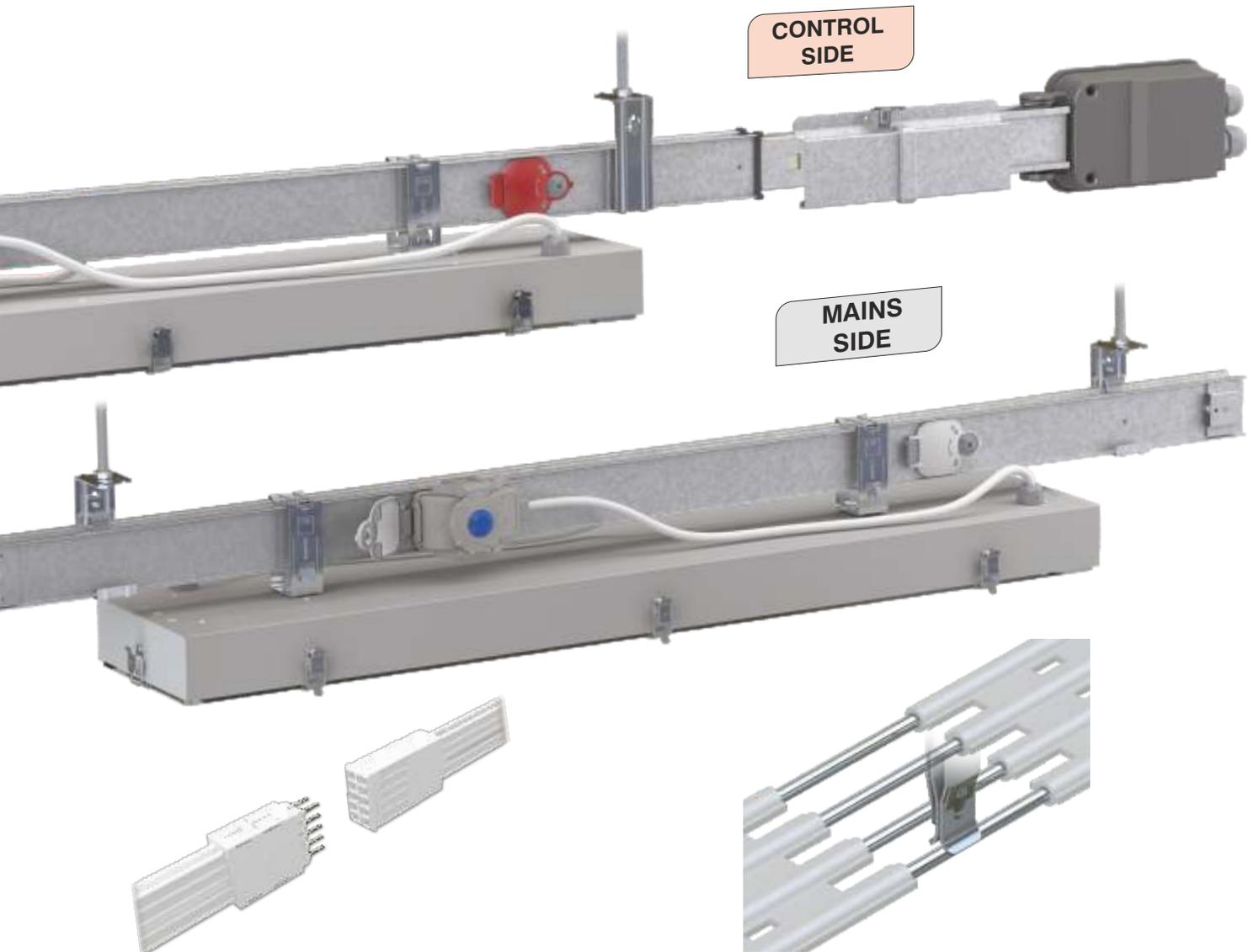


Body is manufactured from 0.50 mm thick, galvanized sheet metal.



Addressed Plug and Window

Plugs and plug-in windows are addressed to prevent any faulty usage.
(Supply plugs can not be used in the control side of the busbar and control plugs can not be used in the mains side.)

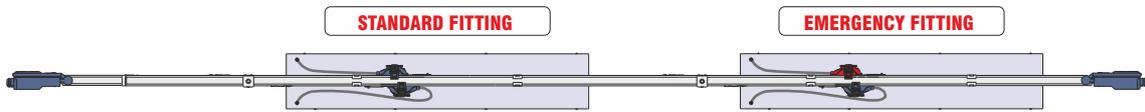


Silver Coated Joint Contacts

The contacts at the joints of the busbar and the contacts of all tap-off units are silver coated. The silver coating minimises the contact impedances, thus preventing the over-heating of the contacts in case of possible over-loads.

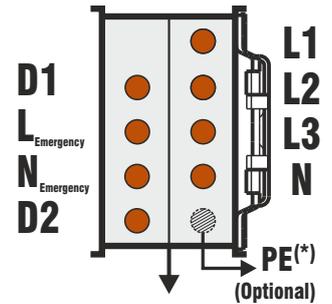
Tin Coated Conductors and Contact Structure

Formation of Copper Oxide is prevented by tin plating the conductors along their full length. This ensures that contact resistances are minimised. The contacts of the tap-off plugs contact the busbar conductors on two surfaces.



Three Phase DALI Busbar

| Current (A) | Description | Conductor Conf. | Order Code | |
|-------------|-----------------------------------|-----------------|------------|---------|
| | | | (4+4) | (4+5) |
| 25 | DL -2424/2425 - DALI - STD Busbar | 4+4(5) | 3063687 | 3063707 |
| 32 | DL -3434/3435 - DALI - STD Busbar | | 3063815 | 3063816 |
| 40 | DL -4444/4445 - DALI - STD Busbar | | 3063819 | 3063820 |



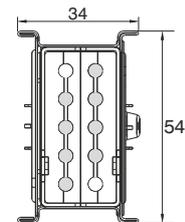
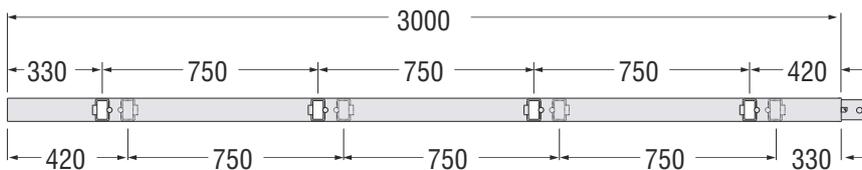
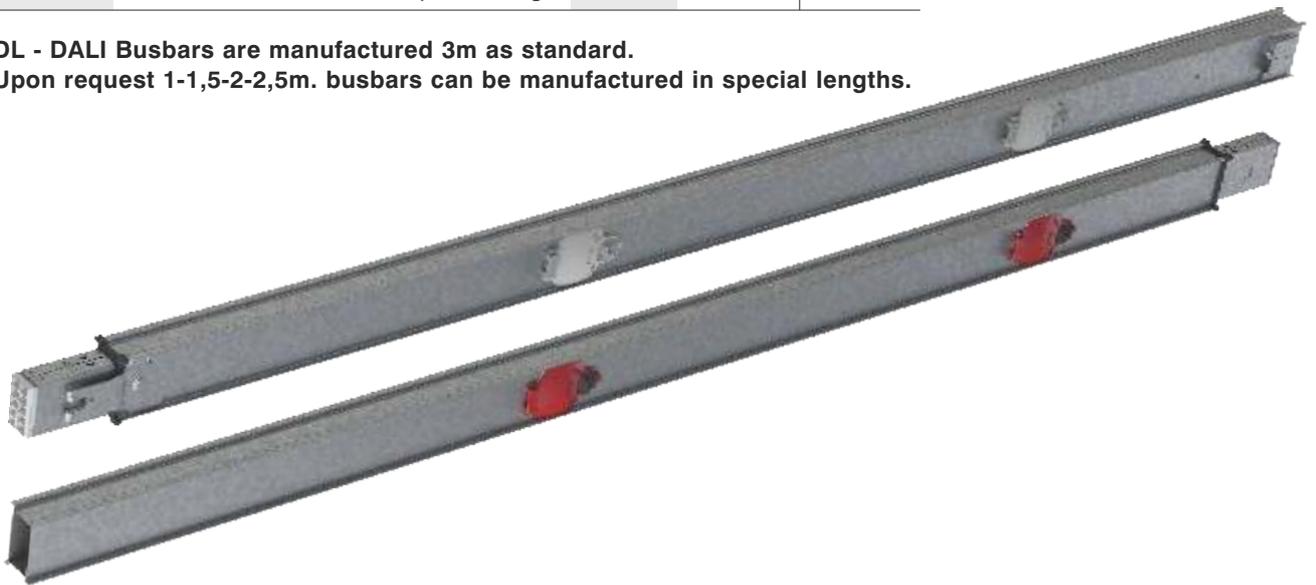
(PE Housing)

(*) Based on requirement "PE" can be manufactured as a separate conductor independent from housing.

Three Phase DALI Special Length

| Current (A) | Description | Conductor Conf. | Order Code | |
|-------------|--|-----------------|------------|---------|
| | | | (4+4) | (4+5) |
| 25 | DL - 2424/2425 - DALI - X Special Length | 4+4(5) | 3063688 | 3063708 |
| 32 | DL - 3434/3435 - DALI - X Special Length | | 3063823 | 3063824 |
| 40 | DL - 4444/3435 - DALI - X Special Length | | 3063827 | 3063828 |

DL - DALI Busbars are manufactured 3m as standard. Upon request 1-1,5-2-2,5m. busbars can be manufactured in special lengths.



■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

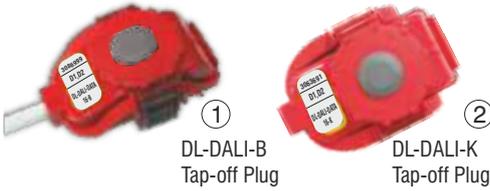
Product Selection Tables / Tap-off Plugs (For Three Phase Busbars) CONTROL (LEFT SIDE)

- ▶ **DALI Tap-off Plug (B)**
(Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|--|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL - DALI 16 -B Tap-off Plug (D1, D2) | 3063689 | 3086999 |

- ▶ **DALI Tap-off Plug (K)(with Clips)**

| Description | Order Code |
|--|------------|
| DL - DALI 16 -K Tap-off Plug (D1, D2) | 3063691 |



- ▶ **DALI+Emergency Tap-off Plug (B)**
(Cables are of 4x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|---|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DALI+ACK 16 -B Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063693 | 3086998 |

- ▶ **DALI Emergency Tap-off Plug (K) (with Clips)**

| Description | Order Code |
|---|------------|
| DALI+ACK 16 -K Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063694 |

- ▶ **DALI Emergency Tap-off Plug(FS) (Fuse Holder)(*)**

| Description | Order Code |
|---|------------|
| DALI+ACK 16-FS Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063695 |

* The cylindrical fuse holder is 5x20mm and the fuse is not included.



WARNING :

Lighting fittings must be on the same phase as the emergency kit.

MAINS (RIGHT SIDE)

- ▶ **DL/SL Tap-off Plugs (B)**
(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

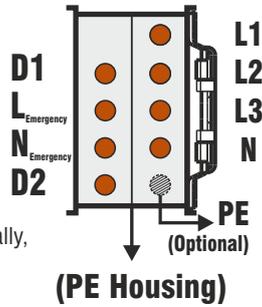
| Description | Order Code | |
|--|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| ① DL/SL 16 - B Tap-off Plug L1 (L1, N, PE _{Housing}) | 3063696 | 3086972 |
| ② DL/SL 16 - B Tap-off Plug L2 (L2, N, PE _{Housing}) | 3063697 | 3086974 |
| ③ DL/SL 16 - B Tap-off Plug L3 (L3, N, PE _{Housing}) | 3063698 | 3086975 |
| Optional ① DL/SL 16 - B Tap-off Plug L1 (L1, N, PE) | 3063709 | 3086978 |
| Optional ② DL/SL 16 - B Tap-off Plug L2 (L2, N, PE) | 3063710 | 3086979 |
| Optional ③ DL/SL 16 - B Tap-off Plug L3 (L3, N, PE) | 3063711 | 3086980 |

ATTENTION :

(*) These plugs must be used when the PE protection conductor is selected as a separate conductor from the body.



① DL/SL 16-B L1 Tap-off Plug ② DL/SL 16-B L2 Tap-off Plug ③ DL/SL 16-B L3 Tap-off Plug



- ▶ **Tap-off Plugs with Clips (K)**

| Description | Order Code |
|--|------------|
| ① DL/SL 16 - K Tap-off Plug L1 (L1, N, PE _{Housing}) | 3063699 |
| ② DL/SL 16 - K Tap-off Plug L2 (L2, N, PE _{Housing}) | 3063701 |
| ③ DL/SL 16 - K Tap-off Plug L3 (L3, N, PE _{Housing}) | 3063702 |
| Optional ① DL/SL 16 - K Tap-off Plug L1 (L1, N, PE) | 3063712 |
| Optional ② DL/SL 16 - K Tap-off Plug L2 (L2, N, PE) | 3063715 |
| Optional ③ DL/SL 16 - K Tap-off Plug L3 (L3, N, PE) | 3063716 |

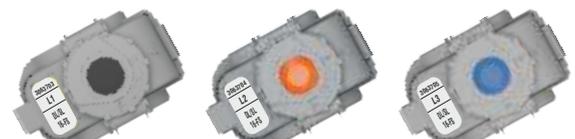


① DL/SL 16-K L1 Tap-off Plug ② DL/SL 16-K L2 Tap-off Plug ③ DL/SL 16-K L3 Tap-off Plug

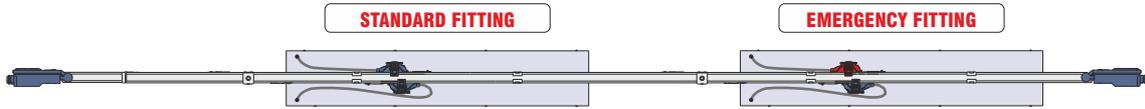
- ▶ **Fuse Holder Tap-off Plugs (FS) (*)**

| Description | Order Code |
|---|------------|
| ① DL/SL 16 - FS Tap-off Plug L1 (L1, N, PE _{Housing}) | 3063703 |
| ② DL/SL 16 - FS Tap-off Plug L2 (L2, N, PE _{Housing}) | 3063704 |
| ③ DL/SL 16 - FS Tap-off Plug L3 (L3, N, PE _{Housing}) | 3063705 |
| Optional ① DL/SL 16 - FS Tap-off Plug L1 (L1, N, PE) | 3063717 |
| Optional ② DL/SL 16 - FS Tap-off Plug L2 (L2, N, PE) | 3063718 |
| Optional ③ DL/SL 16 - FS Tap-off Plug L3 (L3, N, PE) | 3063719 |

* The cylindrical fuse holder is 5x20mm and the fuse is not included.

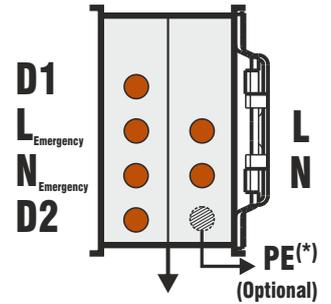


① DL/SL 16-FS L1 Tap-off Plug ② DL/SL 16-FS L2 Tap-off Plug ③ DL/SL 16-FS L3 Güç Fişi



► **Single Phase DALI Busbar**

| Current (A) | Description | Conductor Conf. | Order Code | |
|-------------|-----------------------------------|-----------------|------------|---------|
| | | | (4+2) | (4+3) |
| 25 | DL -2422/2423 - DALI - STD Busbar | 4+2(3) | 3063721 | 3063723 |
| 32 | DL -3432/3433 - DALI - STD Busbar | | 3063817 | 3063818 |
| 40 | DL -4442/4443 - DALI - STD Busbar | | 3063821 | 3063822 |



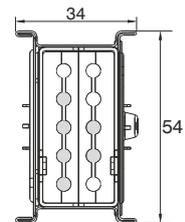
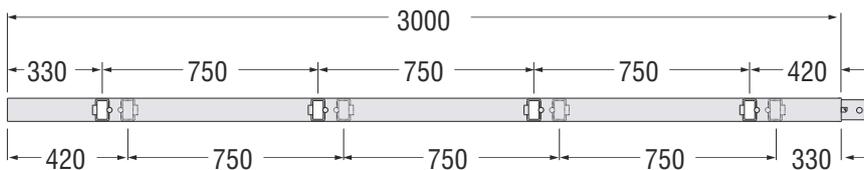
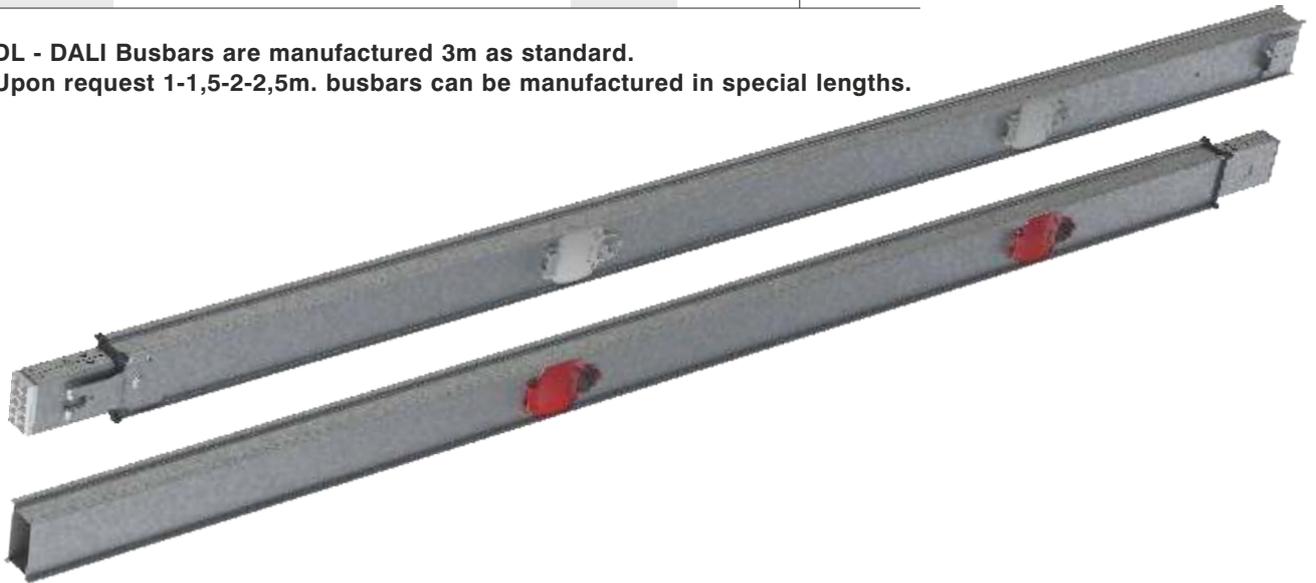
(PE Housing)

(*) Based on requirement "PE" can be manufactured as a separate conductor independent from housing.

► **Single Phase DALI Special Length**

| Current (A) | Description | Conductor Conf. | Order Code | |
|-------------|--|-----------------|------------|---------|
| | | | (4+2) | (4+3) |
| 25 | DL - 2422/2423 - DALI - X Special Length | 4+2(3) | 3063722 | 3063724 |
| 32 | DL - 3432/3433 - DALI - X Special Length | | 3063825 | 3063826 |
| 40 | DL - 4442/3433 - DALI - X Special Length | | 3063829 | 3063831 |

DL - DALI Busbars are manufactured 3m as standard.
Upon request 1-1,5-2-2,5m. busbars can be manufactured in special lengths.



■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

►► Product Selection Tables / Tap-off Plugs (For Single Phase Busbars)

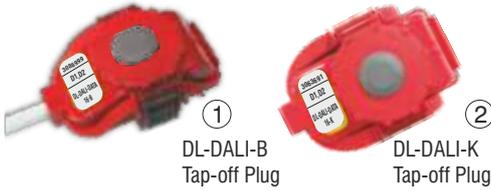
CONTROL (LEFT SIDE)

- **DALI Tap-off Plug (B)**
(Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|--|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL - DALI 16 -B Tap-off Plug (D1, D2) | 3063689 | 3086999 ① |

- **DALI Tap-off Plug (K)(with Clips)**

| Description | Order Code |
|--|------------|
| DL - DALI 16 -K Tap-off Plug (D1, D2) | 3063691 ② |



- **DALI+Emergency Tap-off Plug (B)**
(Cables are of 4x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|---|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DALI+ACK 16 -B Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063693 | 3086998 ① |

- **DALI Emergency Tap-off Plug (K) (with Clips)**

| Description | Order Code |
|---|------------|
| DALI+ACK 16 -K Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063694 ② |

- **DALI Emergency Tap-off Plug(FS) (Fuse Holder)(*)**

| Description | Order Code |
|---|------------|
| DALI+ACK 16-FS Emergency Tap-off Plug(D1, L _{emg} , N _{emg} , D2) | 3063695 ③ |

* The cylindrical fuse holder is 5x20mm and the fuse is not included.



WARNING :

Lighting fittings must be on the same phase as the emergency kit.

MAINS (RIGHT SIDE)

- **DL/SL Tap-off Plugs (B)**
(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|--|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL / SL 16 - B Tap-off Plug (L, N, PE _{Housing}) | 3063698 | 3086975 |
| Optional { DL / SL 16 - B Tap-off Plug (L, N, PE)(*) | 3063711 | 3086980 |

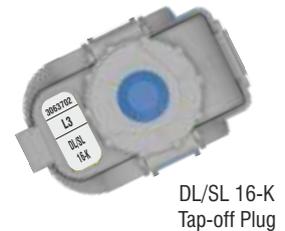
ATTENTION :

(*) These plugs must be used when the PE protection conductor is selected as a separate conductor from the body.



- **Single Phase Tap-off Plugs with Clips(K)**

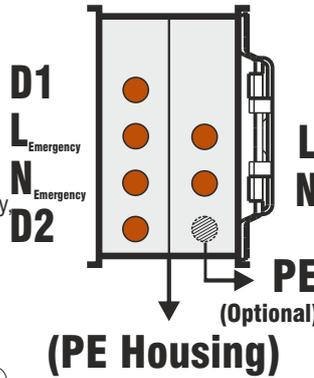
| Description | Order Code |
|--|------------|
| DL / SL 16 - K Tap-off Plug (L, N, PE _{Housing}) | 3063702 |
| Optional { DL / SL 16 - K Tap-off Plug (L, N, PE) | 3063716 |



- **Single Phase Fuse Holder Tap-off Plugs (FS)(*)**

| Description | Order Code |
|---|------------|
| DL / SL 16 - FS Tap-off Plug (L, N, PE _{Housing}) | 3063705 |
| Optional { DL / SL 16 - FS Tap-off Plug (L, N, PE) | 3063719 |

* The cylindrical fuse holder is 5x20mm and the fuse is not included.

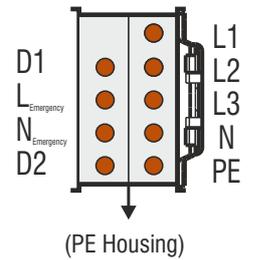
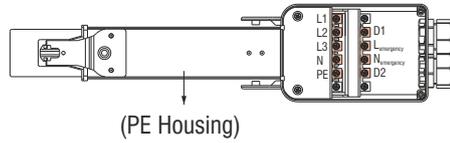
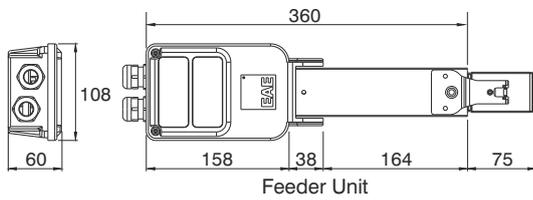


(B1) Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|---|-----------------|------------|
| 25 | DL - 2425 - DALI - B1 Feeder Unit | 4+5 | 3024938 |
| | DL - 2425 - DALI - B1 Feeder Unit (3xM25 Gland) (*) | | 3047853 |
| 32 | DL - 3435 - DALI - B1 Feeder Unit | | 3063832 |
| | DL - 3435 - DALI - B1 Feeder Unit (3xM25 Gland) (*) | | 3063872 |
| 40 | DL - 4445 - DALI - B1 Feeder Unit | | 3056015 |
| | DL - 4445 - DALI - B1 Feeder Unit (3xM25 Gland) (*) | | 3063874 |



* With PE Conductor and M25 Gland as standard.

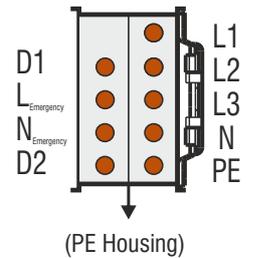
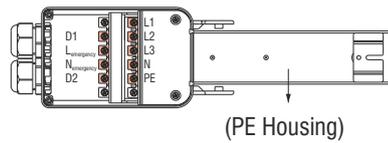
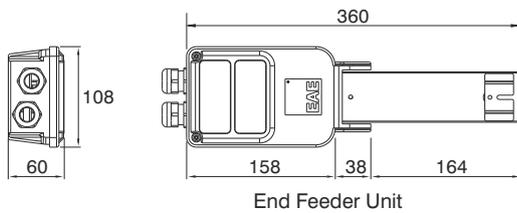


(B2) End Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|---|-----------------|------------|
| 25 | DL - 2524 - DALI - B2 End Feeder Unit | 5+4 | 3024939 |
| | DL - 2524 - DALI - B2 End Feeder Unit (3xM25 Gland) (*) | | 3047854 |
| 32 | DL - 3534 - DALI - B2 End Feeder Unit | | 3063834 |
| | DL - 3534 - DALI - B2 End Feeder Unit (3xM25 Gland) (*) | | 3063873 |
| 40 | DL - 4544 - DALI - B2 End Feeder Unit | | 3056139 |
| | DL - 4544 - DALI - B2 End Feeder Unit (3xM25 Gland) (*) | | 3063875 |



* With PE Conductor and M25 Gland as standard.



ATTENTION :

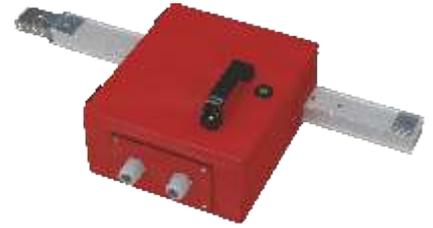
(*) The main supply, DALI and emergency kit (ACK) supply must be selected from the DL-DALI busbar start/end supply units which has 3 (three) union types.

■ Body is manufactured from 0.50 mm galvanised sheet steel.

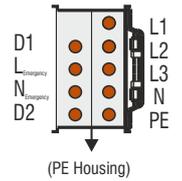
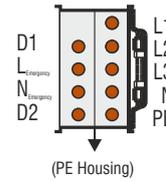
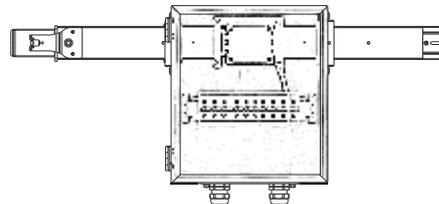
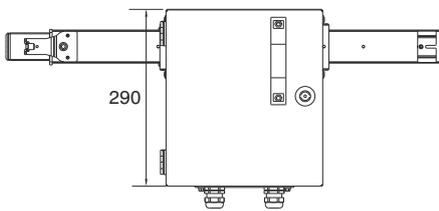
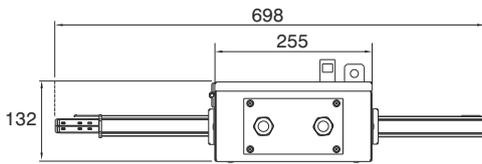
■ For non-standard product, please contact our technical office.

(BO) Central Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|--------------------------------------|-----------------|------------|
| 25 | DL - 2425 - DALI - BO Central Feeder | 4+5 | 3024940 |
| 32 | DL - 3435 - DALI - BO Central Feeder | | 3063835 |
| 40 | DL - 4445 - DALI - BO Central Feeder | | 3063786 |



* With PE Conductor and M25 Gland as standard.

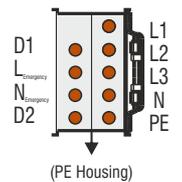
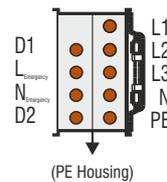
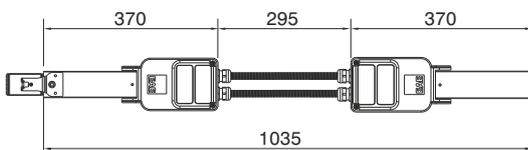


(FD) Flexible Elbow

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|--------------------------------------|-----------------|------------|
| 25 | DL - 2425 - DALI - FD Flexible Elbow | 4+5 | 3024941 |
| 32 | DL - 3435 - DALI - FD Flexible Elbow | | 3063836 |
| 40 | DL - 4445 - DALI - FD Flexible Elbow | | 3063785 |



* With PE Conductor and M25 Gland as standard.



■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

Offices



Plants



DIM Busbar

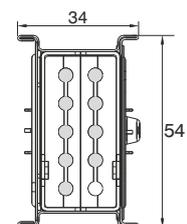
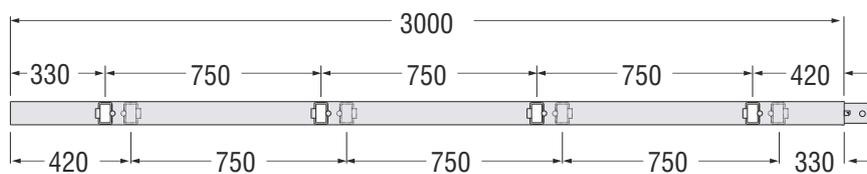
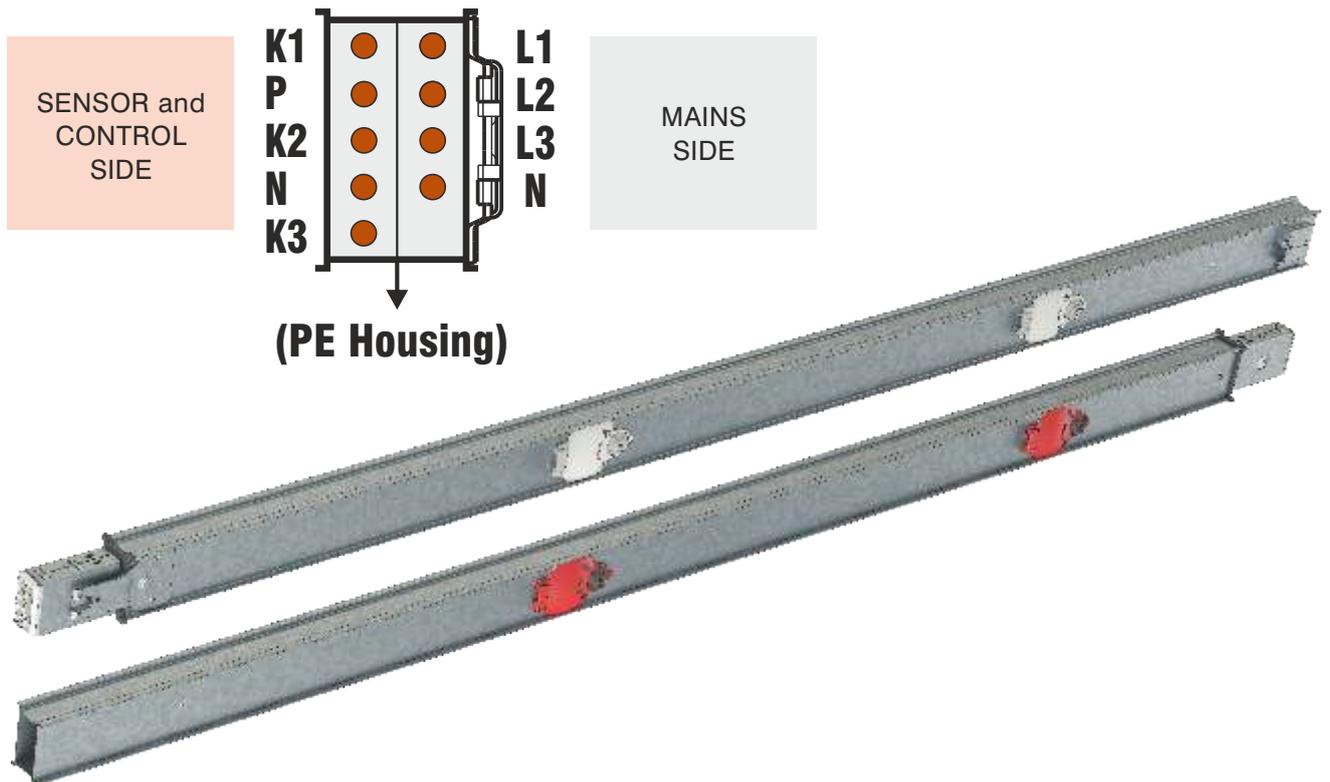
| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|------------------------------|-----------------|------------|
| 25 | DL - 2524 - DIM - STD Busbar | 5+4 | 3048449 |
| 32 | DL - 3534 - DIM - STD Busbar | | 3063859 |
| 40 | DL - 4544 - DIM - STD Busbar | | 3063860 |

DIM Special Length

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|------------------------------------|-----------------|------------|
| 25 | DL - 2524 - DIM - X Special Length | 5+4 | 3048450 |
| 32 | DL - 3534 - DIM - X Special Length | | 3063863 |
| 40 | DL - 4544 - DIM - X Special Length | | 3063864 |

E-Line DL - DIM Busbar; The lighting fittings with corridor function ballast are locally controlled with a max and min of 2 levels of "DIM".

DL - DIM Busbars are manufactured 3m as standard. Upon request 1-1,5-2-2,5m busbars can be manufactured in special lengths.



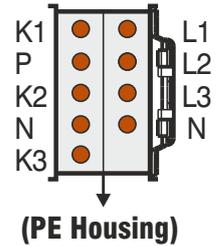
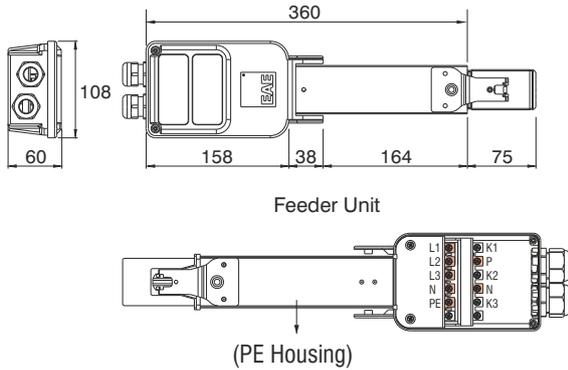
■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

(B1) Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|----------------------------------|-----------------|------------|
| 25 | DL - 2224 - DIM - B1 Feeder Unit | 2+4 | 3048451 |
| 32 | DL - 3234 - DIM - B1 Feeder Unit | | 3063843 |
| 40 | DL - 4244 - DIM - B1 Feeder Unit | | 3063844 |

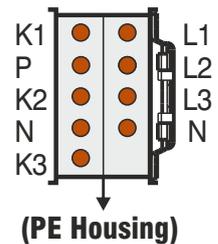
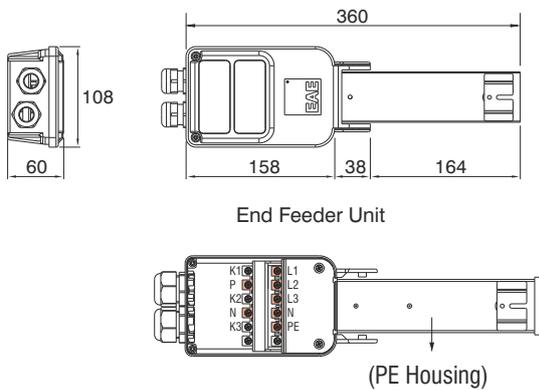
* With PE Conductor and M25 Gland as standard.



(B2) End Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|--------------------------------------|-----------------|------------|
| 25 | DL - 2224 - DIM - B2 End Feeder Unit | 4+2 | 3048452 |
| 32 | DL - 3234 - DIM - B2 End Feeder Unit | | 3063847 |
| 40 | DL - 4244 - DIM - B2 End Feeder Unit | | 3063848 |

* With PE Conductor and M25 Gland as standard.



■ Body is manufactured from 0.50 mm galvanised sheet steel.

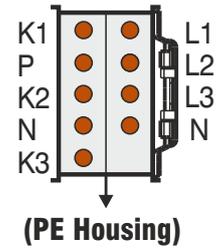
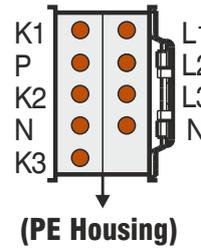
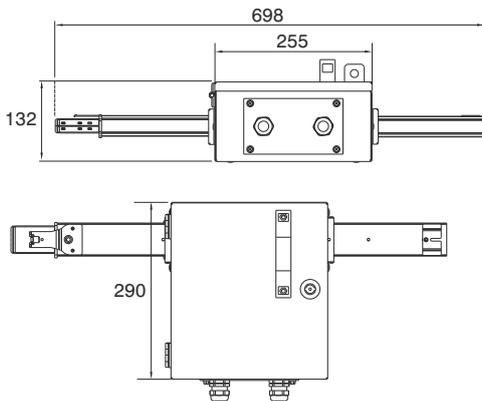
■ For non-standard product, please contact our technical office.

(BO) Central Feeder Units

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------------|-----------------|------------|
| 25 | DL - 2224 - DIM - BO Central Feeder | 5+4 | 3133152 |
| 32 | DL - 3234 - DIM - BO Central Feeder | | 3133154 |
| 40 | DL - 4244 - DIM - BO Central Feeder | | 3133156 |



* With PE Conductor and M25 Gland as standard.

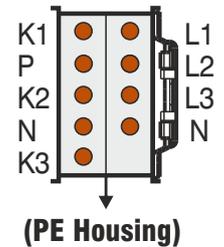
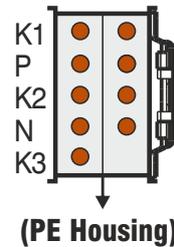
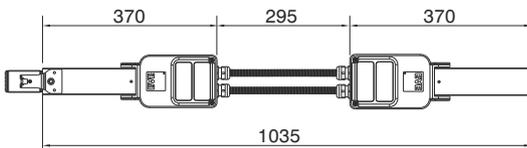


(FD) Flexible Elbow (1)

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------------|-----------------|------------|
| 25 | DL - 2524 - DIM - FD Flexible Elbow | 5+4 | 3048453 |
| 32 | DL - 3534 - DIM - FD Flexible Elbow | | 3063857 |
| 40 | DL - 4544 - DIM - FD Flexible Elbow | | 3063858 |



* With PE Conductor and M25 Gland as standard.

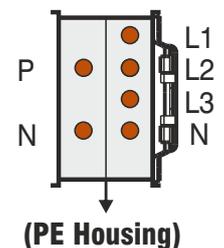
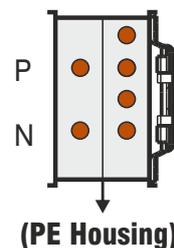
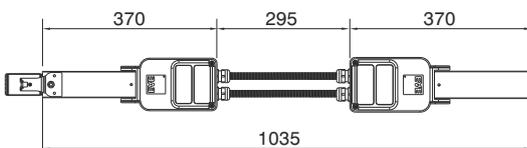


(FD) Flexible Elbow (2)

| Current (A) | Description | Conductor Conf. | Order Code |
|-------------|-------------------------------------|-----------------|------------|
| 25 | DL - 2224 - DIM - FD Flexible Elbow | 2+4 | 3066726 |
| 32 | DL - 3234 - DIM - FD Flexible Elbow | | 3066728 |
| 40 | DL - 4244 - DIM - FD Flexible Elbow | | 3066730 |



* With PE Conductor and M25 Gland as standard.



■ Body is manufactured from 0.50 mm galvanised sheet steel.

■ For non-standard product, please contact our technical office.

CONTROL (LEFT SIDE)

- ▶ **DL-DIM Control Tap-off Plug (B)**
(Cables are of 2x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|------------------------------------|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL - DIM - K1 Tap-off Plug (K1, N) | 3048458 | 3087000 |
| DL - DIM - K2 Tap-off Plug (K2, N) | 3048459 | 3087002 |
| DL - DIM - K3 Tap-off Plug (K3, N) | 3048460 | 3087004 |



- ▶ **DL-DIM Sensor Control Tap-off Plug (B)**
(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

| Description | Order Code | |
|---------------------------------------|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL - DIM - S1 Tap-off Plug (K1, P, N) | 3048455 | 3087006 |
| DL - DIM - S2 Tap-off Plug (K2, P, N) | 3048456 | 3087007 |
| DL - DIM - S3 Tap-off Plug (K3, P, N) | 3048457 | 3087008 |



- ▶ **DL-DIM+Emergency Control Tap-off Plug (B)**
(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

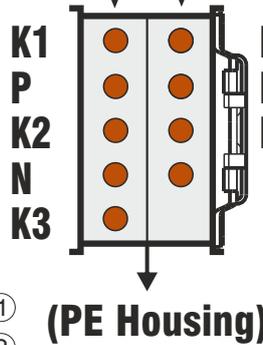
| Description | Order Code | |
|---|--------------|----------------|
| | Halogen Free | Standard (PVC) |
| DL - DIM - K1 - ACK Tap-off Plug (K1, P, N) | 3048461 | 3087001 |
| DL - DIM - K2 - ACK Tap-off Plug (K2, P, N) | 3048462 | 3087003 |
| DL - DIM - K3 - ACK Tap-off Plug (K3, P, N) | 3048463 | 3087005 |



MAINS (RIGHT SIDE)

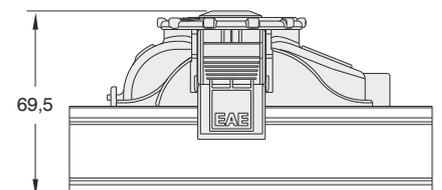
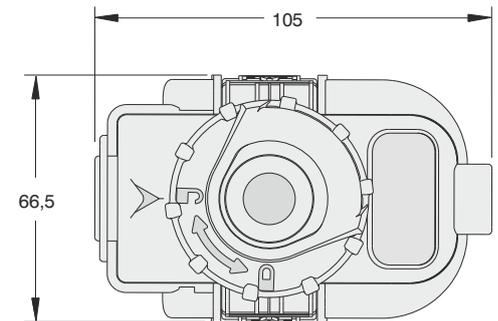
- ▶ **DL / SL Tap-off Plugs (B)**
(Cables are of 3x1.5 mm² 052XZ1-F type, and manufactured with a standard length of 0,75m. Optionally, they may be manufactured with the desired length.)

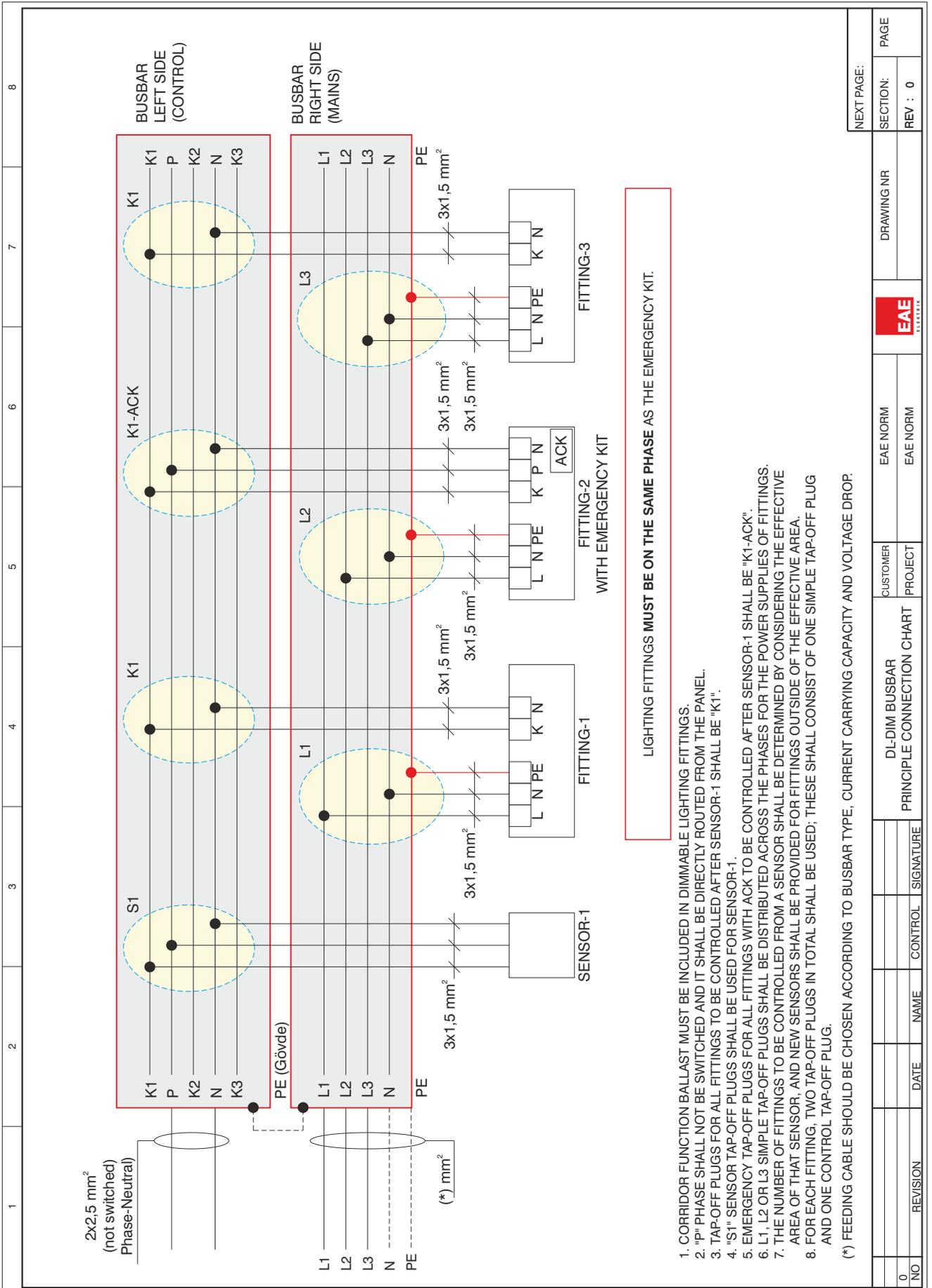
| Description | Order Code | |
|--|--------------|----------------|
| | Halogen Free | Standart (PVC) |
| DL / SL 16 - B Tap-off Plug L1 (L1, N, PE) | 3063696 | 3086972 |
| DL / SL 16 - B Tap-off Plug L2 (L2, N, PE) | 3063697 | 3086974 |
| DL / SL 16 - B Tap-off Plug L3 (L3, N, PE) | 3063698 | 3086975 |



WARNING :

Lighting fittings must be on the same phase as the emergency kit.





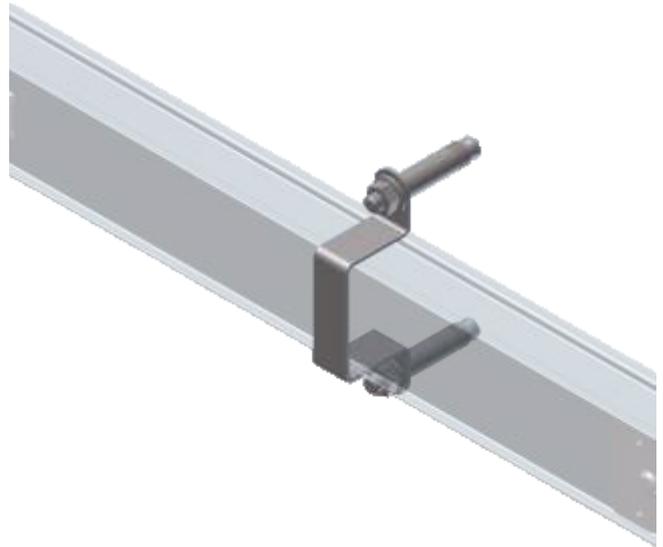
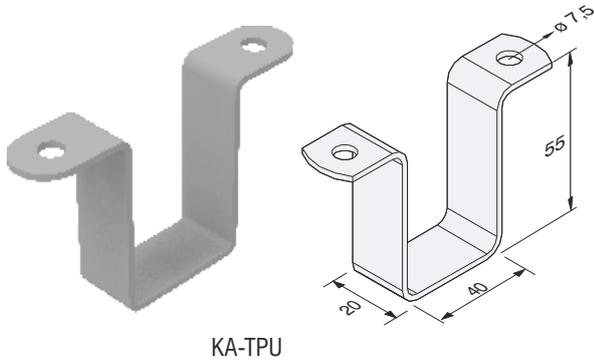
| Component List | Component | Quantity |
|--|-----------|--|
| Item | | |
| Company : Project : Project No : | | Prepared by Name : Date : Signature : |



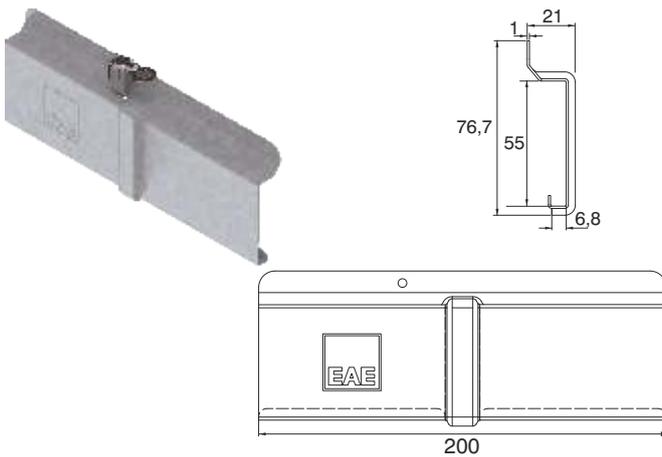
Please duplicate this page for your own use.

NOTE: All specified accessories; DL, DL-DALI, DL-DIM is valid for all busbar models.

| Description | Order Code |
|--------------------------------|------------|
| KA - TPU Fitting U - Unpainted | 3025158 |
| KA - TPU Fitting U - Painted | 3025159 |



| Description | Order Code |
|-------------------------------|------------|
| DL / SL Joint Cover-Unpainted | 1015520 |
| DL / SL Joint Cover-Painted | 2054580 |

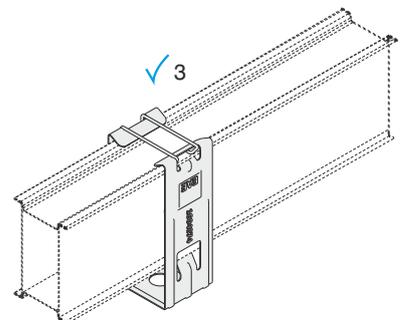
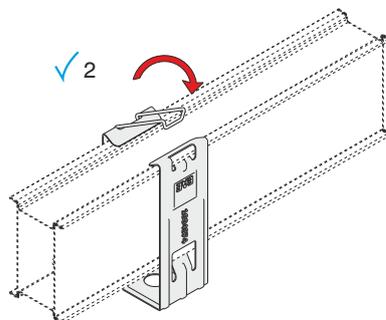
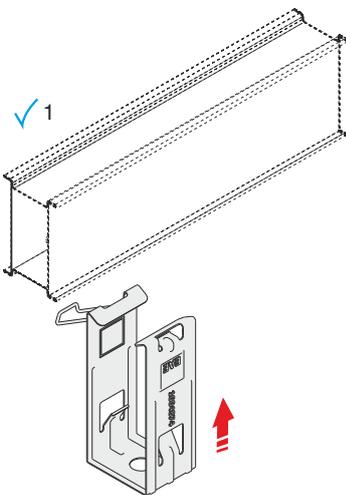
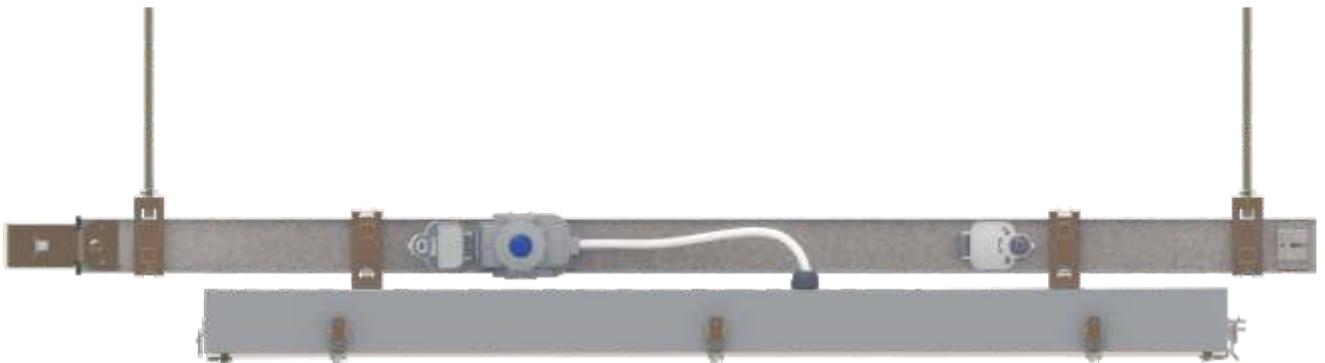
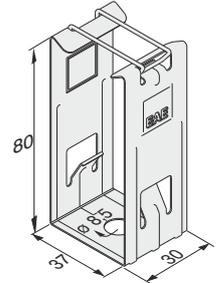


ATTENTION:

The joint cover must be attached to the screwless side of the busbar.

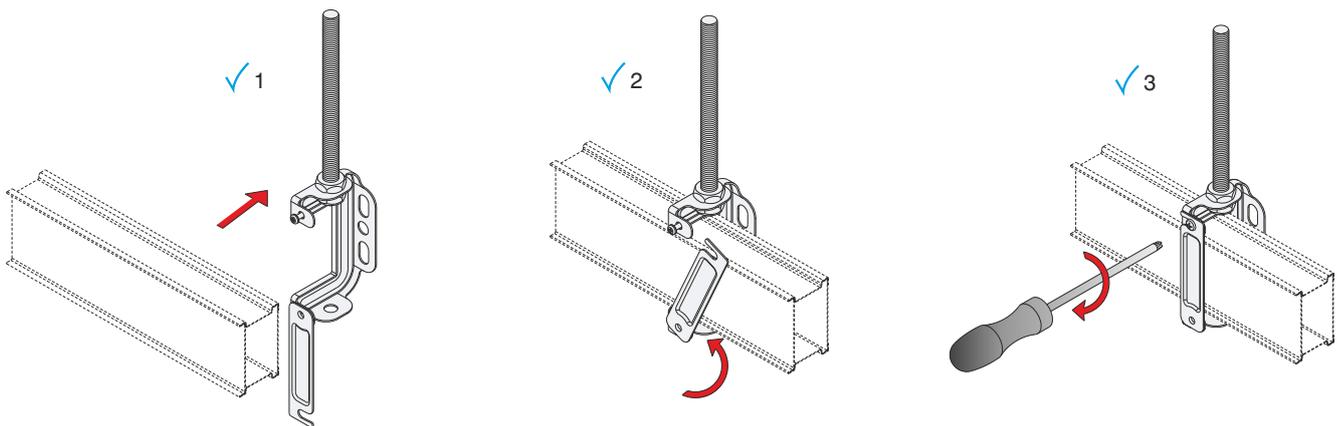
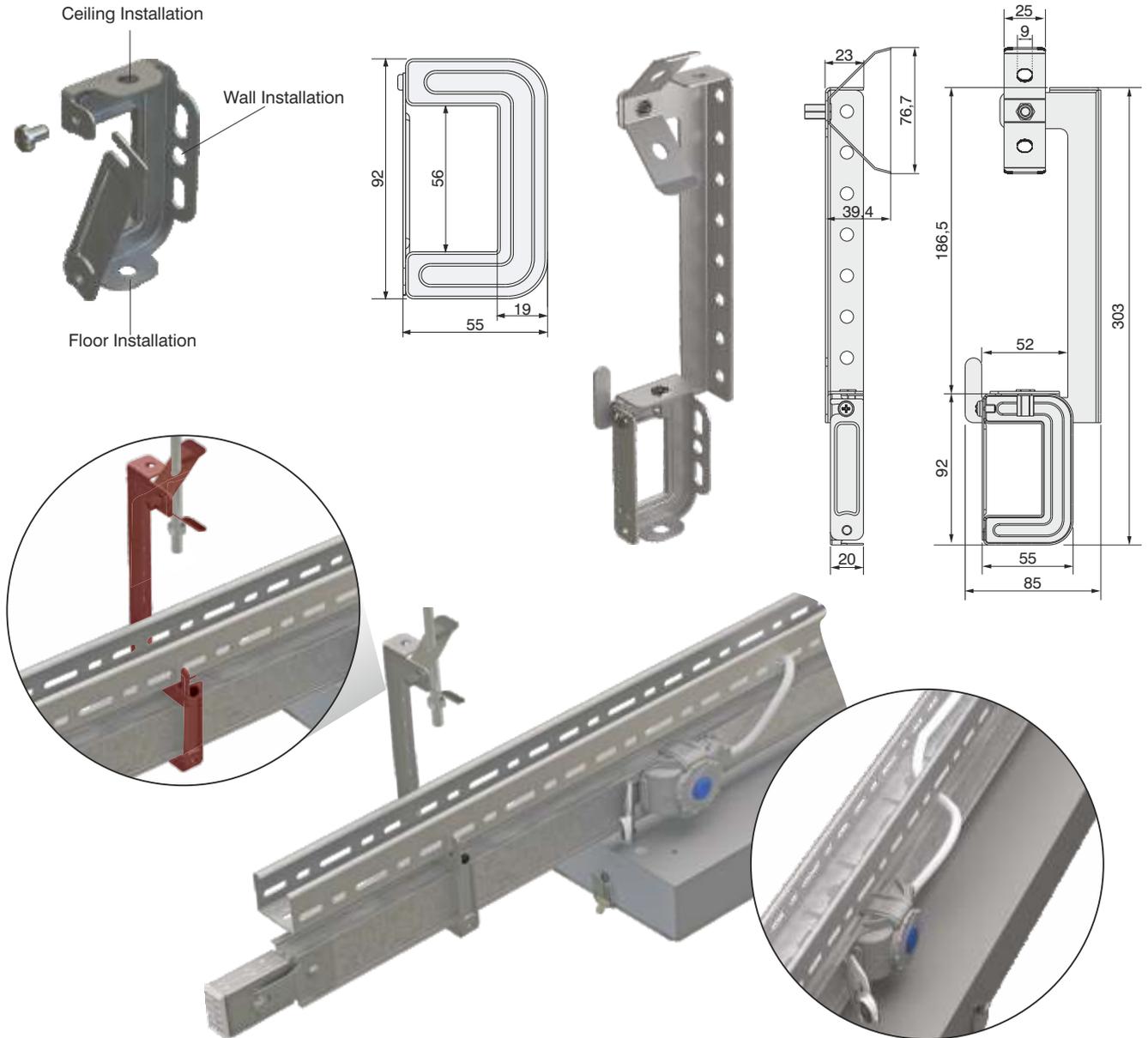


| Description | Order Code |
|-----------------------|------------|
| U-Bracket - Unpainted | 1004874 |
| U-Bracket - Painted | 2037294 |



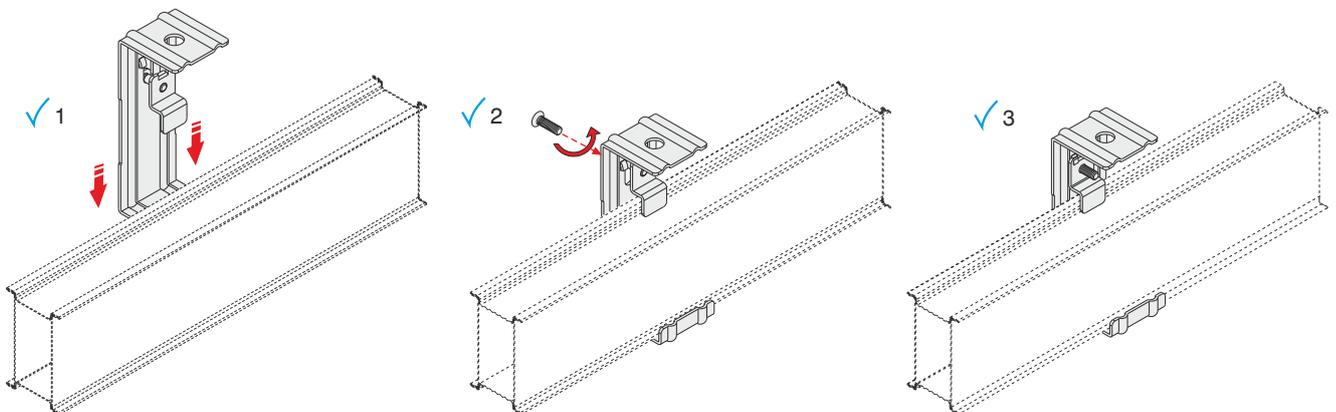
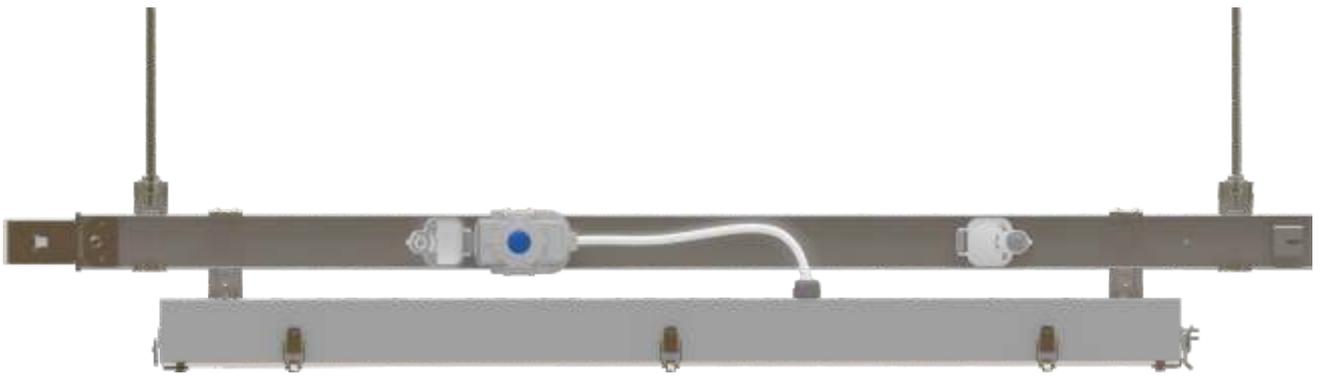
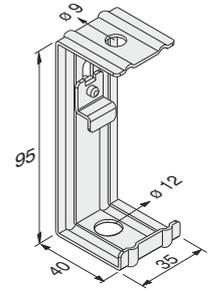
| Description | Order Code |
|---------------------------------------|------------|
| Universal Fitting Bracket - Unpainted | 1004189 |
| Universal Fitting Bracket - Painted | 2033519 |

| Description | Order Code |
|---|------------|
| DL/SL Multifunctional Bracket - Unpainted | 3122646 |
| DL/SL Multifunctional Bracket - Painted | 3122647 |



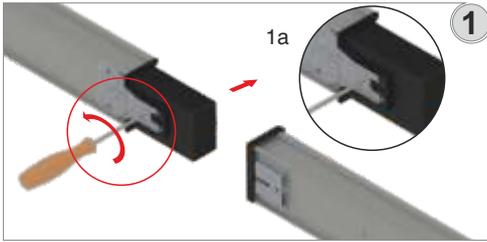


| Description | Order Code |
|-----------------------|------------|
| L-Bracket - Unpainted | 1004283 |
| L-Bracket - Painted | 2037295 |

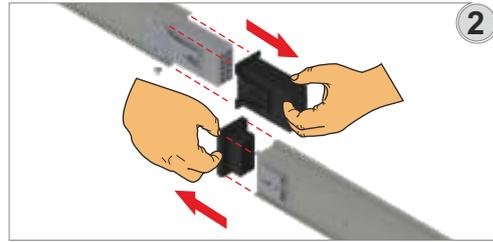


►► Busbar Joint Installation

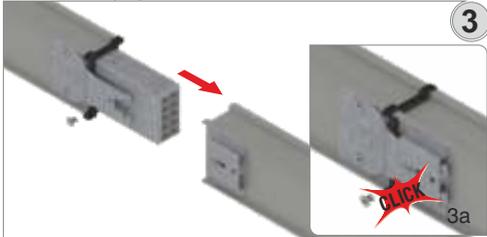
► DL Busbar Joint Installation



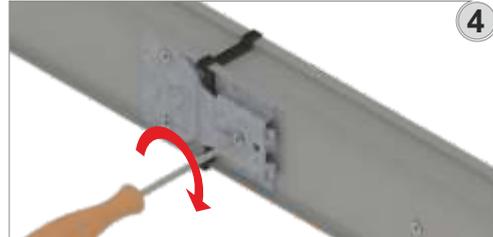
Detach the protective plastic from both ends of the busbar. (1a)



Remove the plastic protective covers from the system as shown in the figure.



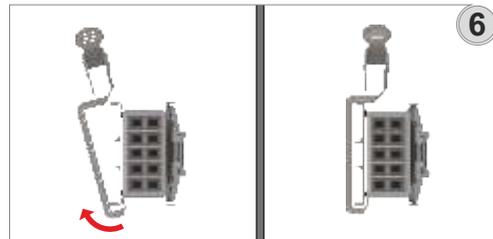
Connect the male side of the busbar with the female side of the other busbar. Make sure that you hear the locking sound for correct connection. (3a)



Tightening the joint screw.

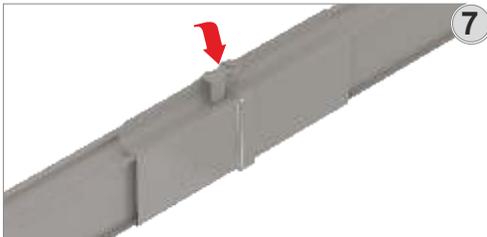


Install the joint cover to the screwless side.



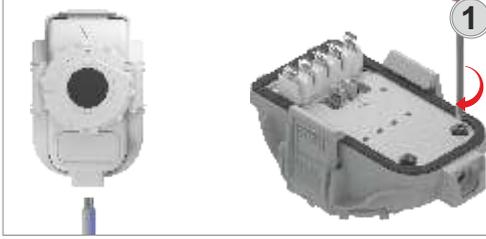
Make sure that the joint cover structure fully grips the busbars.

(Caution: The joint cover must be attached to the screwless side of the busbar.)

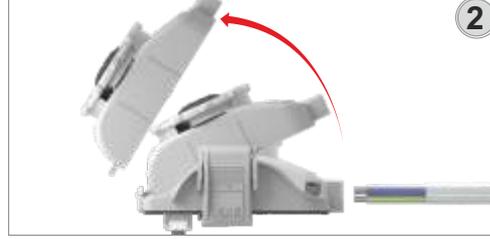


By closing the snap-in latch, you may complete the snap-in connection.

▶ Tap-off Plugs with clips/Cylindrical Fuse Installation



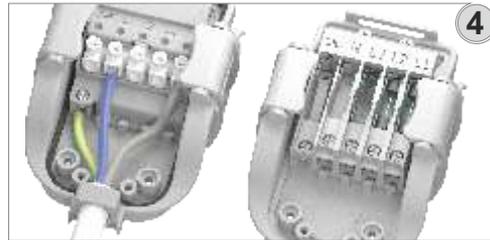
Use 052XZ1-F type cable, (3x1,5mm² for single phase, 5x1,5mm² for three phase) as required. Turn over the plug and remove the two screws.



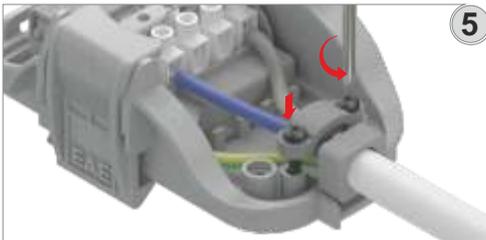
Remove the cover by pressing the lug with EAE logo as shown in figure.



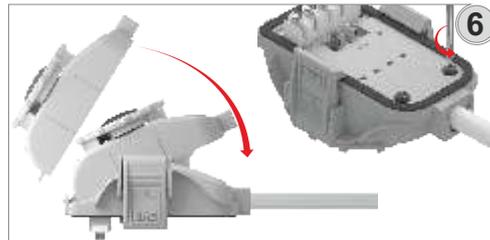
Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



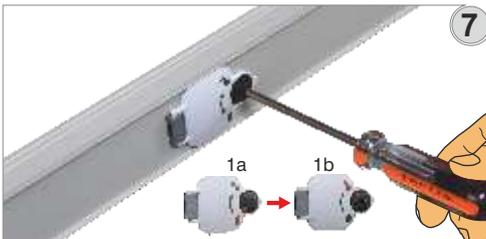
Connect the yellow green cable to the earth terminal, blue cable to "N" terminal and phase cables to related terminals of plug.



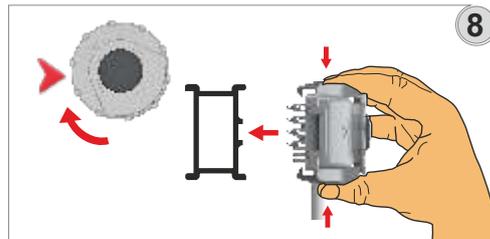
Refit the plastic cable grip.



Replace the cover and turn over the plug and tighten the screws.



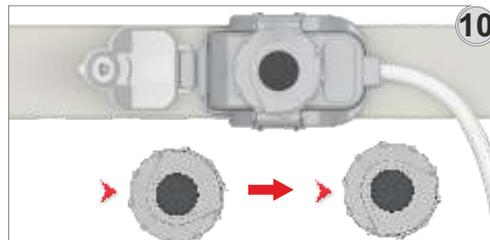
Put the plug in cover into open (☒) position.



Put the lock mechanism of plug into open (☒) position.

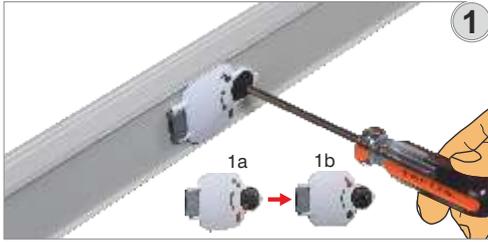


Direction of contacts should be as shown figure.

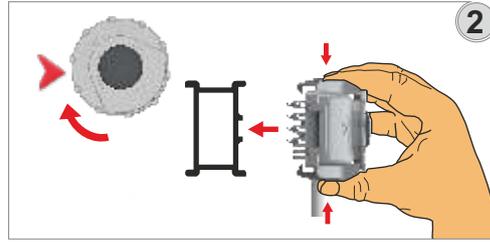


After connecting plug to busbar, put the lock mechanism of plug into close (☑) position.

▶ Tap-off Plug Fixing



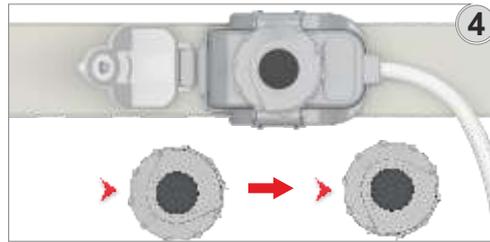
Turn the locking button on the busbar to OPEN (🔓) position.



Put the lock mechanism of plug into open (🔓) position.



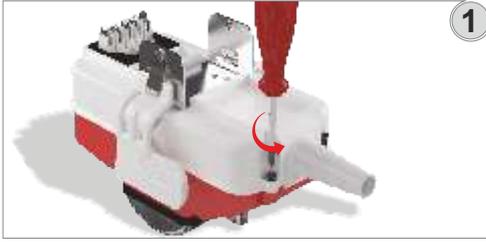
Direction of contacts should be as shown figure.



After fixing the plug to the busbar properly, turn the locking knob to LOCK (🔒) position.

▶▶ Tap-off Box Installation

▶ Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



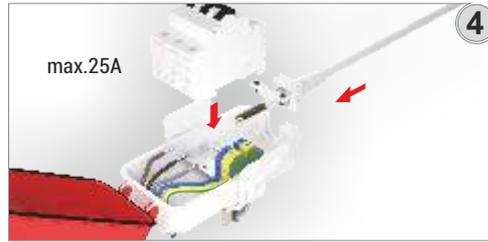
Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



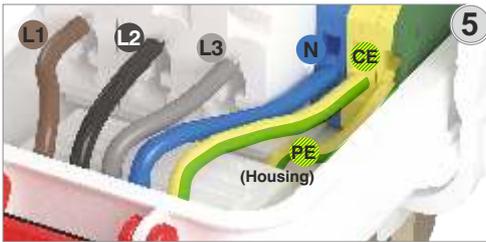
Open the cover of tap-off box.



Remove the plastic cable grip. Pass the cable through the gland which maintains the IP rating.



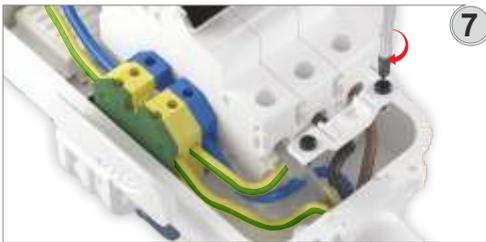
Install the MCB with a maximum of 25A to the DIN rail. (MCB should be "OFF" position.)



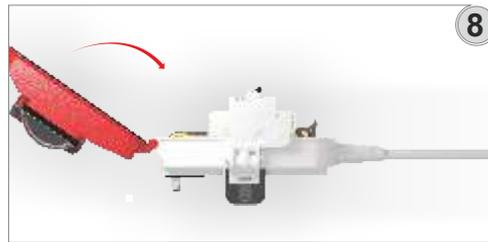
Connect the wiring at fuse entry terminal according to the colour combination as shown in the image. Make sure that the screws are tight.



Install the feeder cable at the fuse outlet terminal in the same way. Make sure that the screws are tight.



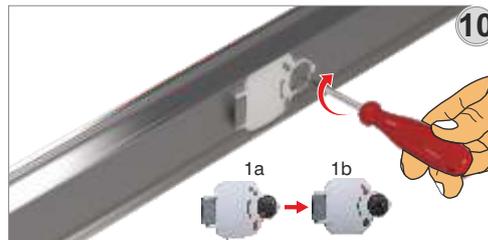
Refit the plastic cable grip.



Close the cover of tap-off box.



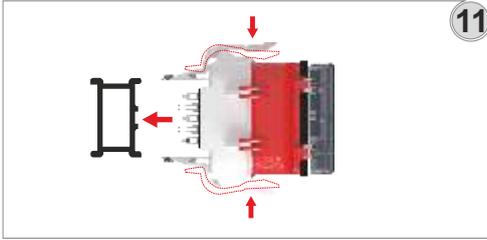
Turn over the tap-off box and tighten the screws. Make sure that the screws are tight.



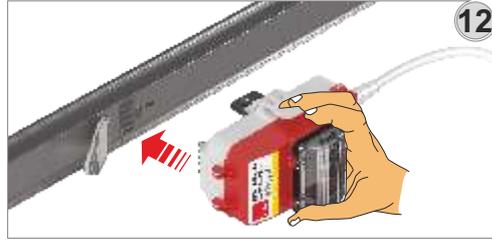
Put the plug in cover into open (☐) position.

▶▶ Tap-off Box Installation

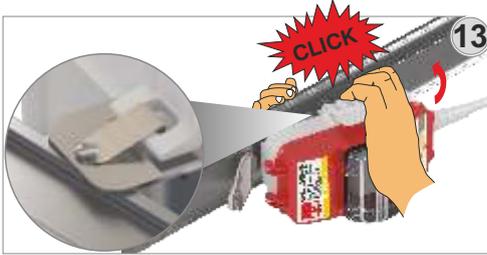
▶ Mounting Tap-off Box with Miniature Circuit Breaker (MCB)



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



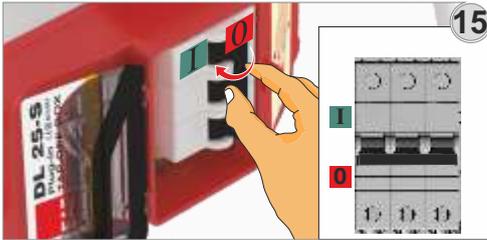
Direction at the tap-off box should be as shown in figure.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.



Open the transparent cover of the tap-off box by untightening the screw.



Put " Miniature Circuit Breaker (MCB) "ON" position.



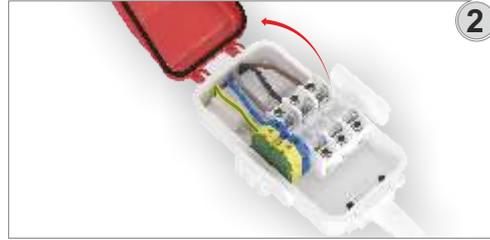
Close the transparent cover of the tap-off box by screwing.

▶▶ Tap-off Box Installation

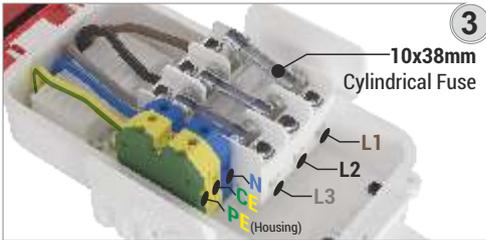
▶ Mounting Tap-off Box with Cylindrical Fuse



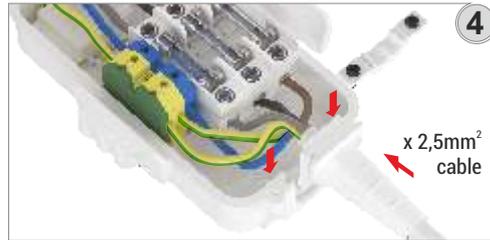
Use 052XZ1-F type cable, (3x2,5mm² for single phase, 5x2,5mm² for three phase) as required. Turn over the tap-off box and remove the two screws.



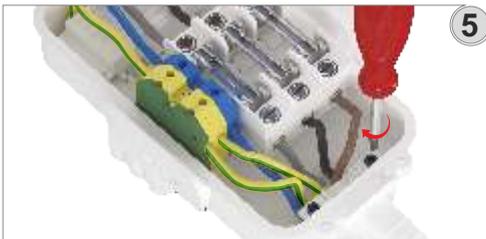
Open the cover of tap-off box.



Install 10x38mm cylindrical fuse with maximum of 16A to fuse holder.



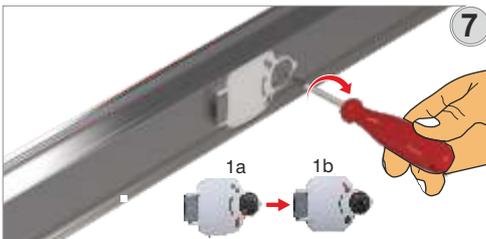
Connect feeder cables as shown above.



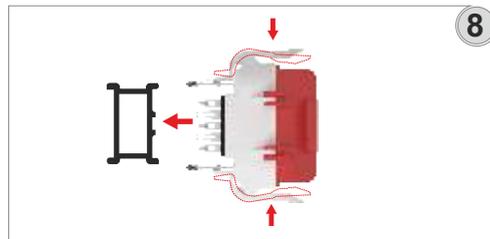
Fit the plastic component that organizes the cables and holds them together.



After closing the tap-off box cover, turn the tap-off box upside down and tighten the screws.



Put the plug-in cover to (1b) position.



Align tap-off box with busbar plug-in while squeezing the ears on the sides of tap-off boxes.



Direction at the tap-off box should be as shown in figure.



First, connect product earth terminal to busbar plug-in point. Then make sure that other terminals connect to busbar. Finally you should hear "CLICK" sound when you press tap-off box towards busbar.



Make sure that tap-off box is locked.

DL / DL-DALI / DL-DIM

| Rated Current | I_n | A | 25 | 32 | 40 |
|--|--------------------------------|---------------------|-----------|-----------|-----------|
| Busbar Code | | | 24 | 35 | 45 |
| Main Standards | IEC 61439-1/6, TS EN 61439-1/6 | | | | |
| Rated Isolation Voltage | U_i | V | 690 | 690 | 690 |
| Rated Frequency | f | Hz | 50 | 50 | 50 |
| Protection Degree | IP55 | | | | |
| External Mechanical Impacts (IK Code)* | IK07 | | | | |
| Rated Short-time Withstand Current (0,1s) | I_{cw} | kA _(rms) | 2,5 | 3 | 4 |
| Rated Peak Withstand Current | I_{pk} | kA | 4 | 5 | 6,5 |
| MEAN PHASE CONDUCTOR CHARACTERISTICS AT RATED CURRENT I_n | | | | | |
| Resistance at a conductor temperature of 20 °C | R_{20} | mW/m | 5,745 | 4,400 | 2,938 |
| Resistance at an ambient air temperature of 35 °C | R | mW/m | 7,174 | 5,566 | 3,751 |
| Reactance (Independent from Temperature) | X | mW/m | 1,338 | 0,327 | 0,486 |
| Positive and negative sequence impedances at an ambient air temperature of 35 °C | Z | mW/m | 7,298 | 5,575 | 3,783 |
| Positive and negative sequence impedances at a conductor temperature of 20 °C | Z_{20} | mW/m | 5,898 | 4,412 | 2,978 |
| Rated Power Loss at 35 °C | | W/m | 15,6 | 17,0 | 18,7 |
| DC Resistance at a conductor temperature of 20 °C for Phases | R_{ortPh} | mW/m | 5,581 | 4,320 | 3,035 |
| DC Resistance at a conductor temperature of 20 °C for Neutral | R_N | mW/m | 5,603 | 4,296 | 2,985 |
| DC Resistance at a conductor temperature of 20 °C for PE | R_{PE} | mW/m | 3,09 | 3,09 | 3,09 |
| DC Resistance at a conductor temperature of 20 °C for CE | R_{CPE} | mW/m | 5,633 | 4,335 | 3,015 |
| SECTIONS | | | | | |
| L1,L2,L3,N | | mm ² | 2,54 | 3,98 | 6,16 |
| CE (5 Conductors - Optional "PE" for DL-DALI) | | mm ² | 2,54 | 3,98 | 6,16 |
| PE (Sheet Steel) | | mm ² | 105 | 105 | 105 |
| PE (Cu Equivalent-Sheet Steel) | | mm ² | 5,8 | 5,8 | 5,8 |
| Busbar Weight (4 Conductors) | | kg/m | 1,400 | 1,430 | 1,600 |
| Busbar Weight (5 Conductors) | | kg/m | 1,500 | 1,550 | 1,720 |

25-32-40A PLUG-IN BUSBAR SYSTEMS PRODUCT SPECIFICATION (E-Line DL)

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- The rated insulation voltage of the system shall be 690V.
- 3- The busbar system shall have current ratings between 25A-32A-40A, Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 4- The conductors in the housing shall be insulated along their whole length and only stripped at the plug-in points to create the contact area.
- 5- The busbar shall have a total of 8 tap-off points (4 on each side) on a standard 3m length. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 6- The DL Busbar System is double sided with a maximum of five independent conductors on each side. The number of conductors and the phase structure alternatives are as follows.
 - a) 2 Conductors; L1 / N / PE (Housing)
 - b) 3 Conductors; L1 / N / CE + PE (Housing)
 - c) 4 Conductors; L1 / L2 / L3 / N / PE (Housing)
 - d) 5 Conductors; L1 / L2 / L3 / N / CE + PE (Housing)
 - Phase and Neutral conductor sections ;
 - for 25A ; **2,54** mm²
 - for 32A ; **3,98** mm²
 - for 40A ; It is produced as **6,16** mm².
 - PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
 - CE (Clean Earth); Clean Earth is a separate and independent conductor, the cross-sectional area is equivalent to the phase conductors.

The conductors and numbers mentioned above are valid for each side, and the DL Busbar system can be produced in different structures for both sides, depending on demand and supply.
- 7- There shall be insulator supports at the plug-in points.
- 8- The joint of the busbar shall be a push-fit joint. Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 9- The IP rating of the busbar shall be IP55.
- 10- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 11- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 12- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.

DALI APPLIED LIGHTING BUSBAR SYSTEM GENERAL PRODUCT SPECIFICATIONS (E-Line DL-DALI)

Dali applied lighting busbar system ;

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- Devices to be connected shall be manufactured as per IEC 62386.
- 3- Tap-off plugs shall have physical measures to prevent incorrect connection and shall be manufactured so that no voltage will be present on the 'DALI' line due to the conductor configuration even if connected incorrectly.
- 4- The rated insulation voltage of the system shall be 690V.
- 5- The conductors have a current carrying capacity of at least 25 A and are tin-plated copper.
- 6- The conductors in the housing shall be insulated along their whole length and only stripped at the plug-in points to create the contact area.
- 7- The busbar system shall offer the following phase configuration options:
 - a) 9 conductors : L1 / L2 / L3 / N / CE + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Three Phase+ Clean Earth"
 - b) 8 conductors : L1 / L2 / L3 / N + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Three Phase"
 - c) 7 conductors : L / N / CE + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Single Phase + Clean Earth"
 - d) 6 conductors : L / N + PE (Housing) and D1 / L(emg.) / N(emg.) / D2 "Single Phase"
- Phase and Neutral conductor sections ;
 - for 25A ; **2,54** mm²
 - for 32A ; **3,98** mm²
 - for 40A ; It is produced as **6,16** mm².
- PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- 8- On a standard 3m length the busbar shall have a total of 4 tap-off points on each side, one side for the luminaire power supply and the other side for the DALI ballast and emergency kit control. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 9- There shall be insulator supports at the plug-in points.
- 10- The tap-off covers for the luminaire supplies and the Dim Control tap-offs shall be of different colours and labelled to indicate which phase each is supplied from.
- 11- Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 12- The joint points of the main body are manufactured with snap-on, screw-on and capped construction.
- 13- Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 14- The tap-off points shall have protective covers to maintain the IP55 rating.
- 15- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 16- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 17- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.

DIM APPLIED LIGHTING BUSBAR SYSTEM GENERAL PRODUCT SPECIFICATIONS (E-Line DL-DIM)

Dim applied lighting busbar system ;

- 1- The busbar systems shall be type tested and certified according to IEC 61439-6 by international laboratories. They shall be manufactured in an ISO 9001 and ISO 14001 certified facility.
- 2- Tap-off plugs shall have physical measures to prevent incorrect connection and shall be manufactured so that no voltage will be present on the 'Dim Control' line due to the conductor configuration even if connected incorrectly.
- 3- The rated insulation voltage of the system shall be 690V.
- 4- The conductors have a current carrying capacity of at least 25 A and are tin-plated copper.
- 5- The conductors in the housing shall be insulated along their whole length and only stripped at the plug-in points to create the contact area.
- 6- The nine conductors shall be manufactured as one side L1/L2/L3/N+PE (Housing) and the other side as K1/P/K2/N/K3 " Three Phase".
 - Phase and Neutral conductor sections ;
 - for 25A ; **2,54** mm²
 - for 32A ; **3,98** mm²
 - for 40A ; It is produced as **6,16** mm².
 - PE (Housing); The body is used as an earth conductor and the equivalent copper cross-sectional area is 5,8 mm².
- 7- On a standard 3m length the busbar shall have a total of 4 tap-off points on each side, one side for the luminaire supply and the other side for the Dim and emergency kit. The system should have the possibility to increase the number of tap-off points at the time of ordering. The tap-off points shall have protective covers to maintain the IP55 rating.
- 8- There shall be insulator supports at the plug-in points.
- 9- The tap-off covers for the luminaire supplies and the Dim Control shall be of different colours and labelled to indicate which phase each is supplied from.
- 10- Conductors shall be electrolytic copper and continuously tin plated along their entire length.
- 11- The joint of the busbar shall be a push-fit joint.
- 12- Joint contacts shall be silver plated. To ensure a secure joint contact there shall be springs on both sides of the joint.
- 13- The tap-off points shall have protective covers to maintain the IP55 rating.
- 14- The housing of the busbar shall be manufactured from 0.50mm thick galvanised sheet steel with an option for a RAL 7038 electrostatic oven dried paint finish.
- 15- The contacts on the tap-off plugs shall be silver plated jawed construction which contact the conductors on both sides.
- 16- Standard brackets and fittings suitable for the housing of the busbar shall be those produced by the busbar manufacturer.

CE DECLARATION OF CONFORMITY

Product Group E-Line DL Busbar Systems
E-Line DL - DALI Busbar Systems
E-Line DL - DIM Busbar Systems

Manufacturer EAE Elektrik Asansor End. Insaat San. ve Tic. A.S.
Akçaburgaz Mahallesi, 3114. Sokak,
No:10 34522 Esenyurt-Istanbul

The objects of the declaration described below is in conformity with the relevant Union harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Standard :**EN 61439-6**

Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems

CE - Directive

2014/35/EU "The Low Voltage Directive"

2014/30/EU "Electromagnetic Compatibility (EMC) Directive"

2011/65/EU "Restriction of the use of certain hazardous substances (RoHS)"

Technical Document Preparation Official:

EAE Elektrik Asansör End. İnşaat San. ve Tic. A.Ş.
Akçaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

Emre GÜRLEYEN

Date

08.03.2021

Document Authorized Signatory

Elif Gamze KAYA OK
Deputy General Manager





TEST CERTIFICATE

| | |
|------------------|--|
| Issued to: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / Istanbul Turkey |
| For the product: | Low-voltage busbar trunking system |
| Trade name: | EAE |
| Type/Model: | DL 02 |
| Ratings: | I_{nc} 25 A at 50 Hz, U_i 690 V, U_{imp} 6 kV, I_{cw} 2,5 kA - 0,1 s For more details see annex |
| Manufactured by: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / Istanbul Turkey |
| Subject: | Design verification |
| Requirements: | IEC 61439-6: 2012 Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and Annex BB, CC, and DD |
| Remarks: | Busbar trunking system consists of feeder box, joint and straight lengths |

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.01-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015

Number: 2172392.100

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396



TEST CERTIFICATE

| | |
|------------------|--|
| Issued to: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / İstanbul Turkey |
| For the product: | Low-voltage busbar trunking system |
| Trade name: | EAE |
| Type/Model: | DL 03 |
| Ratings: | I_{nc} 32 A at 50 Hz, U_i 690 V, U_{imp} 6 kV, I_{cw} 3 kA - 0,1 s For more details see annex |
| Manufactured by: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / İstanbul Turkey |
| Subject: | Design verification |
| Requirements: | IEC 61439-6: 2012 Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and Annex BB, CC, and DD |
| Remarks: | Busbar trunking system consists of feeder box, joint and straight lengths |

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.02-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 4 May 2015

Number: 2172392.101

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

DEKRA Certification B.V. Meander 1051, 6825 MJ Amhem P.O. Box 5185, 6802 ED Amhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396



TEST CERTIFICATE

| | |
|------------------|--|
| Issued to: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / Istanbul Turkey |
| For the product: | Low-voltage busbar trunking system |
| Trade name: | EAE |
| Type/Model: | DL 04 |
| Ratings: | I_{nc} 40 A at 50 Hz, U_i 690 V, U_{imp} 6 kV, I_{cw} 4 kA - 0,1 s For more details see annex |
| Manufactured by: | EAE Elektrik Asansör End. Insaat San. ve Tic. A.S. Akçaburgaz Mahallesi 119, Sokak No: 10 34510 Esenyurt / Istanbul Turkey |
| Subject: | Design verification |
| Requirements: | IEC 61439-6: 2012 Clauses: 10.2, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, 10.101 and Annex BB, CC, and DD |
| Remarks: | Busbar trunking system consists of feeder box, joint and straight lengths |

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2172392.03-INC, dated 4 May 2015.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 4 May 2015

Number: 2172392.102

DEKRA Certification B.V.


F.S. Strikwerda
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396

| Component List | Component | Quantity |
|--|-----------|--|
| Item | | |
| Company : Project : Project No : | | Prepared by Name : Date : Signature : |



Please duplicate this page for your own use.

| Component List | Component | Quantity |
|--|-----------|--|
| Item | | |
| Company : Project : Project No : | | Prepared by Name : Date : Signature : |



Please duplicate this page for your own use.

| Component List | Component | Quantity |
|--|-----------|--|
| Item | | |
| Company : Project : Project No : | | Prepared by Name : Date : Signature : |



Please duplicate this page for your own use.

PRODUCT TYPES



BUSBAR ENERGY DISTRIBUTION SYSTEMS



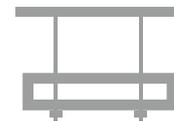
CABLE TRAYS



TROLLEY BUSBAR ENERGY DISTRIBUTION SYSTEMS



INDOOR SOLUTIONS



SUPPORT SYSTEMS

Please visit our website for the updated version of our catalogues.
www.eae.com.tr



EAE Elektrik A.Ş.
Akcaburgaz Mahallesi,
3114. Sokak, No:10 34522
Esenyurt-Istanbul-TURKEY
Tel: +90 (212) 866 20 00
Fax: +90 (212) 886 24 20

Please visit our website for the updated version of our catalogues.
www.eaeelectric.com



Catalogue 07-Eng. / Rev 09 0000 pcs. 23/11/2021
D.S.

EAE has full right to make any revisions or changes on this catalogue without any prior notice.

