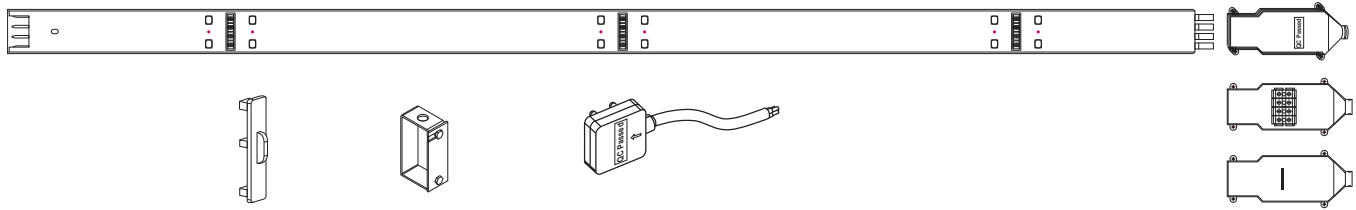


LBA-40

Plug-in busbar
trunking for lighting &
Light machine load



Adex LBA Busbar trunking



Number of conductors	2 pole + PE	3 pole + PE	3 pole + N + PE	Accessories for dust and damp protection for a dust and damp protected installation, to IP55 add the accessories shown in the column below
Trunking elements				

Description	Unit reference	Unit reference	Unit reference	Unit reference
Straight lengths length 3 m	In 20A	LBA-20A203	LBA-20A303	LBA-20EA403
	In 40A	LBA-40A203	LBA-40A303	LBA-40EA403
Feed unit/end cover With 6-10 mm ² terminal capacity	LBA-40A2	LBA-40A4	LBA-40AA2	LBA-40MZ1 (connection cover)

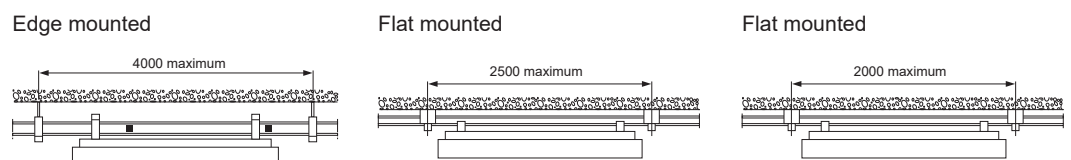
Plug-in tap-off units 2 pole +PE

10A moulded unit with 0.8 m cable Type H05-WF 3 x 1 mm ² without phase selection	LBC-10CS201			Cannot be dust and damp protected	
10A moulded unit 0.8 m cable cable type H05-WF 3 x 1 mm ² with phase section	2 m cable	LBC-10CC11	LBC-10CC221	LBC-10CC212	LBC-10MZ4 (tap-off seal)
		LBC-10CC212	LBC-10CC222	LBC-10CC212	LBC-10MZ4 (tap-off seal)
16A unfused unit with 2.5 mm ² terminal capacity with phase selection	LBC-16C210	LBC-16C220	LBC-16CB210	LBC-16MZ5 (tap-off seal)	
16A unit for 8.5 x 31.5 fuses with 2.5 mm ² terminal capacity with phase selection	LBC-16CF210	LBC-16C220	LBC-16CF210	LBC-16MZ5 (tap-off seal)	

Intermediate units (optional)

Intermediate terminal box with 6-10 mm ² terminal capacity	LB-40L4	LB-40L4	LBC-40SL4	LBC-40MZ1 (connection)
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Fixing brackets

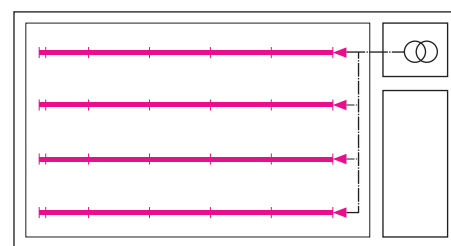


Busbar trunking for light load distribution

for use industrial , commercial and agricultural buildings
 20-40A, 500V
 Degree of protection IP55
 tap-offs 10A and 16A

Basic information for component selection

- The type of lighting fittings, small machines their number and disposition.
- The power supply, its characteristics and location
- The structure of the building (to establish the fixings to be used for the trunking).



Preliminary design

Taking into account the layout of the light fittings (Generally in the direction of the longest run).

Selecting the number of conductors

- The choice depends on:
- the supply voltage and type (single-phase or 3-phase)
 - the power rating required
 - the number of separately switched lighting runs.

The power requirement

depends on the rating of the lighting fittings (including ballast).

The type of trunking can then be selected:

Polarity	2 P + PE	3 P + PE	3 P + N + PE
Supply voltage V	220/240 Ph + N or Ph + Ph	220/240 3 Ph	380/440 3 Ph + N
Maximum power kW (cos φ 0.9)	LBA-20 20A 5	8.5	15
	LBA-40 40A 9	15	28
No. of separately switched lighting runs possible	1	1	1 to 3

● Check the voltage drop

Depending on the current carried by the trunking and the length of the run

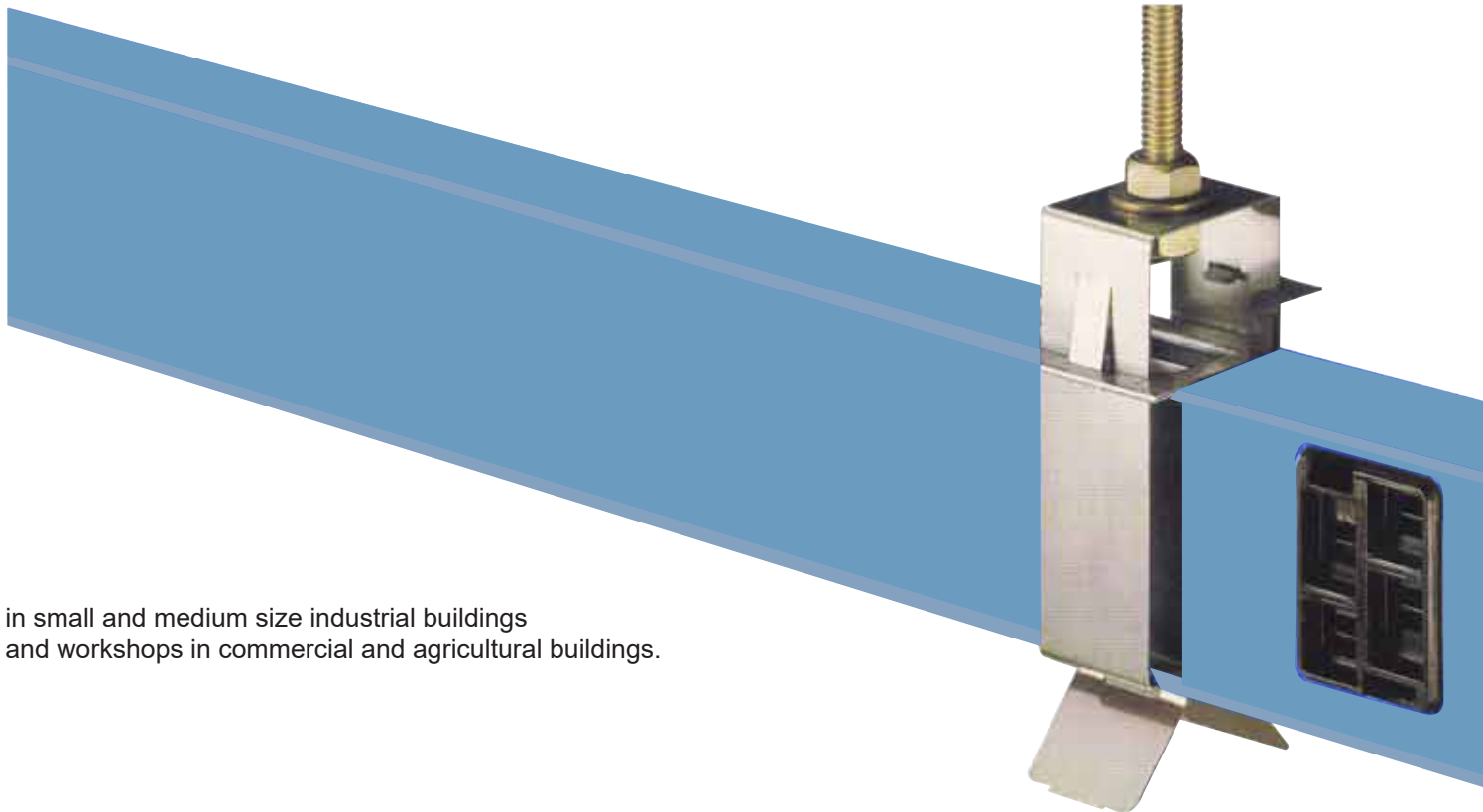
		LBA-20	LBA-40
Voltage drop V/100 m/A	2 P + PE	0.74	0.33
(distributed load cosφ 0.9)	3 P + PE and 3 p + N + PE	0.66	0.295

Selecting the fixing centres

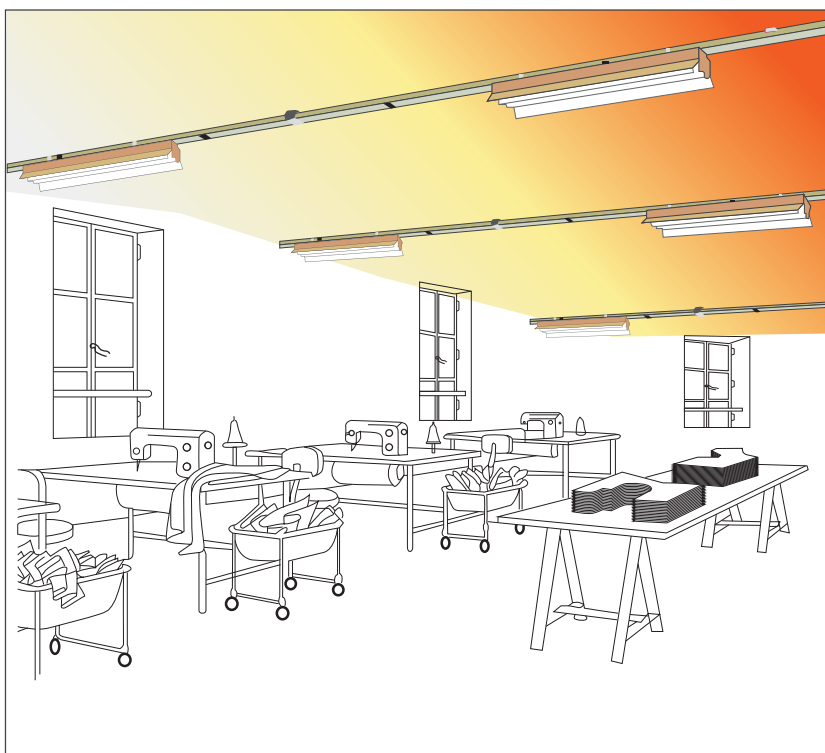
The choice of fixing centres depends on:

- the structure of the building
- the mounting position of the trunking, on edge (most common) or flat (ceiling mounted for maximum space saving)
- the weight and type of lighting fittings (luminaires)

LBA plug-in busbar trunking for lighting distribution



in small and medium size industrial buildings
and workshops in commercial and agricultural buildings.



Simplicity

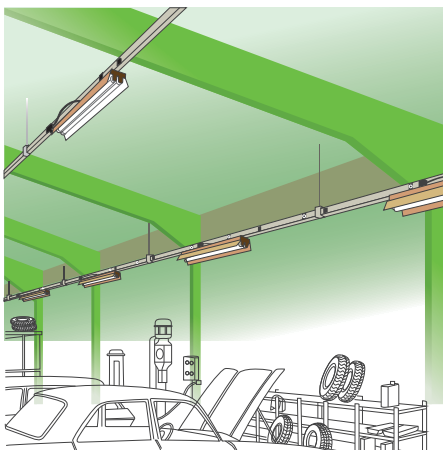
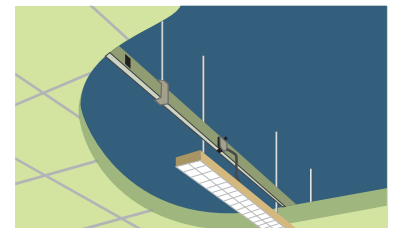
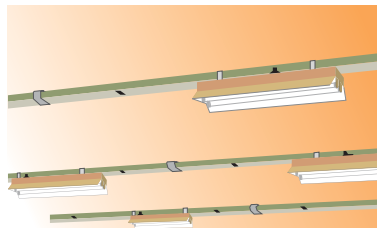
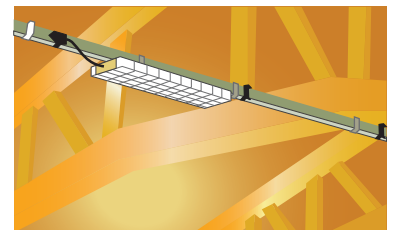
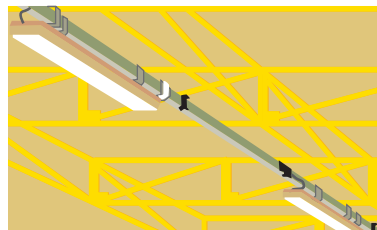
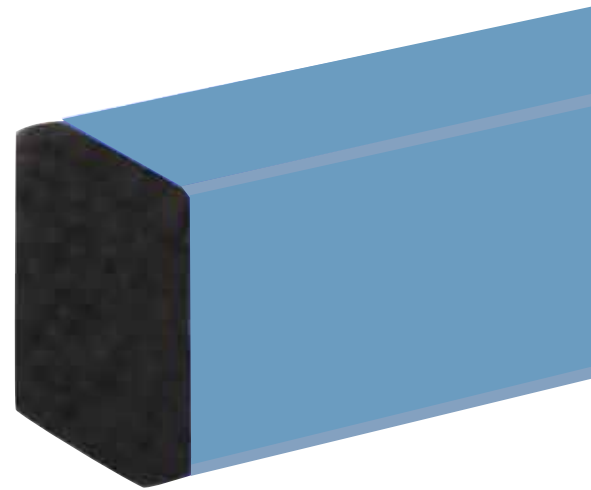
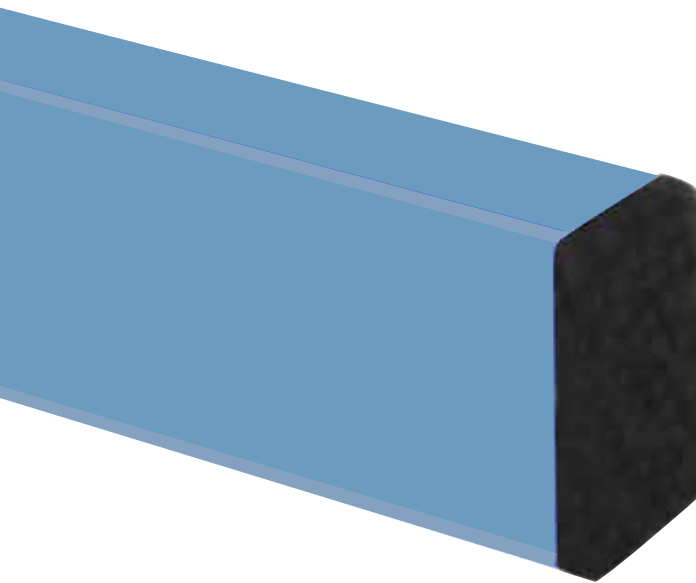
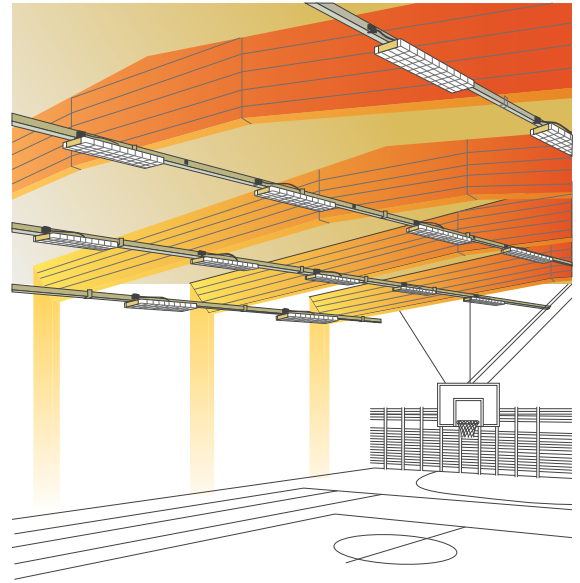
- 4 basic units
- 4 basic references
- 2, 3 or 4 pole trunking available
- Balanced three phase distribution using tap-offs with phase selection
- Fast, accurate estimates
- Assembly using slide-together joints.

Safety

- Construction conforms to IEC 61439-6
- Suitable for use in installations conforming to IEC 364 or IEE regulations
- Degree of protection IP 55 as standard. IP 55 by the use of accessories.

Economy

- Overall cost (material + labour) equivalent to cable
- Position of light fittings can be modified with power on
- Removal of lamps for maintenance without stopping production



Installation

Adapting the trunking to the building

Edge mounted

Trunking fixed to metal girders, to wood or concrete beams, in a false ceiling.

Fixing centres: 3 metres maximum.

At this distance the maximum distributed load is 10 kg, giving a maximum deflection of 8.5 mm.



Flat mounted

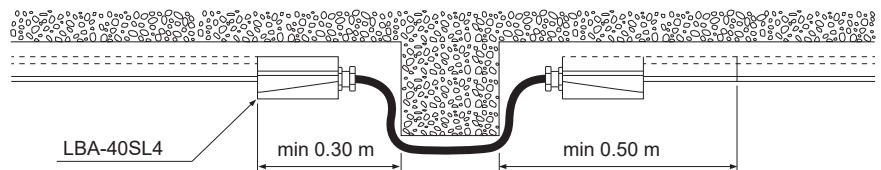
Trunking mounted directly against the roof or ceiling for space saving.

Fixing centres: 2.30m maximum.

At this distance the maximum distributed load is 10 kg, giving a maximum deflection of 4 mm.

Bridging between two trunking runs

In order to form a cable link between two runs of trunking separated by an obstruction (beam, ducting etc.) use the LBA-40 intermediate terminal box at the end of the first run and a LBA-40A feed unit for the second run.

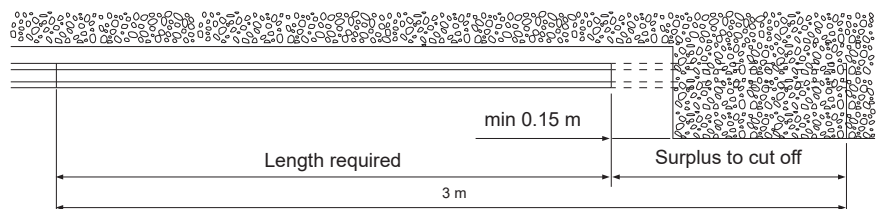


Cutting to length

The last trunking length of a run may be cut to any required length, if necessary (to bring the trunking close to a wall, for example).

The standard end cover ensures insulation of the conductors.

Note ! no further lengths may be added to the cut end of the trunking.



Installation procedure

Assembling and fixing the trunking

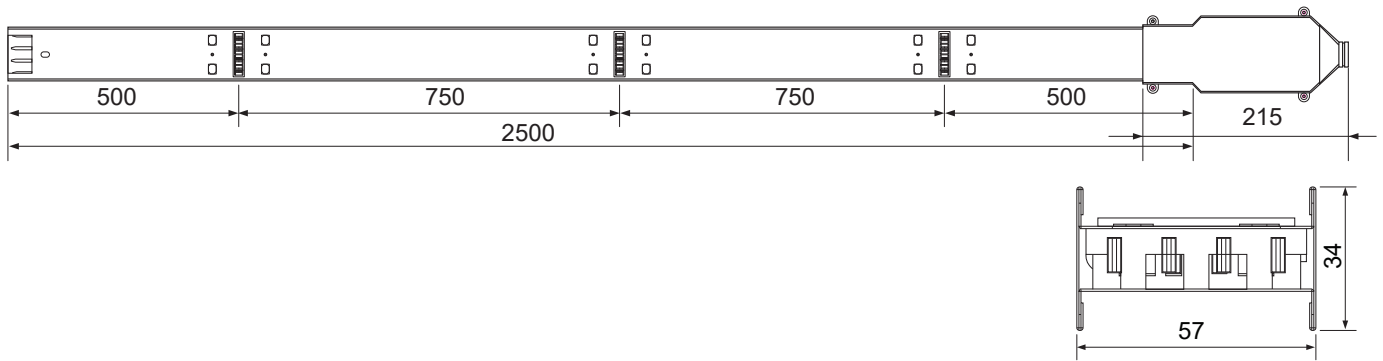
1. The straight lengths are clipped in to the fixing brackets.
2. Locking the trunking in position.
3. Simultaneous mechanical and electrical jointing.

Installing the lighting fittings

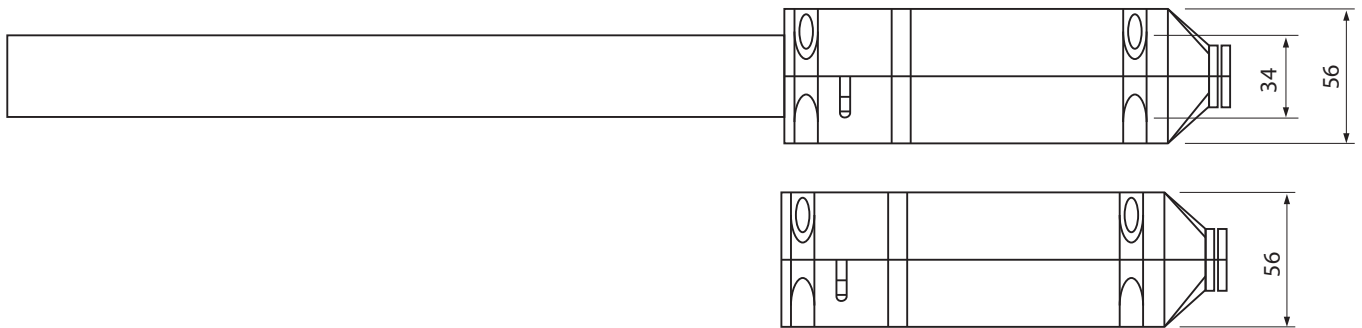
4. The fittings, complete with tap-off unit and suspension bracket are clipped in to place.
5. The electrical connection is made as easily as with a standard plug and socket.

Dimensions

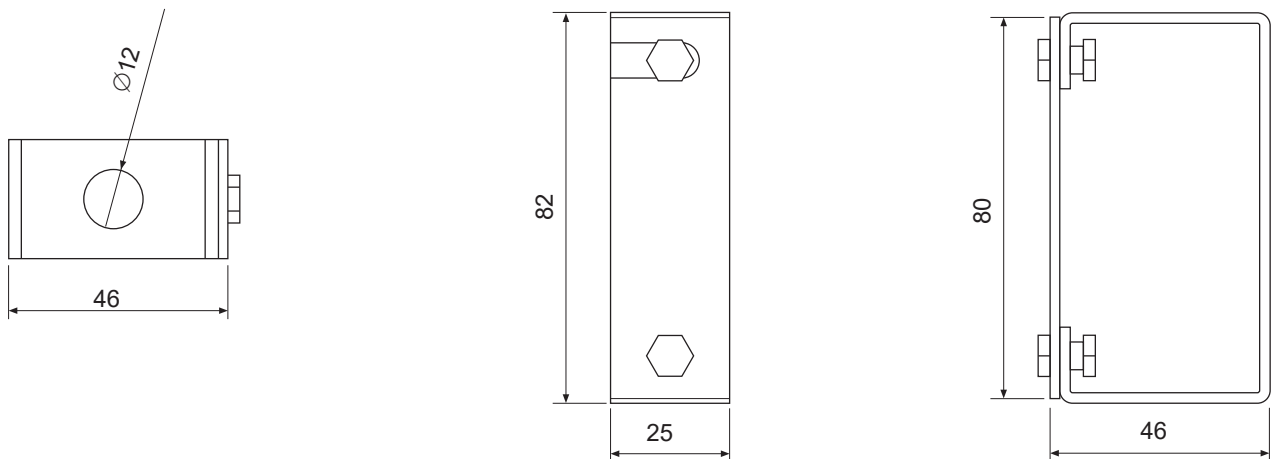
Straight lengths



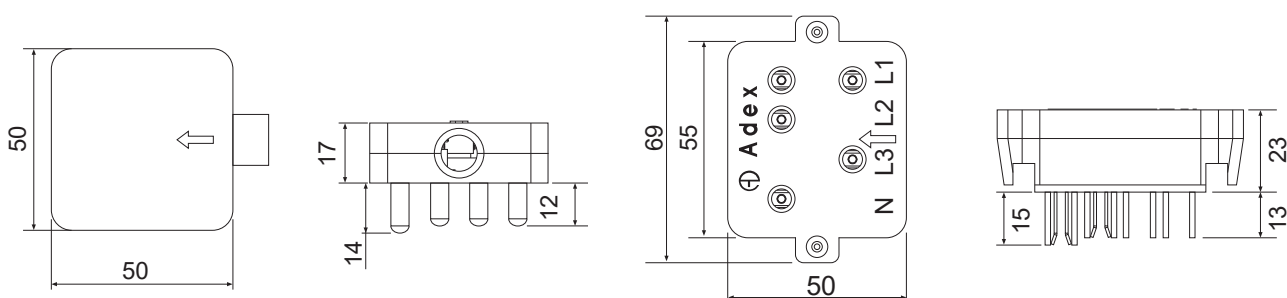
Feed units



Fixing brackets



Tap-off units





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