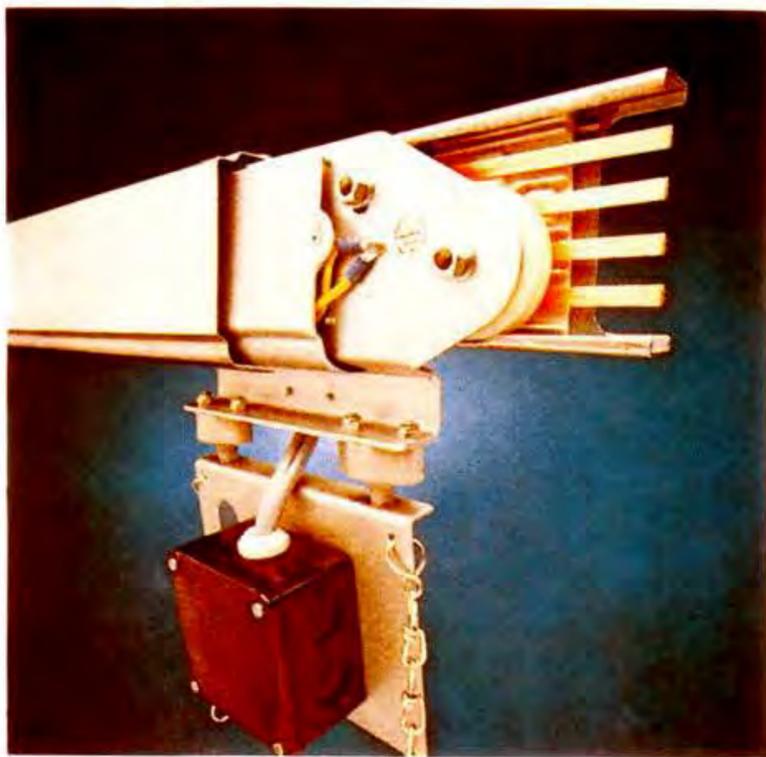


# The power conductor



## The metal enclosed conductor system

The sheet metal conductor system is a well proven product, it may be used in a large range of application, because of its mechanical strength and its thermal resistance to temperature change (min 40°C to plus 130°C).

The system can house upto 18 conductors in one plane and a capacity rating of 60, 100, 140 and 200 amps. Two types available one for indoor use and the other a weatherproof system for outdoor use. Both types are to VDE and SEV requirements.

NOVA Limited



# The metal enclosed conductor system SG

## Applications for use

The number of pole and amperage ratings must first be determined. The standard size made is 3, 4, 5 and 6 poles with a capacity of 60, 100, 140 and 200 amps. You can combine several conductors is one hanger bracket, details on page 13. The system can house up to 18 conductors in one plane. The SG conductor track can be supplied either in straight, horizontal or vertical curved sections, in special application for transfer stations, switches and turntables, detail on pages 14 and 15.

## The Housing

This consists of a twin-shell sheet metal enclosure galvanized by the Sendzimir process, therefore giving a high mechanical strength, and having a mechanical load capacity of up to 50 Kgs per metre when support brackets are installed at 1Mtr intervals. This means in practice you can support power tools and small components from the collector trolley.

The SG conductor track may be installed in temperatures from minus 40°C to plus 130°C. Please state ambient temperature. When ordering conductor track to be installed in temperatures of plus 60°C up to plus 130°C a special insulation can be installed.

## The Cover

This is made also from sheet-metal galvanized by the Sendzimir process, thus being resistant to mechanical and temperature damage.

## The Insulating Shields & Blocks

These are made from Thermosetting glassreinforced synthetic material. These blocks hold the copper bars in place and at the required distance apart for both the air gap and the tracking minimum distance.

The copper bars are specially made to give a good electrical and mechanical connection. Amperage of copper bars is 60, 100, 140 & 200 amp.

## Length of SG Track

Standard lengths supplied are 4.5 Metres. Shorter lengths can be made as required.

## Track Installation

This is made by the use of hanger brackets fitted to superstructure. Brackets may be moved horizontal and vertical for final positioning. The track connections are made by a joint plate and connecting sleeves fastened by screws giving a good electrical and mechanical connection.

## Electrical Feed Connections

These may be made at any joint between two lengths of track by means of a line feed connection piece. Alternatively, you may also take power from the system for stationary equipment without interrupting the collector trolley movement. Therefore giving you a dual purpose system. The system may be extended or shortened as required using standard parts.

## Inspection and Maintenance

This is minimised because you can remove each individual screwed cover for inspection of conductor bars and trolley, but remember to isolate power before carrying out this operation.

## The Collector Trolley

This is manufactured from sheet-metal with removable plastic wheels fitted with sealed bearings. The electrical collector housing is made from glass fibre reinforced material with spring loaded copper brushes. Depending upon the amperage required the collector is fitted with more brush holders, sizes available are 25, 40, 50 and 80 amp in one collector trolley.

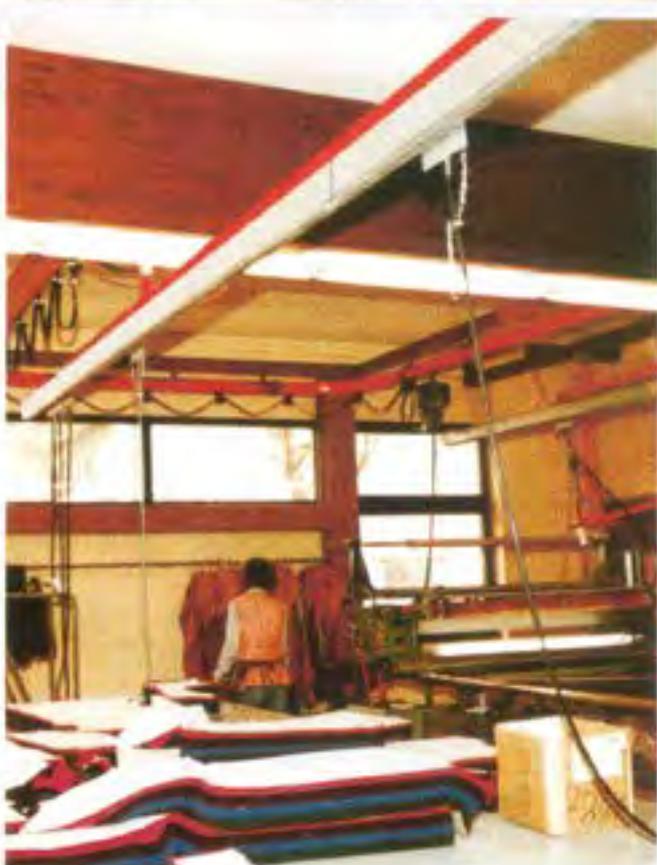
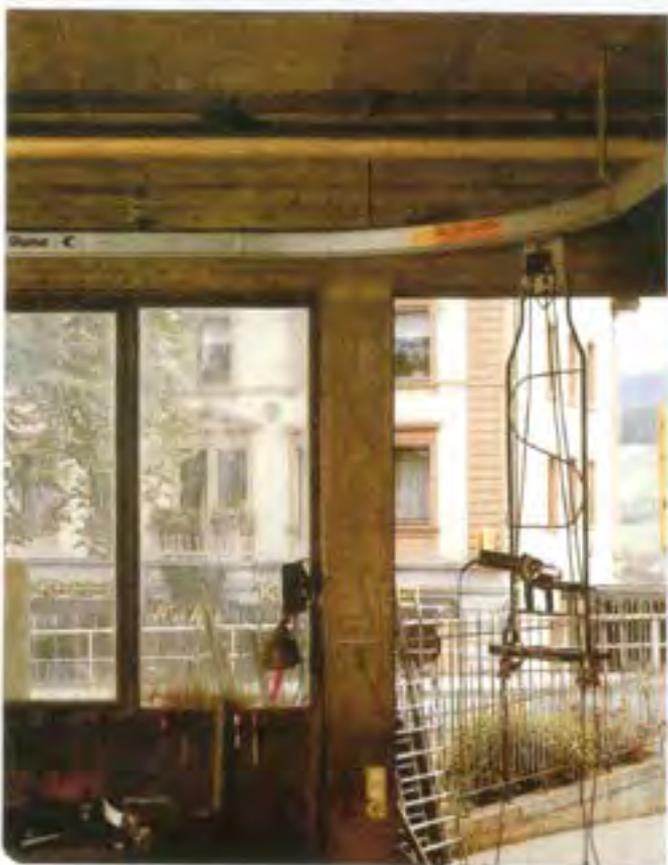
## Inserting and removal of collector trolley

The trolley wheels are set at the factory in the correct place for insertion into the end of a section of track. Alternatively the collector trolley may be installed or removed at any point in the system. Refer to instruction on page 19. The SG system has in its range of standard parts two components to facilitate to removal and insertion of the collector trolley. These parts are the AKLA and AUSV sections, details see page 14 and 15.

## Collector Trolley Base Plate

This base plate is used for the purpose of moving the trolley in either direction, it may also house different components such as terminal box, circuit breaker, fuse holders and plug and socket connector.

# The SG system at work



# Power conductor SG Profile I

up to 5 poles 100 amp capacity

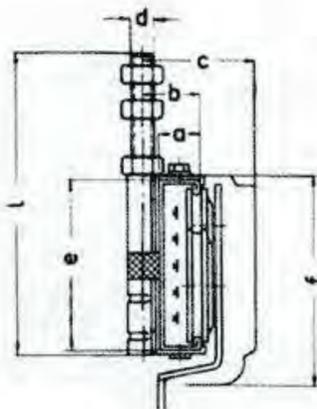
**Technical data:** number of poles 5 maximum  
Capacity 60 and 100 amps  
Voltage 0-500V maximum  
standard length 4.5 Metres

Curves  
Horizontal minimum radius 500 mm  
Vertical minimum radius 1500 mm

Please give drawing when requiring a quotation for system with curves. Isolation shields and blocks:

Thermosetting glass reinforced material.

Housing and cover: Cold formed sheet metal zinc-plated as per the Sendzimir process.



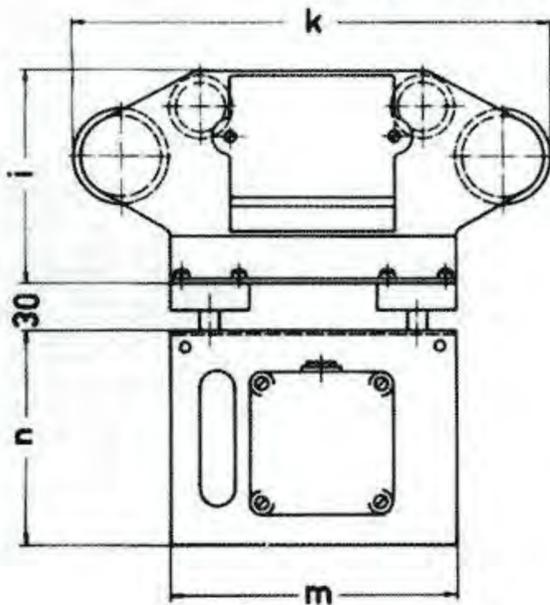
## Type poles and capacity

|                                   | SG 4/1/60 A | SG 4/1/100 A | SG 5/1/60 A | SG 5/1/100 A |
|-----------------------------------|-------------|--------------|-------------|--------------|
| Poles                             | 4           | 4            | 5           | 5            |
| Copper section in mm <sup>2</sup> | 10          | 16           | 10          | 16           |
| Electrical capacity at 25°C       | 60 A        | 100 A        | 60 A        | 100 A        |
| Weight per Metre (kg)             | 4,8         | 4,9          | 4,9         | 5,0          |
| a                                 | 22          | 22           | 22          | 22           |
| b                                 | 30          | 30           | 30          | 30           |
| c                                 | 59          | 59           | 59          | 59           |
| d                                 | M 12        | M 12         | M 12        | M 12         |
| e                                 | 90          | 90           | 90          | 90           |
| f                                 | 111         | 111          | 111         | 111          |
| l                                 | 160         | 160          | 160         | 160          |

## Additional component parts:

These make for a wider use of the standard design; The following may be used with profile no. I, weatherproofed covers, expansion joints, expansion sections, suspension on adapter, hinged outlet section AKLA, quick release section AUSV, rubber gasket for dust protection. Full details on pages 14 and 15.

Collector Trolley  
LGB and LGCM

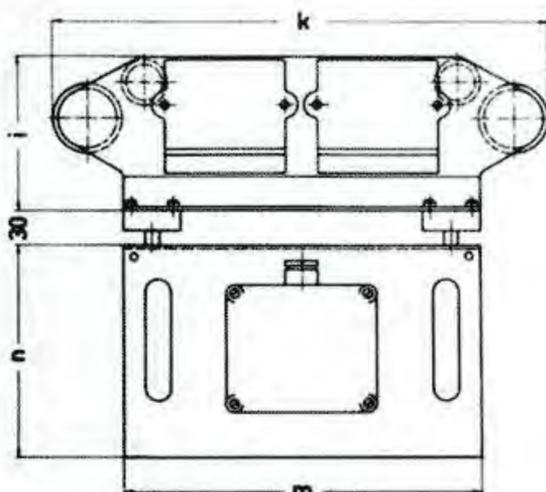


## Measurement of collector trolley

|                     | LGB 4/1/EZ | LGC 4/1/EZ | LGCM 4/1/EZ | LGR 4/1/EZ | LGB 5/1/EZ | LGC 5/1/EZ | LGCM 5/1/EZ | LGR 5/1/EZ |
|---------------------|------------|------------|-------------|------------|------------|------------|-------------|------------|
| Electrical capacity | 25 A       | 50 A       | 40 A        | 80 A       | 25 A       | 50 A       | 40 A        | 80 A       |
| i                   | 134        | 134        | 134         | 134        | 134        | 134        | 134         | 134        |
| k                   | 300        | 430        | 300         | 430        | 300        | 430        | 300         | 430        |
| m                   | 180        | 310        | 180         | 310        | 180        | 310        | 180         | 310        |
| n                   | 135        | 185        | 135         | 185        | 135        | 185        | 135         | 185        |

For details of collector trolley and base plate see pages 16 and 17.

Collector Trolley  
LGC and LGR



## Order example

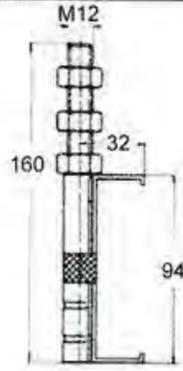
45 Metres conductor system SG 4/1/100 A consisting of:

- 10 x 4.5 Mts SG 4/1/100 A
- 9 Joint Plates VG 4/1
- 20 Suspension Brackets KG 15/1
- 1 End Feed-In Box EGA 4/1
- 1 End Box EG 1/1
- 1 - Collector Trolley LGB 4/1/EZ

**Distance of support brackets**

- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts

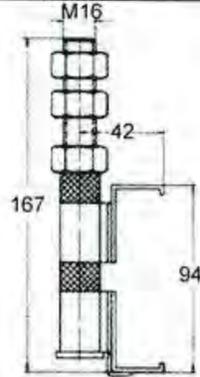
Support bracket galvanized  
Normal type for indoor use  
type no. KG 15/1



**Distance of support brackets**

- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts

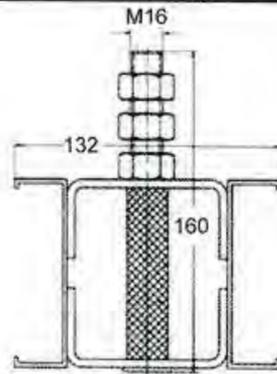
Support bracket galvanized  
Weatherproof type for outdoor use  
type no. KG 15/1/RG



**Distance of support brackets**

- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts

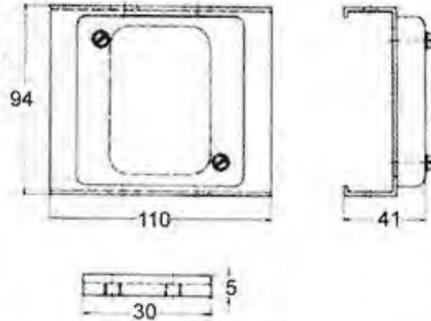
Twin support bracket galvanized  
For the combination of two conductor systems, for indoor and outdoor use  
type no. KG 30/1/D



**Joint Plate**

Sheet metal housing galvanized  
cover glass reinforced connecting  
sleeves brass nickel plated  
with screws.

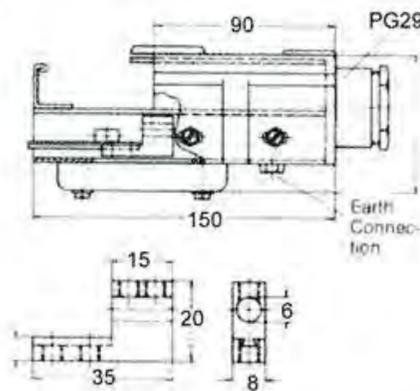
4 poles type no. VG 4/1  
5 poles type no. VG 5/1



**Power feed in box (end feed)**

Sheet metal housing galvanized  
Cover glass reinforced with  
PG 29 gland for cable  
Additional length to system  
100 mm for connection details  
see opposite

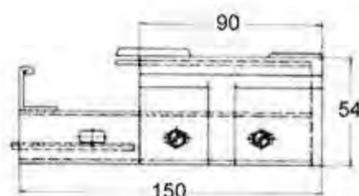
4 pole type no. EGA 4/1  
5 pole type no. EGA 5/1



**End Box**

Sheet metal housing galvanized  
cover glass reinforced.

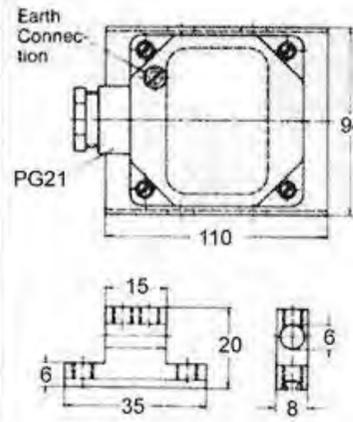
4 and 5 pole type no. EG 1/1



**Line feed in section**

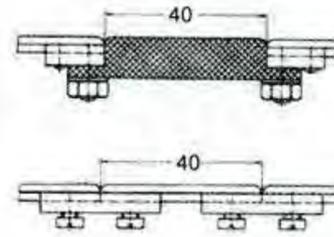
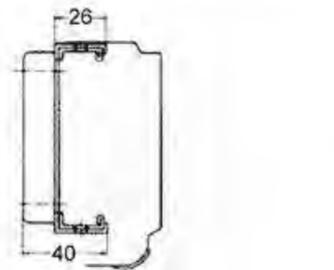
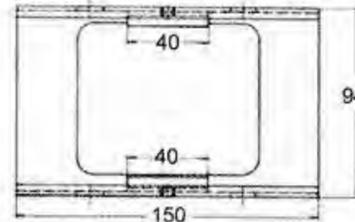
Sheet metal housing galvanized.  
Cover glass reinforced with PG 21  
gland for cable.  
This section is connected between  
two lengths of track. It may be used to  
supply the system with the electrical  
feed power or be used to feed  
stationary equipment without  
interrupting the collector trolley  
movement. For connection details  
see bottom of this page.

4 pole type no. AG 4/1  
5 pole type no. AG 5/1



**Circuit isolation section  
(without feed in)**

Sheet metal housing and cover  
galvanized. This section may be  
installed between any two lengths.  
Total length of system will increase  
by 40 mm.



With isolating blocks made of glass  
fibre material for conductors nos.  
L1, L2, L3 and N.

Copper joint sleeves are used for  
PEN and PE.

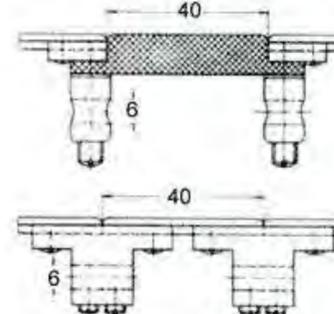
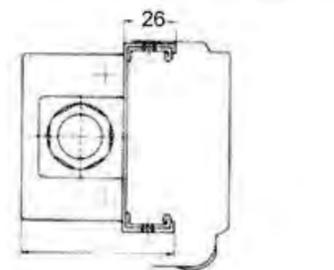
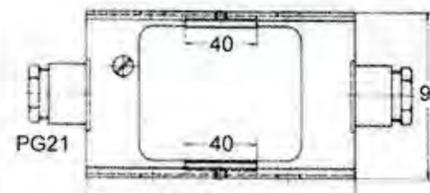
4 pole type no. TRO 4/1/60A  
4 pole type no. TRO 4/1/100A

5 pole type no. TRO 5/1/60A  
5 pole type no. TRO 5/1/100A

**Circuit isolation section  
(with feed in)**

Sheet metal housing and cover  
galvanized. This section may be  
installed between any two  
lengths.

Total length of system will increase  
by 40 mm.



With isolating blocks made of glass  
fibre and connecting studs for power  
feed at each side for conductors nos.  
L1, L2, L3 and N.

Copper joint sleeves are used for  
PEN and PE with connecting studs.

4 pole type no. TRM 4/1/60A  
4 pole type no. TRM 4/1/100A

5 pole type no. TRM 5/1/60A  
5 pole type no. TRM 5/1/100A

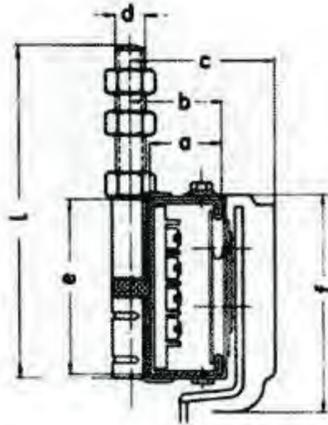
**Connection diagram for EGA AG & TRM**

| 4 pole | 5 pole |
|--------|--------|
| PEN    | N      |
| L1     | L1     |
| L2     | L2     |
| L3     | L3     |
|        | PE     |

# Power conductor SG Profile II

up to 4 pole 60, 100 and 200 amps

**Technical data:** number of poles 4 maximum  
Capacity 60, 100, 140 and 200 amps  
Voltage 0–500 V maximum  
standard length 4.5 Metres  
Curves  
Horizontal minimum radius 500 mm  
Vertical minimum radius 1500 mm  
Please give drawing when requiring a quotation for systems with curves. Isolating shields and blocks:  
Thermosetting glass reinforced material.  
Housing and cover: Cold formed sheet metal zinc-plated as per the Sendzmir process.



## Type poles and capacity

|                                   | SG 4/2/60 A | SG 4/2/100 A | SG 4/2/140 A | SG 4/2/200 A |
|-----------------------------------|-------------|--------------|--------------|--------------|
| Poles                             | 4           | 4            | 4            | 4            |
| Copper section in mm <sup>2</sup> | 10          | 16           | 40           | 64           |
| Electrical capacity at 25 °C      | 60 A        | 100 A        | 140 A        | 200 A        |
| Weight per Metre (kg)             | 6,2         | 6,4          | 7,3          | 8,2          |
| a                                 | 40          | 40           | 40           | 40           |
| b                                 | 50          | 50           | 50           | 50           |
| c                                 | 83          | 83           | 83           | 83           |
| d                                 | M 16        | M 16         | M 16         | M 16         |
| e                                 | 98          | 98           | 98           | 98           |
| f                                 | 120,5       | 120,5        | 120,5        | 120,5        |
| l                                 | 170         | 170          | 170          | 170          |

## Additional component parts:

These make for a wider use of the standard design; The following may be used with profile no. 2, weatherproofed covers, expansion joints, expansion sections, suspension on adaptor, hinged outlet section AKLA, quick release section AUSV, rubber gasket for dust protection, Bell mouth and transfer sections. Full details on pages 14 and 15.

## Measurement of collector trolley

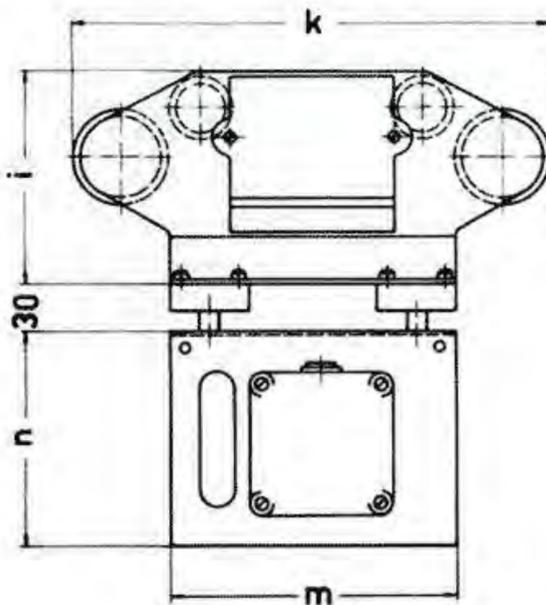
|                     | LGB 4/2/EZ | LGC 4/2/EZ | LGCM 4/2/EZ | LGR 4/2/EZ |
|---------------------|------------|------------|-------------|------------|
| Electrical capacity | 25 A       | 50 A       | 40 A        | 80 A       |
| i                   | 140        | 140        | 140         | 140        |
| k                   | 300        | 430        | 300         | 430        |
| m                   | 180        | 310        | 180         | 310        |
| n                   | 135        | 185        | 135         | 185        |

For details of collector trolley and base plate see pages 16 and 17.

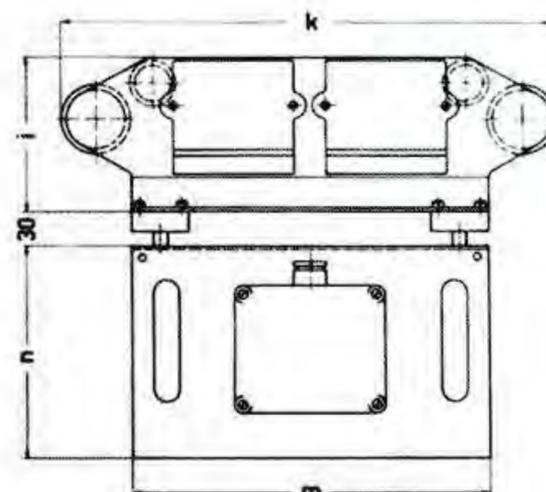
## Order example

37 Metres conductor system SG 4/2/200 A consisting of:  
8 x 4.5 Mtrs SG 4/2/200 A  
1 x 1.0 Mtr Line Feed Section AG 4/2/200 A  
8 Joint Plates VG 2/200 A  
25 Suspension Brackets KG 15/2  
2 End Boxes EG 1/2  
2 Collector Trolleys type LGB 4/2/EZ

Collector Trolley  
LGB and LGCM

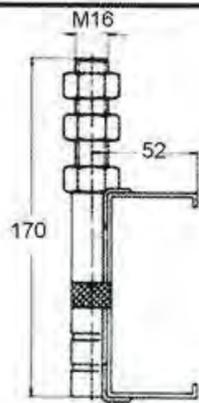


Collector Trolley  
LGC and LGR



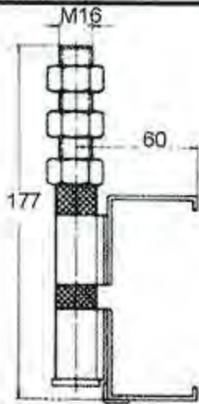
**Distance of support brackets for Profile II 60 and 100 A**

- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts



**Distance of support brackets for Profile II 140 and 200 A**

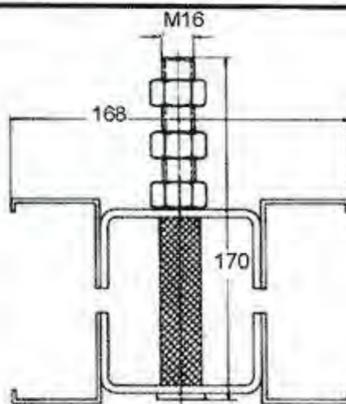
- Without load weight = 1.5 Mts
- With load up to 50 Kgs = 1.0 Mts
- Support bracket galvanized.
- Normal type for indoor use
- type no. KG 15/2.



**Distance of support brackets for Profile II 60 and 100 A**

- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts

- Distance of support brackets for Profile II 140 and 200 A**
- Without load weight = 1.5 Mts
- With load up to 50 Kgs = 1.0 Mts
- Weatherproofed type galvanized for outdoor use.
- Type no. KG 15/2/RG



**Distance of support brackets for profile II 60 and 100 A**

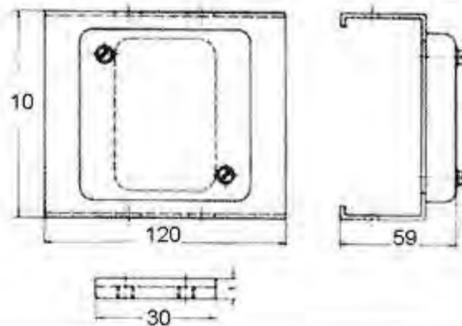
- a) Without load weight = 2.5 Mts
- b) With load up to 30 Kgs = 1.5 Mts
- c) With load up to 50 Kgs = 1.0 Mts

- Distance of support brackets for profile II 140 and 200 A**
- Without load weight = 1.5 Mts
- With load up to 50 Kgs = 1.0 Mts
- Twin support bracket galvanized for the combination of two conductor systems for indoor and outdoor use.
- Type no. KG 30/2/D

**Joint Plate**

Sheet metal housing galvanized cover glass reinforced connecting sleeves brass nickel plated with screws.

- 4 poles type no. VG 4/1
- 5 poles type no. VG 5/1

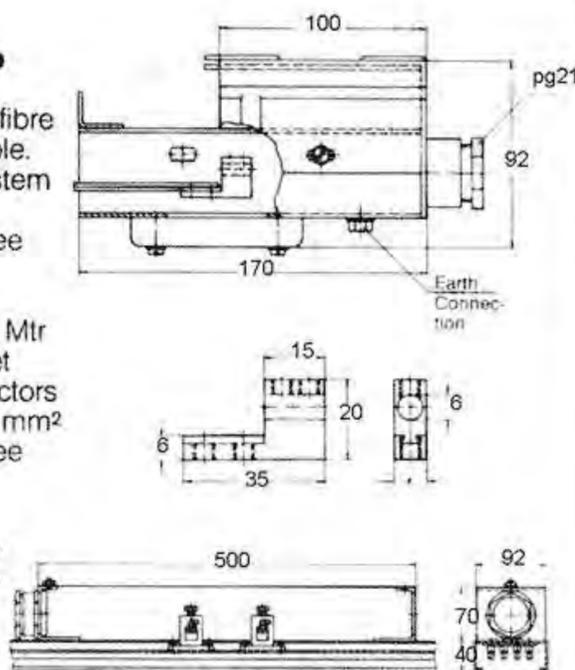


**Power feed in box (end feed)**

- 4 pole 60 and 100 Amp**
- Sheet metal housing galvanized. Cover glass fibre with PG 21 gland for cable.
- Additional length to system 100 mm
- For connection details see opposite.

- 4 pole 140 and 200 A**
- This part is fitted into a 1 Mtr track section with a sheet steel cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>
- For connection details see opposite.

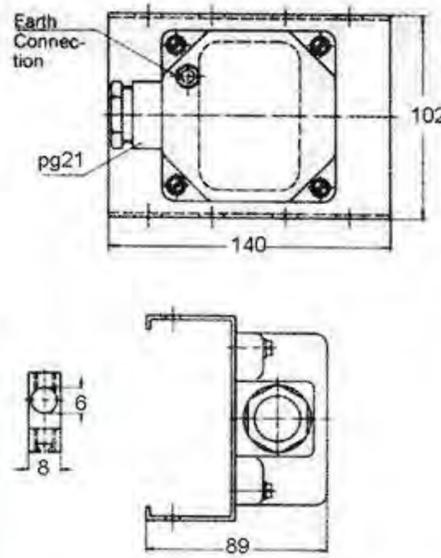
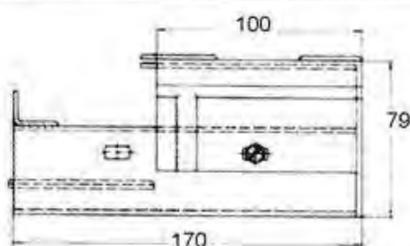
- 4 pole 140 and 200 A**
- Type no. EGA 4/2/140 A
- Type no. EGA 4/2/200 A



**End Box**

Sheet metal housing galvanized cover glass fibre

- Type no. EG 1/2



**Line feed in section**

Sheet metal housing galvanized cover glass fibre with PG 21 gland for cable. For connection details see bottom of this page.

- For 60 and 100 A Type no. AG 4/2/100 A**

**4 pole 140 and 200 A**

This part is fitted into a 1 Mtr track section with a steel cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>.

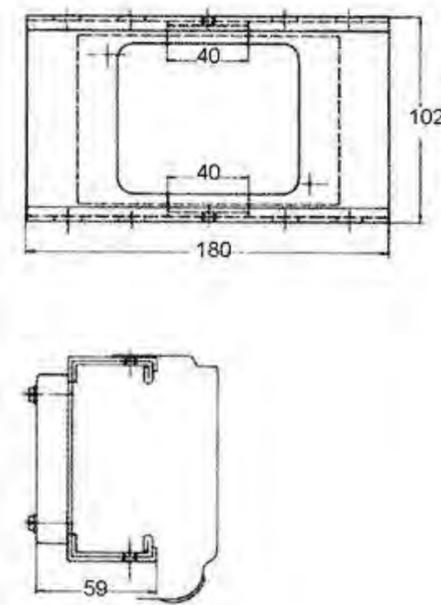
- For connection details see Type no. AG 4/2/140 A
- Type no. AG 4/2/200 A

**Circuit isolation section (without feed in)**

Sheet metal housing and cover galvanized. This section may be installed between any two lengths. Total length of system will increase by 40 mm.

With isolating blocks made of glass fibre material for conductors nos. L1, L2, L3 and N. Copper joint sleeves are used for PEN and PE.

- 4 pole type no. TRO 4/2/ 60 A
- 4 pole type no. TRO 4/2/100 A
- 4 pole type no. TRO 4/2/140 A
- 4 pole type no. TRO 4/2/200 A



**Circuit isolation section (with feed in) for 60 and 100 AMPS**

Sheet metal housing and cover galvanized. This section may be installed between any two lengths. Total length of system will increase by 40 mm.

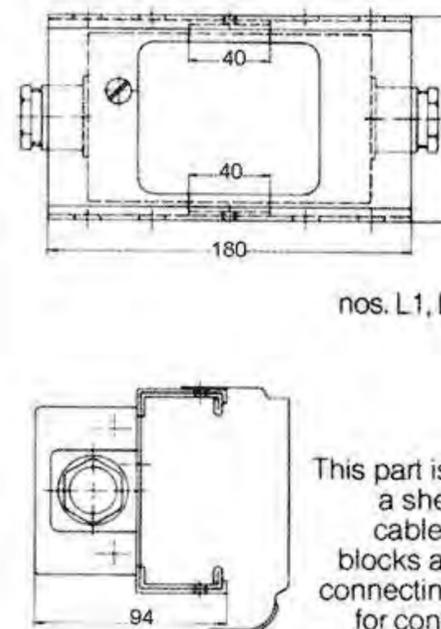
This isolating blocks are of glass fibre material and connecting studs for power feeds at each side for conductors nos. L1, L2, L3. Copper joint sleeves are used for PEN with connecting studs

- Type no. TRM 4/2/ 60 A
- Type no. TRM 4/2/100 A

**4 pole 140 and 200 A**

This part is fitted into a 1 Mtr track section with a sheet steel cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>. The isolating blocks are made of glass fibre material with connecting studs for power feed at each side for conductors nos L1, L2, L3. Copper joint sleeves are used for PEN with connecting studs

- Type no. TRM 4/2/140 A
- Type no. TRM 4/2/200 A



**Connection diagram for EGA AG & TRM 4 Pole**

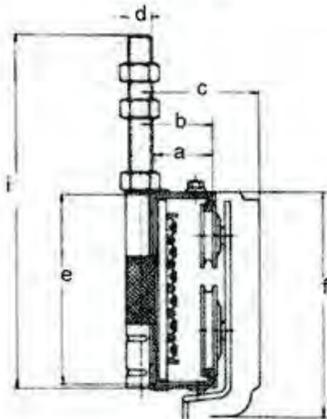
|  |     |
|--|-----|
|  | PEN |
|  | L 1 |
|  | L 2 |
|  | L 3 |

# Power conductor SG Profile III

up to 6 poles 60, 100, 140 and 200 Amps

**Technical data:** number of poles 6 maximum  
Capacity 60, 100, 140 and 200 amps  
Voltage 0-500 V maximum  
standard length 4.5 Metres

Curves  
Horizontal minimum radius 500 mm  
Vertical minimum radius 1500 mm  
Please give drawing when requiring a quotation for systems with curves. Isolating shields and blocks:  
Thermosetting glass reinforced material.  
Housing and cover: Cold formed sheet metal zinc-plated as per the sendzmir process.



## Type poles and capacity

|                                   | SG 5/3/60 A | SG 5/3/100 A | SG 5/3/140 A | SG 5/3/200 A | SG 6/3/60 A | SG 6/3/100 A | SG 6/3/140 A | SG 6/3/200 A |
|-----------------------------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| Poles                             | 5           | 5            | 5            | 5            | 6           | 6            | 6            | 6            |
| Copper section in mm <sup>2</sup> | 10          | 16           | 40           | 64           | 10          | 16           | 40           | 64           |
| Electrical capacity at 25 °C      | 60 A        | 100 A        | 140 A        | 200 A        | 60 A        | 100 A        | 140 A        | 200 A        |
| Weight per Metre (kg)             | 7,48        | 7,75         | 8,55         | 9,62         | 7,57        | 7,90         | 8,91         | 10,2         |
| Measurement in mm                 | a           | 40           | 40           | 40           | 40          | 40           | 40           | 40           |
|                                   | b           | 50           | 50           | 50           | 50          | 50           | 50           | 50           |
|                                   | c           | 83           | 83           | 83           | 83          | 83           | 83           | 83           |
|                                   | d           | M16          | M16          | M16          | M16         | M16          | M16          | M16          |
|                                   | e           | 132          | 132          | 132          | 132         | 132          | 132          | 132          |
|                                   | f           | 154,5        | 154,5        | 154,5        | 154,5       | 154,5        | 154,5        | 154,5        |
|                                   | l           | 210          | 210          | 210          | 210         | 210          | 210          | 210          |

## Additional component parts:

These make for a wider use of the standard design; The following may be used with profile no. 3, weatherproofed covers, expansion joints, expansion sections, suspension on adaptor, hinged outlet section AKLA, quick release section AUSV, rubber gasket for dust protection, Bell mouth and transfer sections. Full details on pages 14 and 15.

## Measurement of collector trolley

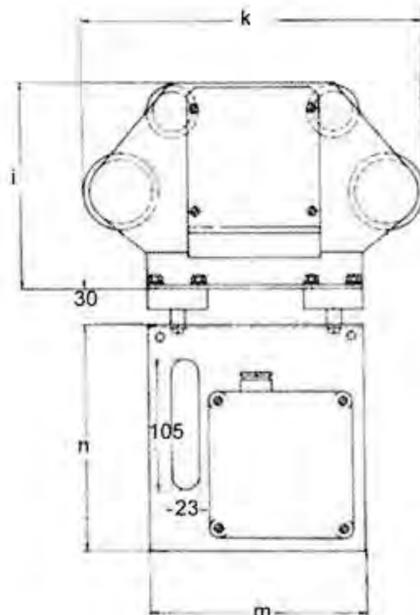
|                     | LGB 5/3/EZ | LGC 5/3/EZ | LGCM 5/3/EZ | LGR 5/3/EZ | LGB 6/3/EZ | LGC 6/3/EZ | LGCM 6/3/EZ | LGR 6/3/EZ |
|---------------------|------------|------------|-------------|------------|------------|------------|-------------|------------|
| Electrical capacity | 25 A       | 50 A       | 40 A        | 80 A       | 25 A       | 50 A       | 40 A        | 80 A       |
| Measurement in mm   | i          | 170        | 170         | 170        | 170        | 170        | 170         | 170        |
|                     | k          | 285        | 412         | 285        | 412        | 285        | 412         | 412        |
|                     | m          | 180        | 310         | 180        | 310        | 180        | 310         | 310        |
|                     | n          | 185        | 185         | 185        | 185        | 185        | 185         | 185        |

For details of collector trolley and base plate see pages 16 and 17.

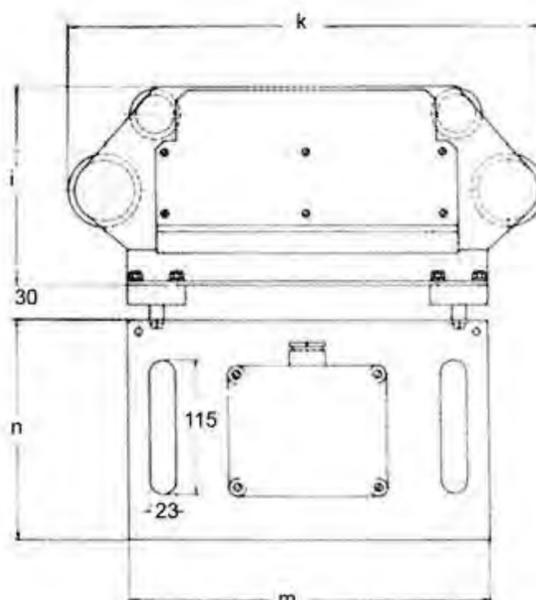
## Order example

50 Metres conductor system SG 6/3/60 A  
Consisting of:  
11 x 4.5 Mtrs SG 6/3/60 Amp  
1 x 0.5 Mtr SG 6/3/60 Amp  
11 Joint Plates VG 6/3/50 Amp  
34 Suspension Brackets KG 15/3  
1 End Feed-In Box EGA 6/3/60 Amp  
1 End Box EG 1/3  
1 Collector Trolley LGB 6/3/EZ

Collector Trolley  
LGB and LGCM



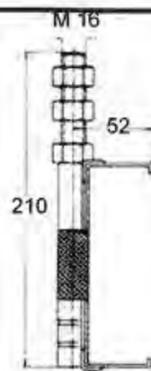
Collector Trolley  
LGC and LGR



**Distance of support brackets**

- a) Without load weight = 1.5 Mts
- b) With load up to 50 Kgs = 1.0 Mts

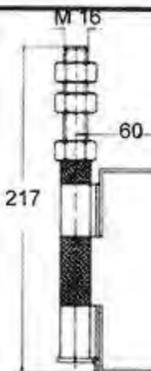
Support bracket galvanized  
Normal type for indoor use  
Type no. KG 15/3



**Distance of support brackets**

- a) Without load weight = 1.5 Mts
- b) With load up to 50 Kgs = 1.0 Mts

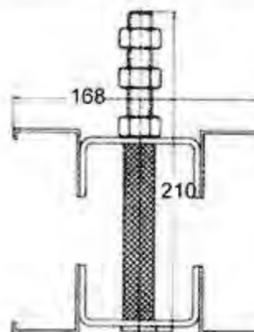
Support brackets galvanized  
Weatherproof type for outdoor use  
Type no. KG 15/3/RG



**Distance of support brackets**

- a) Without load weight = 1.5 Mts
- b) With load up to 50 Kgs = 1.0 Mts

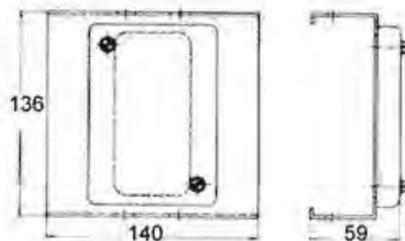
Support bracket galvanized  
Twin support bracket for the combination  
of two conductor system for indoor and  
outdoor use  
Type no. KG 30/3/D



**Joint Plate**

Sheet metal housing galvanized  
cover glass reinforced connecting  
sleeves brass nickel plated with  
screws.

- 5 pole type no. VG 5/3/100 A
- 6 pole type no. VG 6/3/100 A
- 5 pole type no. VG 5/3/200 A
- 6 pole type no. VG 6/3/200 A



**Power Feed-In box (end feed)**

**5 and 6 pole 60 and 100 Amp**

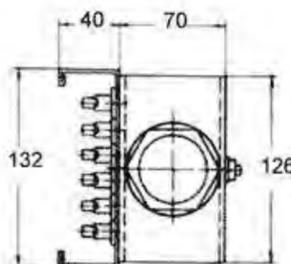
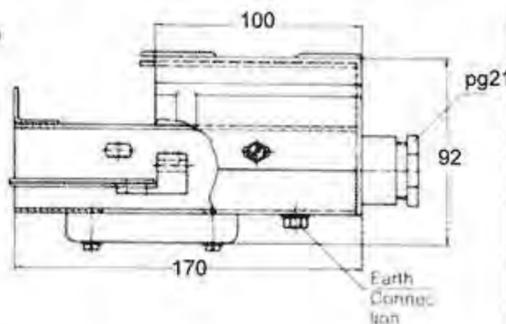
Sheet metal housing galvanized. Cover glass fibre with PG 21 gland for cable. Additional length to system 100 mm. For connection details see opposite.

**5 and 6 pole 140 and 200 Amp**

This part is fitted into a 1 Mtr track section with a sheet steel cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>. For connection details see opposite.

**5 and 6 pole 140 and 200 Amp**

- 5 pole type no. EGA 5/3/140 A
- 5 pole type no. EGA 5/3/200 A
- 6 pole type no. EGA 6/3/140 A
- 6 pole type no. EGA 6/3/200 A



**End Box**

Sheet metal housing galvanized cover glass fibre  
Type no. EG 1/3

**Line Feed-In section**

**5 and 6 pole 60 and 100 Amp**

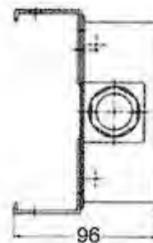
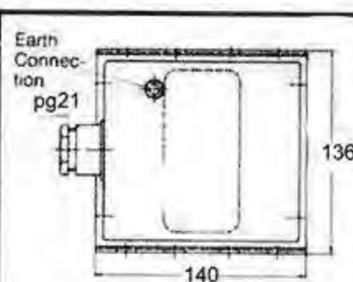
Sheet metal housing galvanized cover glass fibre with PG 21 gland for cable. For connection details see bottom of this page.

- 5 pole type no. AG 5/3/100 A
- 6 pole type no. AG 6/3/100 A

**5 and 6 pole 140 and 200 Amp**

This part is fitted into a 1 Mtr track section with a sheet cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>. For connection details see

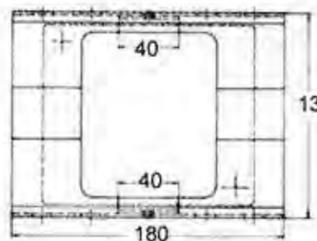
- 5 pole type no. AG 5/3/140 A
- 6 pole type no. AG 6/3/140 A
- 5 pole type no. AG 5/3/200 A
- 6 pole type no. AG 6/3/200 A



**Circuit isolating section (without Feed-In)**

Sheet metal housing and cover galvanized. This section may be installed between any two lengths. Total length of system will increase by 40 mm.

- 5 pole type no. AG 5/3/ 60 A
- 5 pole type no. AG 5/3/100 A
- 5 pole type no. AG 5/3/140 A
- 5 pole type no. AG 5/3/200 A
- 6 pole type no. AG 6/3/ 60 A
- 6 pole type no. AG 6/3/100 A
- 6 pole type no. AG 6/3/140 A
- 6 pole type no. AG 6/3/200 A



**Circuit isolating section (with Feed-In) for 60 and 100 amps**

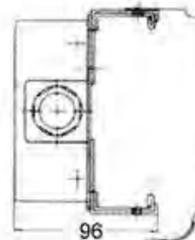
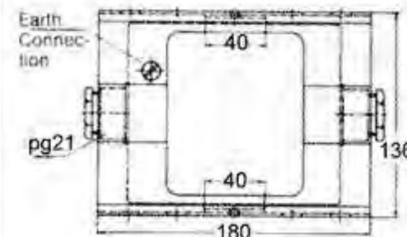
Sheet metal housing and cover galvanized. This section may be installed between any two lengths. Total length of system will increase by 40 mm. The isolating blocks are of glass fibre material and connecting studs for power feeds at each side for conductors nos. L1, L2, L3. Copper joint sleeves are used for PEN with connecting studs.

- Type no. TRM 5/3/ 60 A
- Type no. TRM 5/3/100 A
- Type no. TRM 6/3/ 60 A
- Type no. TRM 6/3/100 A

**5 and 6 poles 140 and 200 A**

This part is fitted into a 1 Mtr track section with a sheet steel cover, cable connectors for cable sizes 25 to 120 mm<sup>2</sup>. The isolating blocks are made of glass fibre material with connecting studs for power feed at each side for conductors nos. L1, L2, L3. Copper joint sleeves are used for not interrupted conductors complete with connecting studs. For connecting details see bottom of page.

- Type no. TRM 5/3/140 A
- Type no. TRM 6/3/140 A
- Type no. TRM 5/3/200 A
- Type no. TRM 6/3/200 A



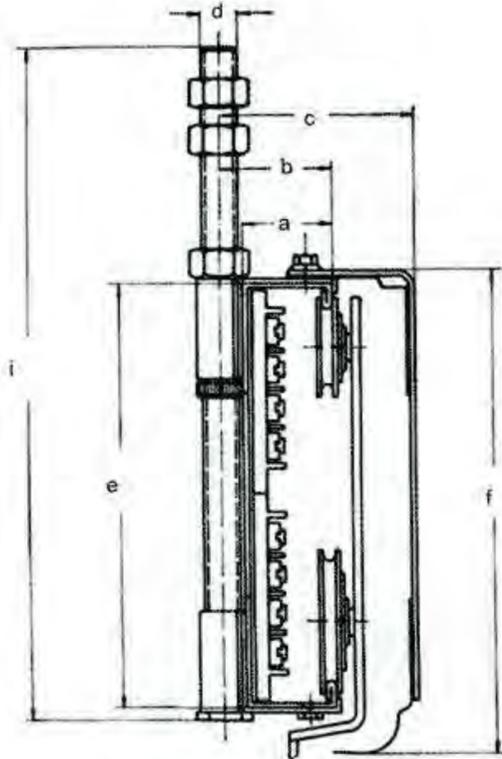
**Connection diagram for EGA AG & TRM**

| 5 Pole | 6 Pole |
|--------|--------|
| PE     | PEN    |
| L 1    | L 1    |
| L 2    | L 2    |
| L 3    | L 3    |
| N      | L 4    |
|        | L 5    |

# Power conductor SG Profile IV

up to 18 poles 60, 100, 140 and 200 Amps

**Technical data:** number of poles 18 maximum  
 Capacity 60, 100, 140 and 200 amps  
 Voltage 0-500 V maximum  
 standard length 4.5 Metres  
 Curves  
 Horizontal minimum radius 500 mm  
 Vertical minimum radius 1500 mm  
 Please give drawing when requiring a quotation for systems with curves. Isolating shields and blocks:  
 Thermosetting glass reinforced material.  
 Housing and cover: Cold formed sheet metal zinc-plated as per the Sendzmir process.



Type, number of poles and capacity.

|                     | SG 7/4/60 A<br>100 A/140 A/200 A | SG 8/4/60 A<br>100 A/140 A/200 A | SG 9/4/60 A/100 A<br>140 A/140 A/200 A | SG 10/4/60 A<br>100 A/140 A/200 A | SG 11/4/60 A<br>100 A/140 A/200 A | SG 12/4/60 A<br>100 A/140 A/200 A | SG 13/4/60 A<br>100 A/140 A/200 A | SG 14/4/60 A<br>100 A/140 A/200 A | SG 15/4/60 A<br>100 A/140 A/200 A | SG 16/4/60 A<br>100 A/140 A/200 A | SG 17/4/60 A<br>100 A/140 A/200 A | SG 18/4/60 A<br>100 A/140 A/200 A |
|---------------------|----------------------------------|----------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Poles               | 7                                | 8                                | 9                                      | 10                                | 11                                | 12                                | 13                                | 14                                | 15                                | 16                                | 17                                | 18                                |
| Copper Section      | 10-64                            | 10-64                            | 10-64                                  | 10-64                             | 10-64                             | 10-64                             | 10-64                             | 10-64                             | 10-64                             | 10-64                             | 10-64                             | 10-64                             |
| Electrical Capacity | 60 -<br>200 A                    | 60 -<br>200 A                    | 60 -<br>200 A                          | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     | 60 -<br>200 A                     |
| Weight per Mtr.     | 12 -<br>15,7                     | 12 -<br>15,7                     | 13,7<br>18,5                           | 13,7<br>18,5                      | 16,8 -<br>22,6                    | 16,8<br>22,6                      | 19,8 -<br>26,5                    | 19,8 -<br>26,5                    | 22 -<br>29,6                      | 22 -<br>29,6                      | 23,8 -<br>32,5                    | 23,8 -<br>32,5                    |
| a                   | 40                               | 40                               | 40                                     | 40                                | 40                                | 40                                | 40                                | 40                                | 40                                | 40                                | 40                                | 40                                |
| b                   | 50                               | 50                               | 50                                     | 50                                | 50                                | 50                                | 50                                | 50                                | 50                                | 50                                | 50                                | 50                                |
| c                   | 86                               | 86                               | 87                                     | 87                                | 90                                | 90                                | 90                                | 90                                | 90                                | 90                                | 90                                | 90                                |
| d                   | M 16                             | M 16                             | M 16                                   | M 16                              | M 16                              | M 16                              | M 16                              | M 16                              | M 16                              | M 16                              | M 16                              | M 16                              |
| e                   | 189,5                            | 189,5                            | 223,5                                  | 223,5                             | 257,5                             | 257,5                             | 315                               | 315                               | 349                               | 349                               | 383                               | 383                               |
| f                   | 214                              | 214                              | 249                                    | 249                               | 286                               | 286                               | 343                               | 343                               | 377                               | 377                               | 412                               | 412                               |
| l                   | 265                              | 265                              | 305                                    | 305                               | 390                               | 390                               | 390                               | 460                               | 460                               | 490                               | 490                               | 520                               |

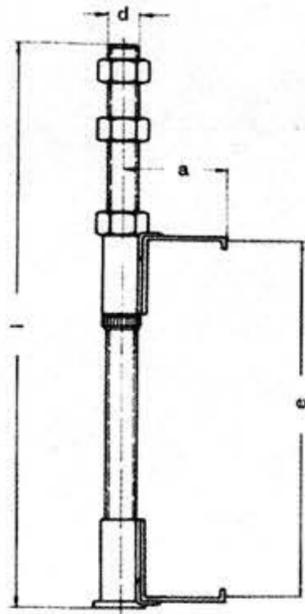
Measurement  
in mm

### Additional component parts:

These make for a wider use of the standard design; The following may be used with profile no. 4 weatherproofed covers, expansion joints, expansion sections, suspension on adaptor, hinged outlet section AKLA, quick release section AUSV, rubber gasket for dust protection, Bell mouth and transfer sections. Full details on pages 14 and 15.

### Order example for 16 poles 100 Amp

36 Metres conductor system SG 16/4/100 A  
 Consisting of:  
 8 x 4.5 Mts SG 16/4/100 A  
 7 x Joint Plates VG 16/4/100 A  
 36 Suspension Brackets KG 15/4/16  
 1 End Feed in Box EGA 16/4/100 A  
 1 End Box EG 1/4/16  
 1 Collector Trolley LGB 16/4/EZ/M

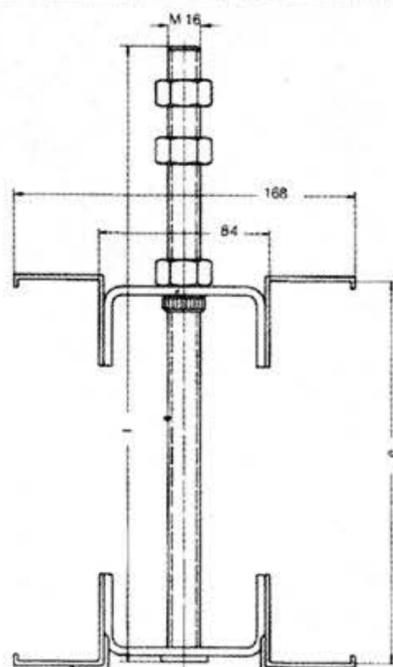


Distance of support brackets  
for profile 4 = 1.0 Mts

Support bracket KG 15/4 Galvanized

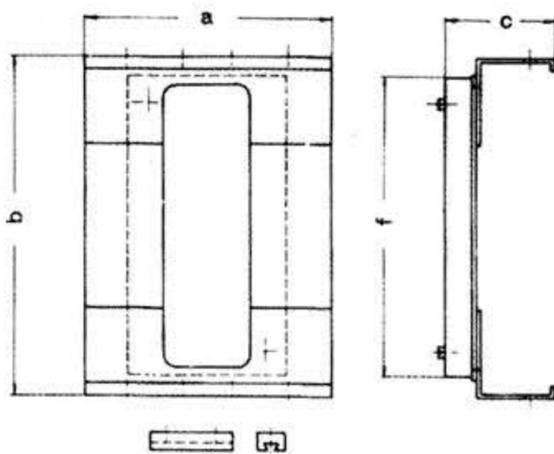
| Measurement<br>in mm | Type no. of poles |              |               |               |               |               |
|----------------------|-------------------|--------------|---------------|---------------|---------------|---------------|
|                      | KG 15/4/7/8       | KG 15/4/9/10 | KG 15/4/11/12 | KG 15/4/13/14 | KG 15/4/15/16 | KG 15/4/17/18 |
| a                    | 52                | 52           | 52            | 52            | 52            | 52            |
| d                    | M 16              | M 16         | M 16          | M 16          | M 16          | M 16          |
| e                    | 189,5             | 223,5        | 257,5         | 315           | 349           | 383           |
| l                    | 265               | 305          | 390           | 460           | 490           | 520           |

Also weatherproof type available



Twin support bracket Galvanized type 30/4/D

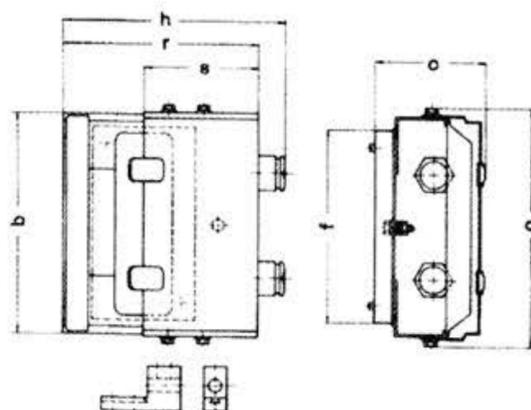
| Measurement<br>in mm | Type no. of poles |                |                 |                 |                 |                 |
|----------------------|-------------------|----------------|-----------------|-----------------|-----------------|-----------------|
|                      | KG 30/4/7/8/D     | KG 30/4/9/10/D | KG 30/4/11/12/D | KG 30/4/13/14/D | KG 30/4/15/16/D | KG 30/4/17/18/D |
| e                    | 189,5             | 223,5          | 257,5           | 315             | 349             | 383             |
| l                    | 265               | 305            | 360             | 410             | 440             | 470             |



Joint plate VG for electrical and mechanical  
connection, connecting sleeves brass nickel  
plated with screws.

| Measurement<br>in mm | Type no. of pole<br>and capacity |                 |                 |                  |                  |                  |
|----------------------|----------------------------------|-----------------|-----------------|------------------|------------------|------------------|
|                      | VG 7/4/60A/100A                  | VG 8/4/60A/100A | VG 9/4/60A/100A | VG 10/4/60A/100A | VG 11/4/60A/100A | VG 12/4/60A/100A |
| a                    | 150                              | 150             | 150             | 150              | 150              | 150              |
| b                    | 195                              | 229             | 263             | 320              | 354              | 388              |
| c                    | 61                               | 61              | 61              | 61               | 61               | 61               |
| f                    | 170                              | 204             | 238             | 296              | 330              | 364              |

Power feed in box (end box) for 60 and 100 Amps  
For 140 and 200 Amps it is installed in a  
1.0 Mtr section

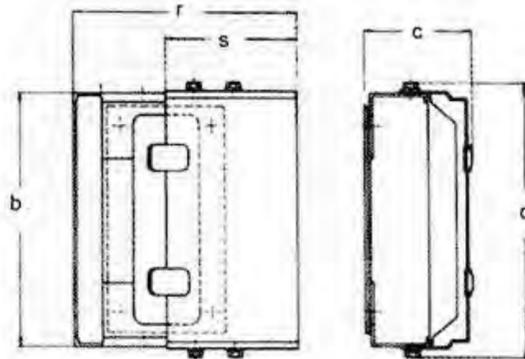


| Measurement<br>in mm | Type no. of pole<br>and capacity |                  |                  |                   |                   |                   |
|----------------------|----------------------------------|------------------|------------------|-------------------|-------------------|-------------------|
|                      | EGA 7/4/60A/100A                 | EGA 8/4/60A/100A | EGA 9/4/60A/100A | EGA 10/4/60A/100A | EGA 11/4/60A/100A | EGA 12/4/60A/100A |
| b                    | 195                              | 229              | 263              | 320               | 354               | 388               |
| c                    | 95                               | 95               | 95               | 95                | 95                | 95                |
| h                    | 195                              | 195              | 195              | 195               | 195               | 195               |
| r                    | 170                              | 170              | 170              | 170               | 170               | 170               |
| s                    | 100                              | 100              | 100              | 100               | 100               | 100               |
| o                    | 210                              | 244              | 278              | 336               | 370               | 404               |
| f                    | 170                              | 204              | 238              | 296               | 330               | 364               |

# Power conductor SG Profile IV

up to 18 poles 60, 100, 140 and 200 Amps

## End Box (without Feed-In)

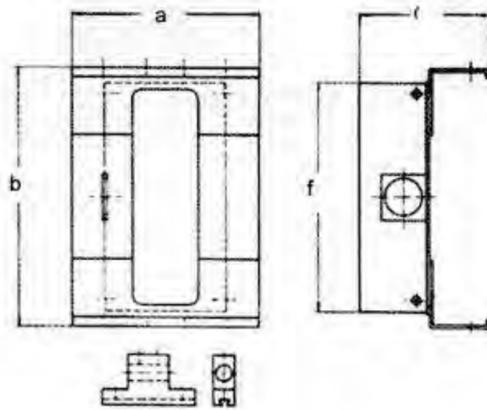


| Type no. of poles | EG 1/4/ 7 |     | EG 1/4/ 8 |     | EG 1/4/ 9 |     | EG 1/4/10 |  | EG 1/4/11 |  | EG 1/4/12 |  | EG 1/4/13 |  | EG 1/4/14 |  | EG 1/4/15 |  | EG 1/4/16 |  | EG 1/4/17 |  | EG 1/4/18 |  |  |
|-------------------|-----------|-----|-----------|-----|-----------|-----|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|--|
|                   |           |     |           |     |           |     |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |
| b                 | 195       | 229 | 263       | 320 | 354       | 388 |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |
| c                 | 80        | 80  | 80        | 80  | 80        | 80  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |
| f                 | 170       | 170 | 170       | 170 | 170       | 170 |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |
| s                 | 100       | 100 | 100       | 100 | 100       | 100 |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |
| o                 | 210       | 244 | 278       | 336 | 370       | 404 |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |           |  |  |

Measurement in mm

## Line Feed-In in section for 60A and 100A

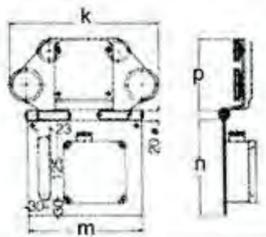
For 140 and 200 Amps it is installed in a 1.0 Mtr section.



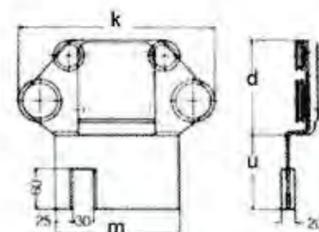
Measurement in mm

| Type no. of poles | AG 7/4/60A/100A |     | AG 8/4/60A/100A |     | AG 9/4/60A/100A |     | AG 10/4/60A/100A |  | AG 11/4/60A/100A |  | AG 12/4/60A/100A |  | AG 13/4/60A/100A |  | AG 14/4/60A/100A |  | AG 15/4/60A/100A |  | AG 16/4/60A/100A |  | AG 17/4/60A/100A |  | AG 18/4/60A/100A |  |  |
|-------------------|-----------------|-----|-----------------|-----|-----------------|-----|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|------------------|--|--|
|                   |                 |     |                 |     |                 |     |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |  |
| a                 | 150             | 150 | 150             | 150 | 150             | 150 |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |  |
| b                 | 195             | 229 | 263             | 320 | 354             | 388 |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |  |
| c                 | 96              | 96  | 96              | 96  | 96              | 96  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |  |
| f                 | 170             | 204 | 238             | 296 | 330             | 364 |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |                  |  |  |

## Electrical capacity and measurement of the collector trolley



|   | LGB + LGCM<br>7/4 + 8/4 EZ/ROHR | LGC + LGR<br>7/4 + 8/4 EZ/M | LGB + LGCM<br>9/4 + 10/4 EZ/ROHR | LGC + LGR<br>9/4 + 10/4 EZ/M | LGB + LGCM<br>11/4 + 12/4 EZ/M | LGC + LGR<br>11/4 + 12/4 EZ/M |
|---|---------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------------------|-------------------------------|
| Capacity amperage                                     | 25 + 40                         | 50 + 80                     | 25 + 40                          | 50 + 80                      | 25 + 40                        | 50 + 80                       |
| k   | 315                             | 450                         | 315                              | 500                          | 300                            | 500                           |
| m   | 220                             | 450                         | 220                              | 500                          | 300                            | 500                           |
| n   | 185                             | 110                         | 185                              | 110                          | 110                            | 110                           |
| p   | 202                             | 202                         | 236                              | 236                          | 270                            | 270                           |
| EZ connection box fitted to base plate                | x                               | -                           | x                                | -                            | -                              | -                             |
| EZ/M Collector with cable only<br>max. length 2.0 Mts | -                               | x                           | -                                | x                            | x                              | x                             |



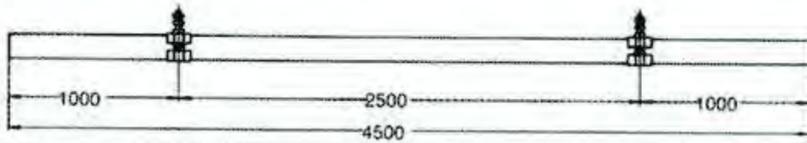
|   | LGB + LGCM<br>13/4 + 14/4 EZ/M | LGC + LGR<br>13/4 + 14/4 EZ/M | LGB + LGCM<br>15/4 + 16/4 EZ/M | LGC + LGR<br>15/4 + 16/4 EZ/M | LGB + LGCM<br>17/4 + 18/4 EZ/M | LGC + LGR<br>17/4 + 18/4 EZ/M |
|---|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Capacity amperage                                     | 25 + 40                        | 50 + 80                       | 25 + 40                        | 50 + 80                       | 25 + 40                        | 50 + 80                       |
| k   | 300                            | 500                           | 380                            | 500                           | 380                            | 500                           |
| m   | 300                            | 500                           | 440                            | 500                           | 440                            | 500                           |
| n   | 110                            | 110                           | 110                            | 110                           | 110                            | 110                           |
| p   | 328                            | 328                           | 362                            | 362                           | 396                            | 396                           |
| EZ connection box fitted to base plate                | -                              | -                             | -                              | -                             | -                              | -                             |
| EZ/M Collector with cable only<br>max. length 2.0 Mts | x                              | x                             | x                              | x                             | x                              | x                             |

For further detail see pages 16 and 17

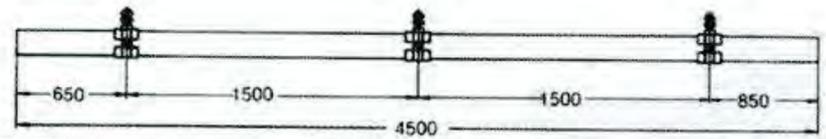
# Method of installation

## 1) Distance of support brackets

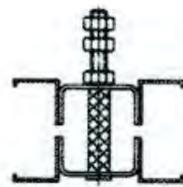
2.5 Mts



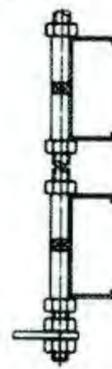
1.5 Mts



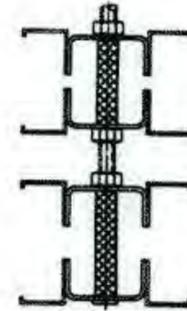
## 2) Combination of track Examples



Back to back

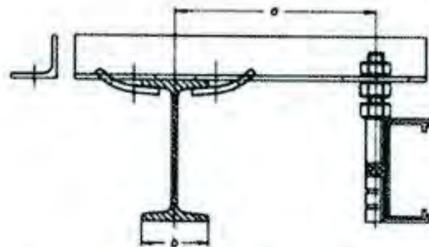


Below each other



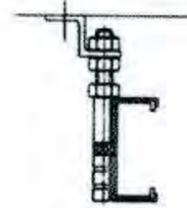
4 Systems

## 3) Application of installation



a) **Fitting** from the girder with moveable girder clamp measurement A may be determined by yourself. Please state in your order measurement B and the cross section of the suspension bolt.

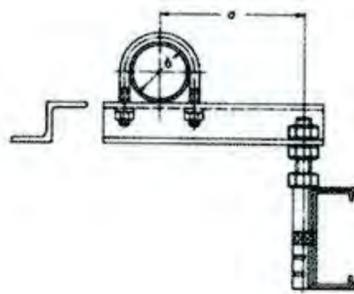
**Example** A = 250 B = 50  $\phi$  = 12 mm  
Type no. AVEZ 12/250/50



d) **Angled ceiling bracket**

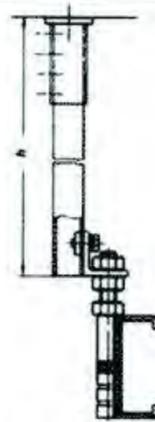
Please state in your order dia of suspension bolt.

**Example**  $\phi$  12 mm  
Type no. Z12



b) **Fitting** from a tube with moveable U clamp measurement A may be determined by yourself. Please state in your order the diameter of the tube and that of the suspension bolt.

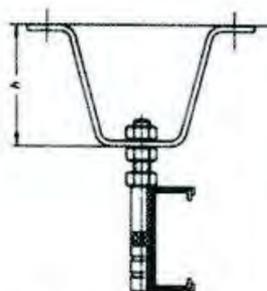
**Example** A = 250 B = 60  $\phi$  = 12 mm  
Type no. R12/250/60



e) **Suspension ceiling bracket**

Please state in your order measurement H and dia of suspension bolt.

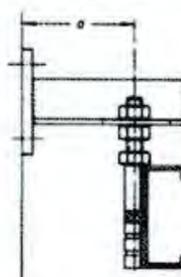
**Example** H = 250  $\phi$  = 12 · Type no. D 12/250



c) **Roof fixing with V bracket**

Measurement H may be determined by yourself. Please state in your order the dia of the suspension bolt.

**Example** H = 200 Dia = 12 mm  
Type no. V12/200



**Wall and side fixing bracket**

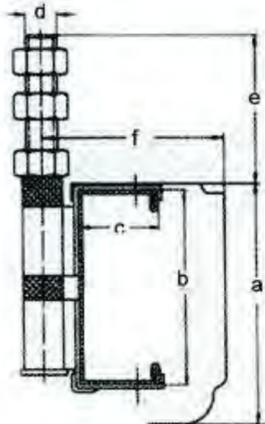
When using this bracket you must install collector trolleys with base plate type EZ/W

Please state the dia of suspension bolt.

**Example**  $\phi$  = 12 mm A = 250 (not smaller than 150 mm)  
Type no. W12/250

# Additional components

## for profile I to IV



| Profile | 1   | 2     | 3     | 4    |
|---------|-----|-------|-------|------|
| a       | 111 | 120,5 | 154,5 | -    |
| b       | 90  | 98    | 132   | -    |
| c       | 22  | 40    | 40    | 40   |
| d       | 16  | 16    | 16    | 16   |
| e       | 75  | 75    | 75    | 75   |
| f       | 69  | 91,5  | 91,5  | 91,5 |

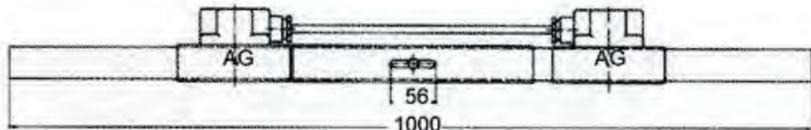
Measurement in mm

### Weatherproof System

With this system you can install SG conductor track outdoors. Please state in your order if this is required, as special pieces are used. Contrary to the normal system the cover has a lip on the rear edge. In this system it is also possible to fit heating elements on bottom ledge of track.

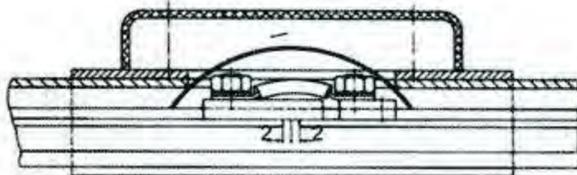
### Expansion Section

The length of this section is 1.0 Mtr, copper, housing and cover can more + or - 25 mm. These are to be used in areas where a major change of temperature is experienced in a system or at an expansion section on a girder. The expansion section has a centre clamping, when installing this the screw must be loosened to allow movement of section.



### Expansion Joint

This joint piece is made for where you may wish to take up the expansion on contraction of the copper at various points in the system and where no expansion girder is fitted. You must shorten the copper at each of these points by 2 mm insert the special isolating tape.

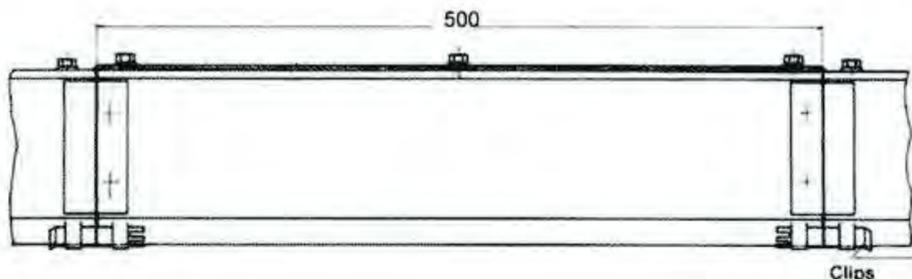


### Hinged outlet section AKLA

The section is 500 mm in length but installed in a normal 4.5 Mtr section. Its design is for easy insertion and removal of collector trolley.

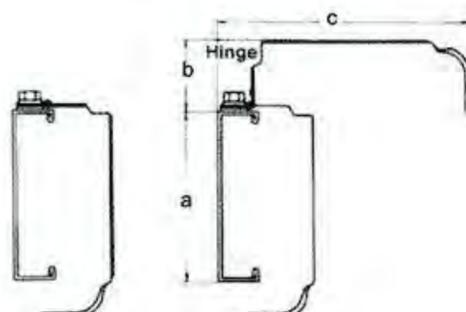
**Procedure** First isolate power supply, push back clips and open lid exposing the trolley, next loosen the two top wheel nuts and slide the axles down, you may now lift the trolley out of the track.

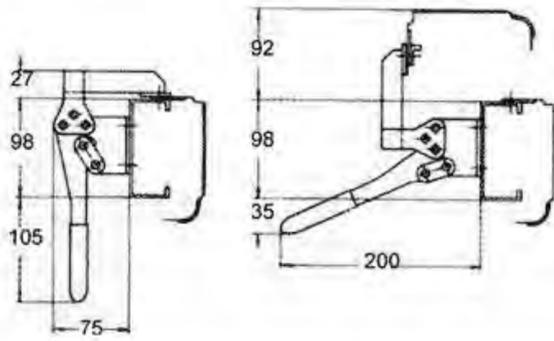
**Installing Trolley** First place a small sheet of cardboard or such like on front of copper bars, place the trolley on the lower track and push inwards, then slide axles upwards into upper track. Tighten wheel axle nuts, you may now push the trolley either to the right or left and remove the cardboard sheet, check movement of trolley and brushes. Close lid and insert clips.



| Profile | 1   | 2   | 3   | 4  |
|---------|-----|-----|-----|----|
| a       | 90  | 98  | 132 | -  |
| b       | 35  | 40  | 40  | 40 |
| c       | 135 | 161 | 195 | -  |

Measurement in mm





#### Quick release section AUSV

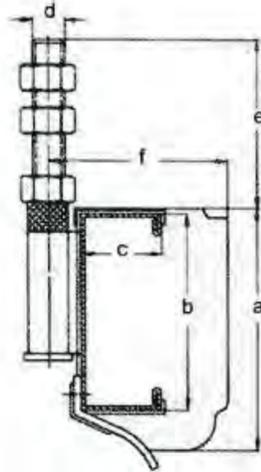
This section is 350 mm in length but installed in a normal 4.5 Mtr section. Its design is for quick insertion and removal of collector trolley. **Procedure** First isolate power supply, unfasten clips, pull lever, open cover complete with piece of top running track, move trolley into open position and lift out. To replace, first place a small sheet of cardboard over copper bars, place trolley in position and move trolley to left or right. Remove cardboard and close lid, refasten clips.

#### Rubber gasket (dust proof)

This system is used in areas where dust and powder may enter system and cause problems. The material is Neoprene and the suspension hangers are fixed to the housing and cannot be moved. The trolley is a special type which opens the gasket.

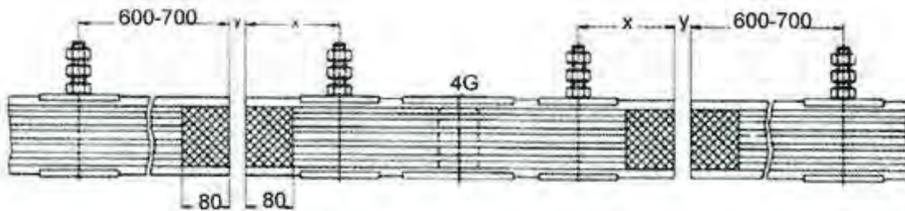
|   | 1   | 2     | 3     | 4    |
|---|-----|-------|-------|------|
| a | 111 | 120,5 | 154,5 | -    |
| b | 90  | 98    | 132   | -    |
| c | 22  | 40    | 40    | 40   |
| d | 16  | 16    | 16    | 16   |
| e | 85  | 85    | 85    | 85   |
| f | 67  | 89,5  | 89,5  | 89,5 |

Measurement in mm



#### Transfer Section

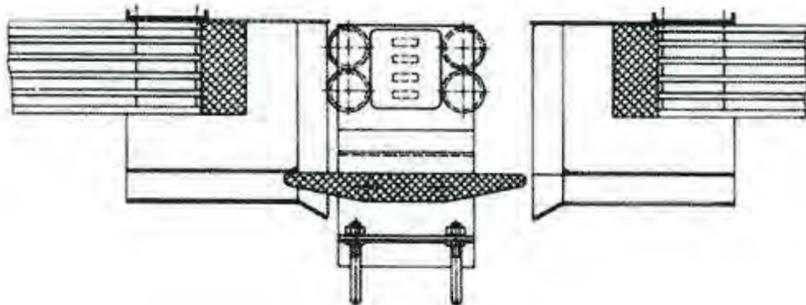
This section is for moving equipment from one gantry to another. Please note special transfer collector trolleys are used.



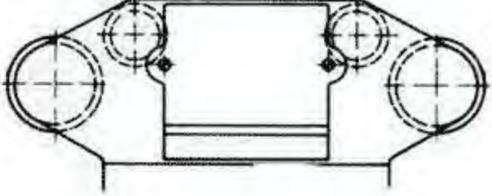
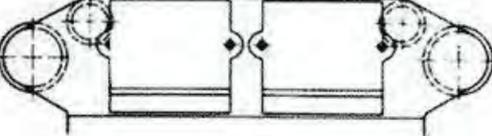
X = Suspension hangers distance must be between 600 - 700 mm  
 Y = On straight systems gap max. 30 mm  
 Y = For curved systems gap max. 5 mm  
 AG = Line Feed-In

#### Bell mouth sections

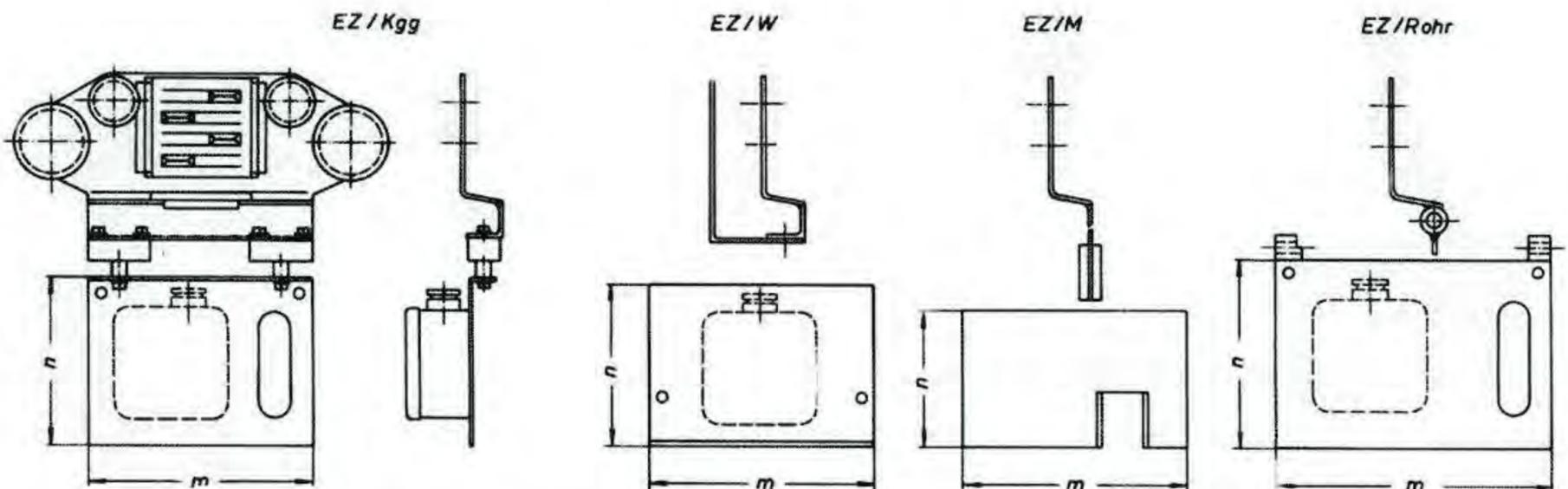
These sections are for systems where power may only be required in certain areas. The collector trolley has a special base plate which is fitted to the moving part, it supports and guides the trolley in and out of bell mouth power sections. Please note there must be 10 - 15 mm free movement between the base plate and trolley support bracket.



# Collector trolley

| Design   | Type | Capacity | No. of brush holders |
|--|------|----------|----------------------|
|   | LGB  | 25 A     | 1                    |
|  | LGCM | 40 A     | 1                    |
|  | LGC  | 50 A     | 2                    |
|  | LGR  | 80 A     | 2                    |

## Base plate fixings examples



| Measurement and types of baseplates |        |     |      |     |      |     |         |     |
|-------------------------------------|--------|-----|------|-----|------|-----|---------|-----|
| Type                                | EZ/Kgg |     | EZ/W |     | EZ/M |     | EZ/Rohr |     |
|                                     | m      | n   | m    | n   | m    | n   | m       | n   |
| LGB u. LGCM 4/1                     | 180    | 135 | 180  | 130 | 180  | 110 | 220     | 150 |
| LGB u. LGCM 4/2                     | 180    | 135 | 180  | 130 | 180  | 110 | 220     | 150 |
| LGB u. LGCM 6/3                     | 180    | 185 | 180  | 185 | 180  | 110 | 220     | 185 |

**EZ/KGG** This plate is fitted with ball and socket joints at the base of collector normal type if no load is required to be carried.

**EZ/W** Base plate is secured to the collector. This type is used if no place below the track or if track is fastened to a wall or to machinery.

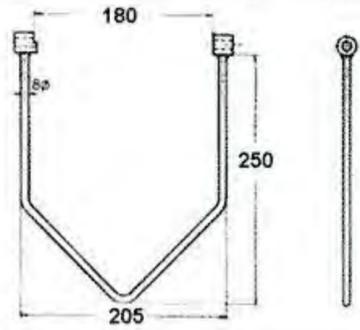
**EZ/M** This base plate is welded to collector but hangs below and is used to move to trolley and secure the cables from the collector. Maximum length of cable is 2.0 Mts.

**EZ/Rohr** This base plate has welded hinges fitted to collector. This type is used for carrying weight for example small tools or to support on the base plate circuit breakers, fuses and plug and socket attachments.

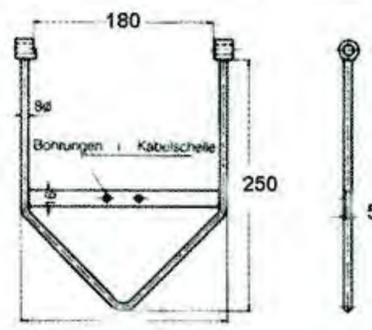
**For the textile industry we developed special collector trolleys, they are used to feed in laying and cutting machines, its special advantage is the very easy movement of trolley in track.**

# Bask plate and bow

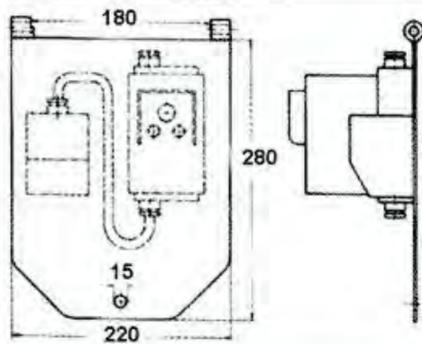
MP 01051-1



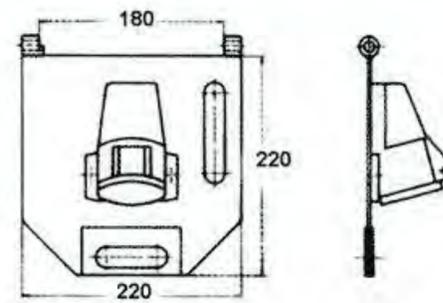
MP 01051-12



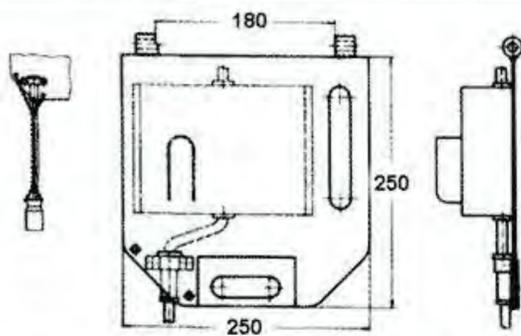
MP 01051-3



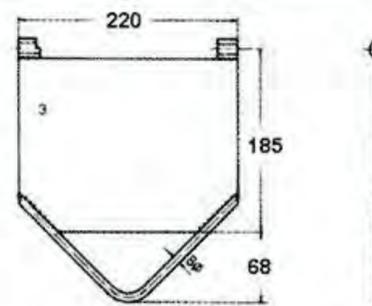
MP 01051-13



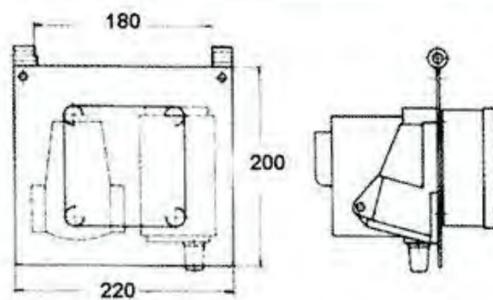
MP 01051-5



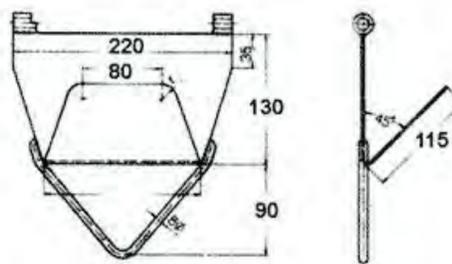
MP 01051-14



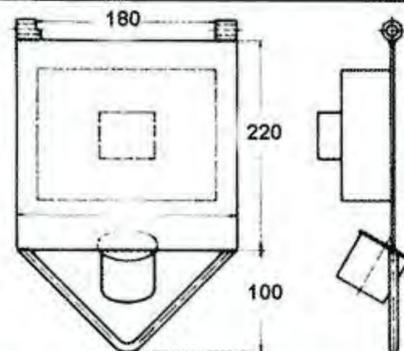
MP 01051-7



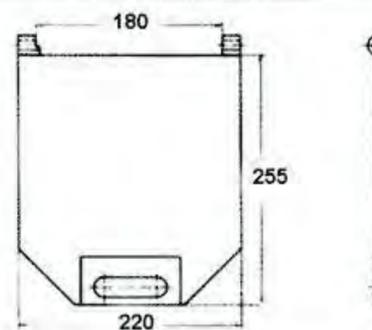
MP 01051-16



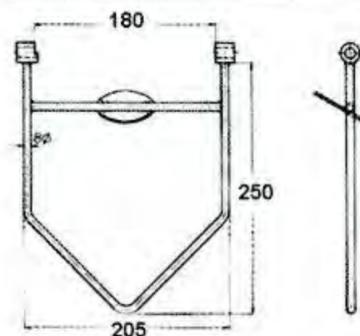
MP 01051-8



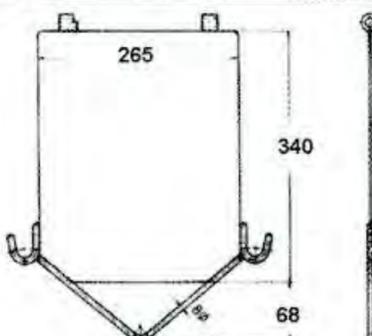
MP 01051-17



MP 01051-11



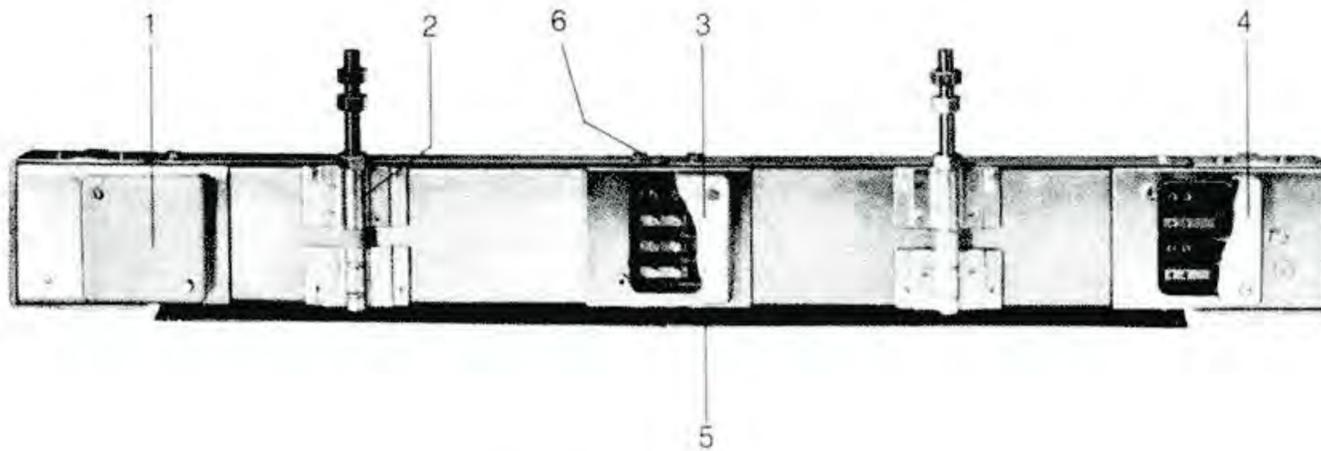
MP 01051-18



# Installation instruction

Metal conductor system SG

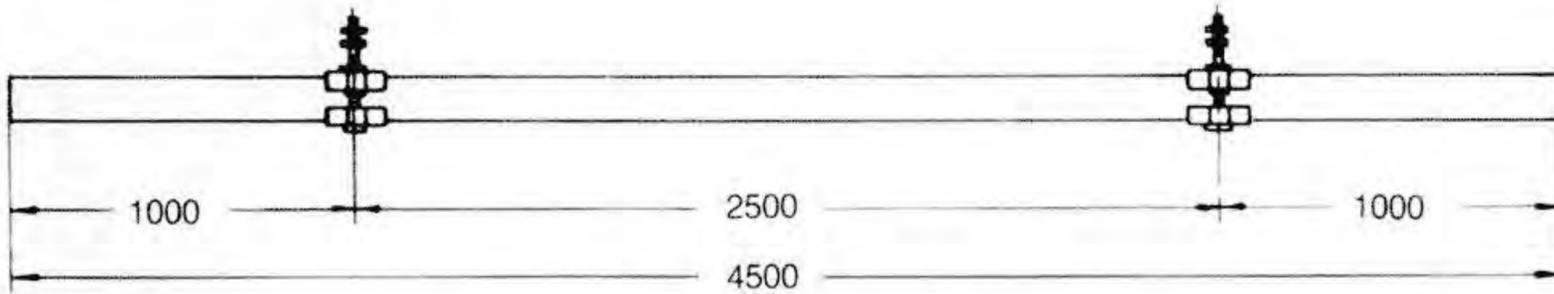
## Parts list



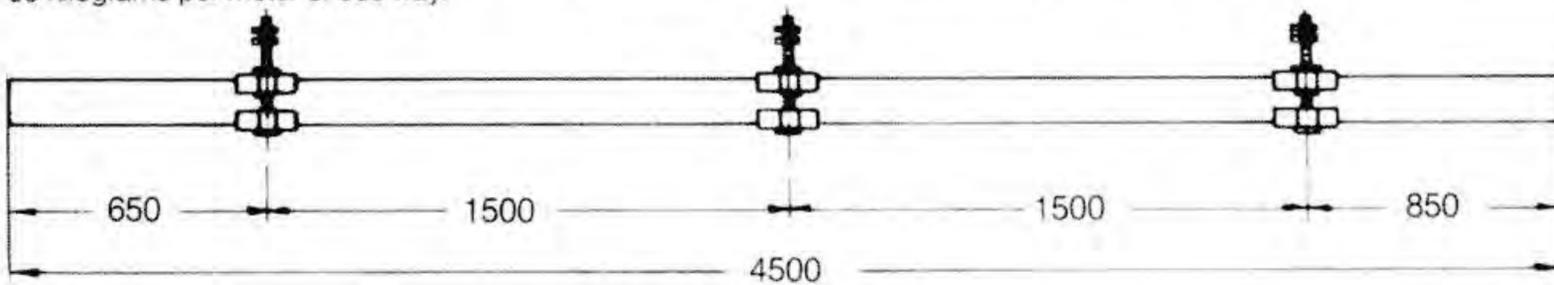
### Components:

- |  |   |
|--|---|
| 1 = End box without power Feed-In                      | 4 = End Feed-In box with terminals                          |
| 2 = Bracket  | 5 = Flat head screw, used against underside of C-frame only |
| 3 = Joint plate for electrical and mechanical splicing | 6 = Pawl screw, used against top of C-frame only            |

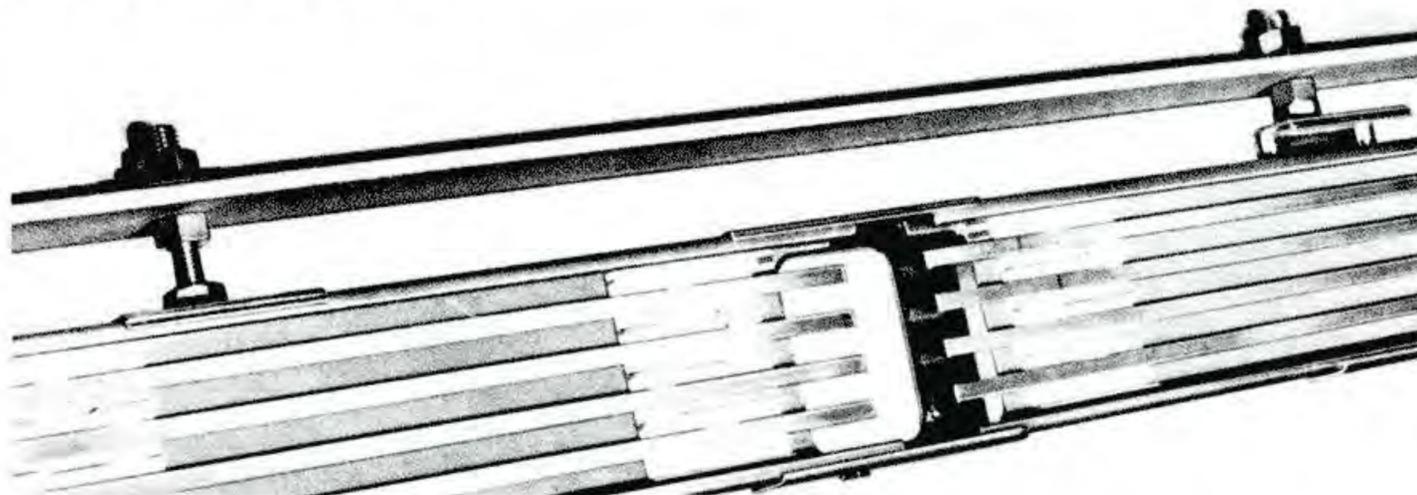
## Location of supports



3 supporting brackets are to be used on a standard leg of 4500 mm length, if there is an additional mechanical load of up to 50 kilograms per meter of bus way.

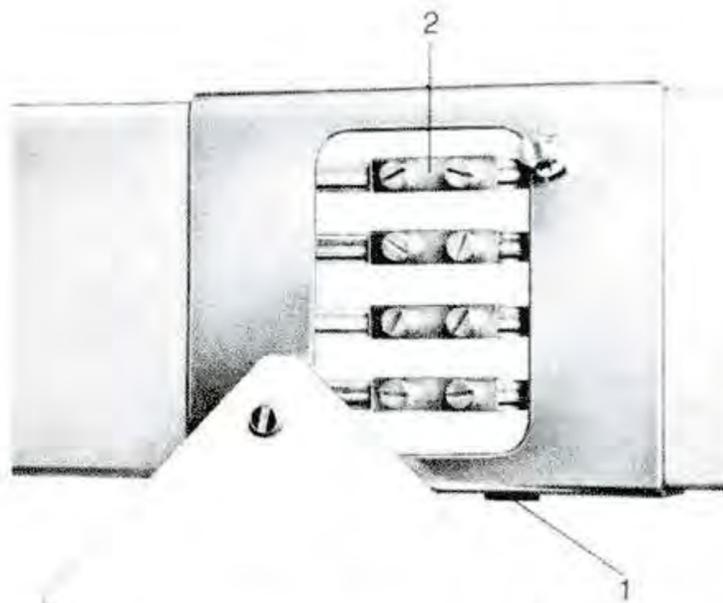


## Installation of the Bus Way



C-shaped trough ends should be joined snugly and wheel bearing surfaces aligned at the joints. Do not displace copper BARS.

## Connection of housing and copper bars



Fasten joint plate to lower side of C-frame with flat head screws (1). Slip one half of connecting sleeves (2) over each bus bar end and tighten.

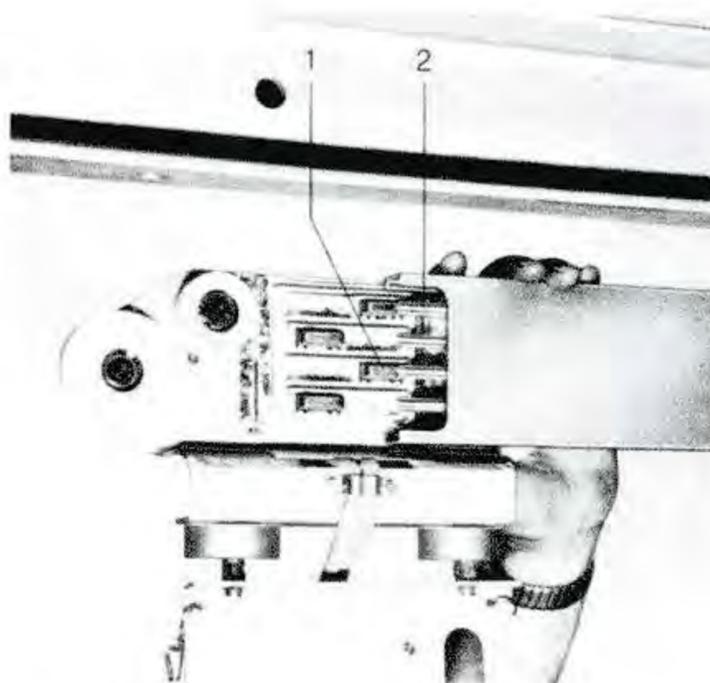
## Installing Sheet Metal Cover



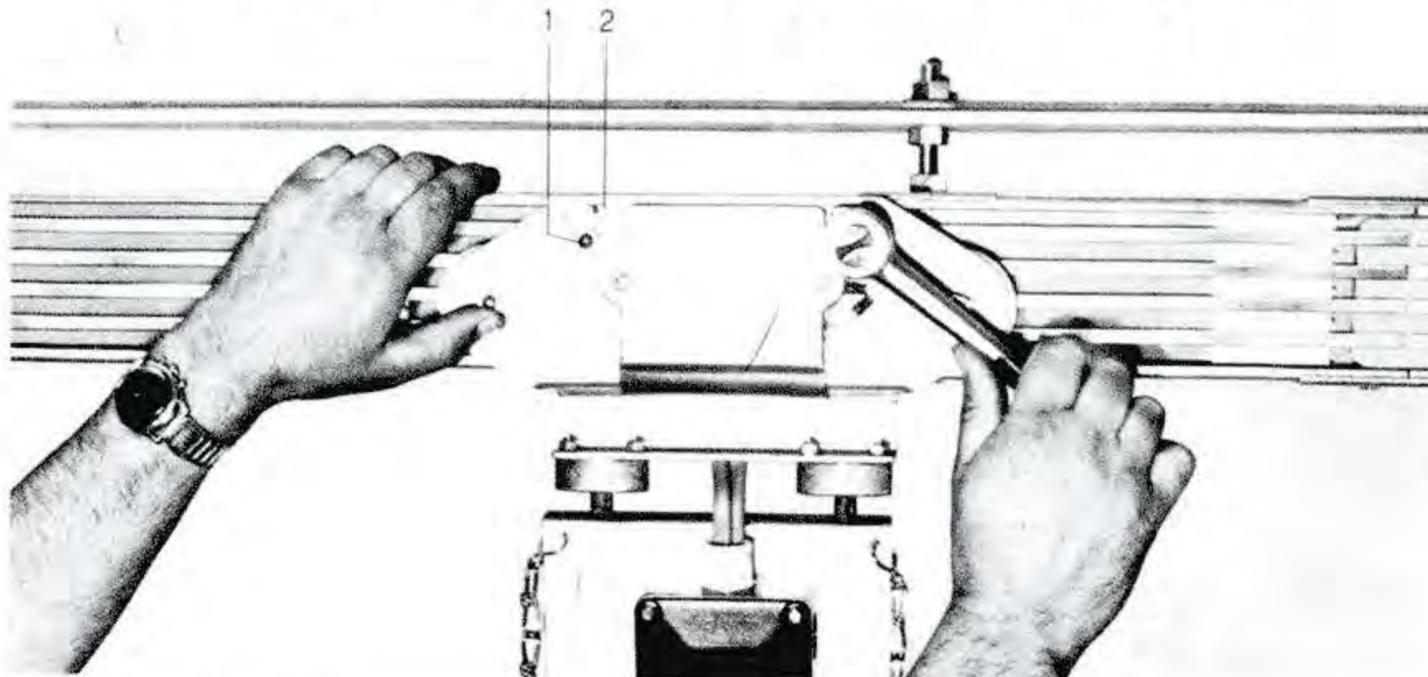
Cover is fastened with pawl screws (1) to C-frame's top side. Two lengths of cover are coupled together at the joint with the help of a latch bolt (2). To secure its pin, center part of it is bent outward slightly.

## Inserting Trolley Collector at end of bus bar track

Trolley collector can be inserted at Bus Bar end. Current collector has been tested both mechanically and electrically. When inserting collector, please make sure that all its carbon contact shoes bear against the top of the bars (2).



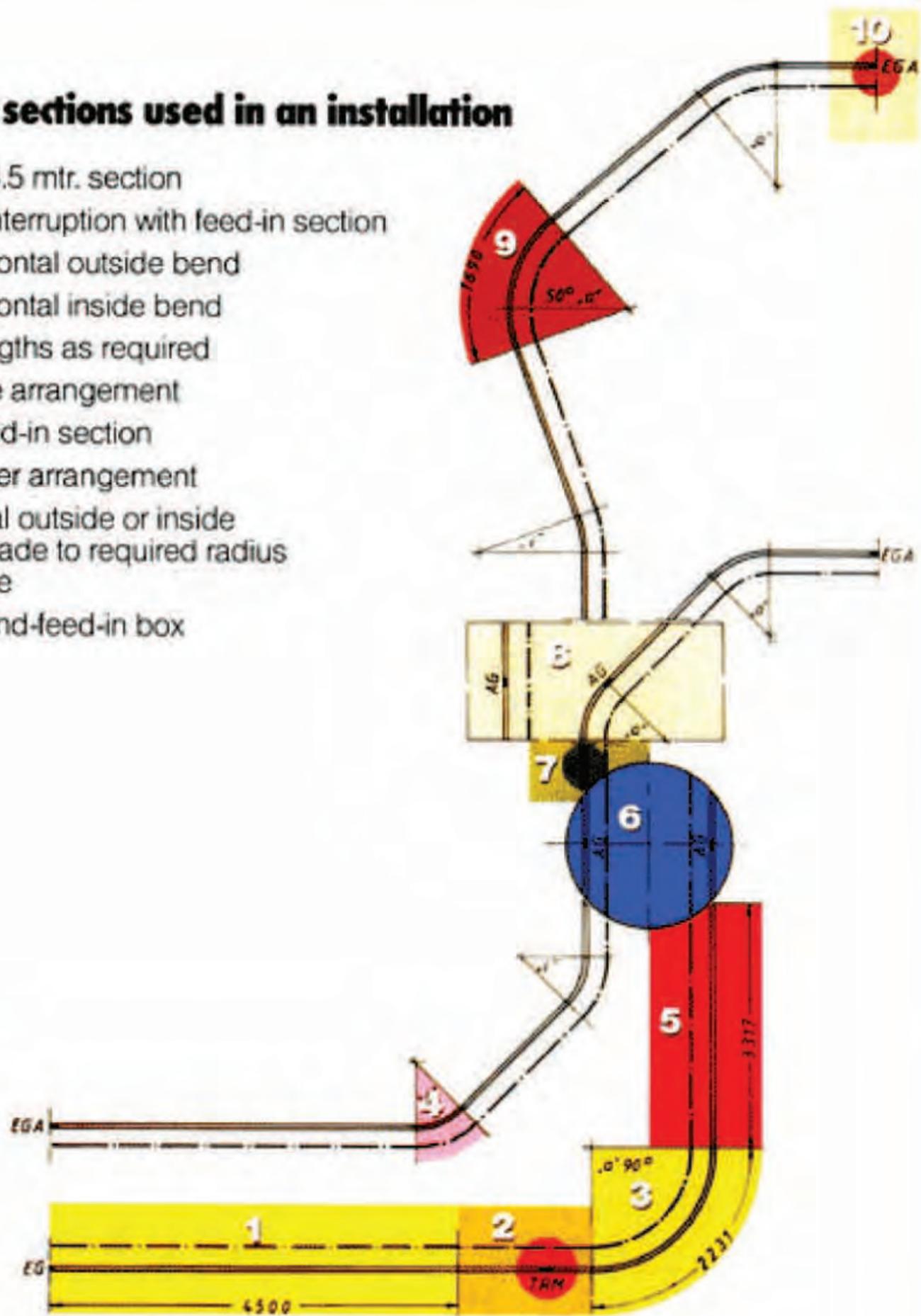
## Inserting Trolley Collector anywhere in the system



Trolley collector can be inserted into the system anywhere (**Warning isolate power**). First, sheet metal cover is taken off. Then, upper trolley wheels (1) are loosened and set by means of klongatted holes (2).

## Different sections used in an installation

- ① Normal 4.5 mtr. section
- ② TRM = interruption with feed-in section
- ③ 90° horizontal outside bend
- ④ 45° horizontal inside bend
- ⑤ Short lengths as required
- ⑥ Turntable arrangement
- ⑦ AG = feed-in section
- ⑧ Cross over arrangement
- ⑨ Horizontal outside or inside bends made to required radius and angle
- ⑩ EGA = end-feed-in box



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