

To the new discharging system BASIX belong the series R47 discharging bar and the series ES47 power supply; they are designed for the active discharging of disruptive static charges which develop in production processes and for discharging moving surfaces.

Due to differences in the surface charge profiles on different materials, charges with both polarities are provided by the discharging bars. The corona section with its optimized geometrical configuration ensures ultimate discharging efficiency.

The advantages of the discharging system BASIX:

- ultimate discharge range and hence enhanced depth effect
- high active discharge power through patented isolated ground conductors
- high safety standards through passive discharging power with deactivated power supplies
- no health hazards from electric shocks when making contact with the tips
- 4 high voltage outputs
- stable 5 kV AC output voltage
- small dimensions
- easy installation

## Technical Information



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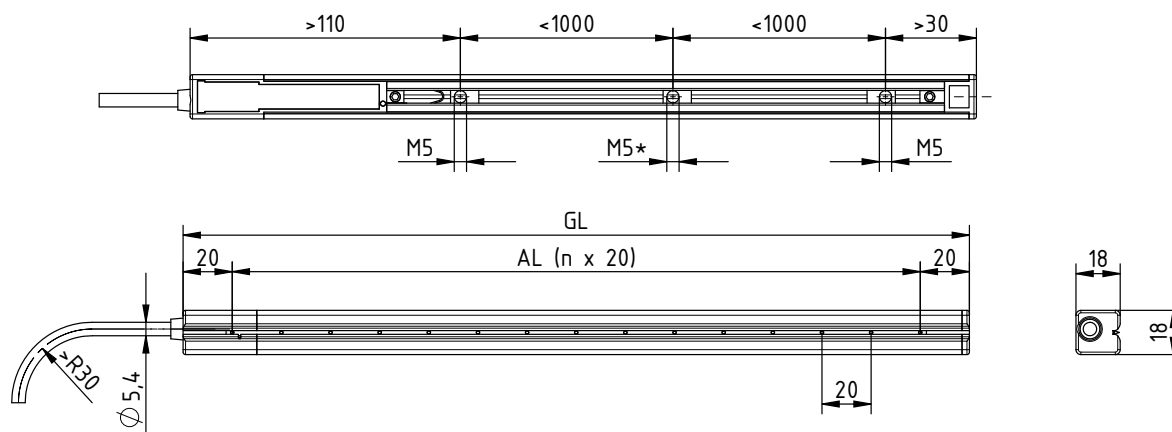
### Discharging System BASIX

#### Series R47 Discharging Bars and Series ES47 Power Supplies for AC Operation

TI-en-2074-1807



## Dimensions R47 discharging bar



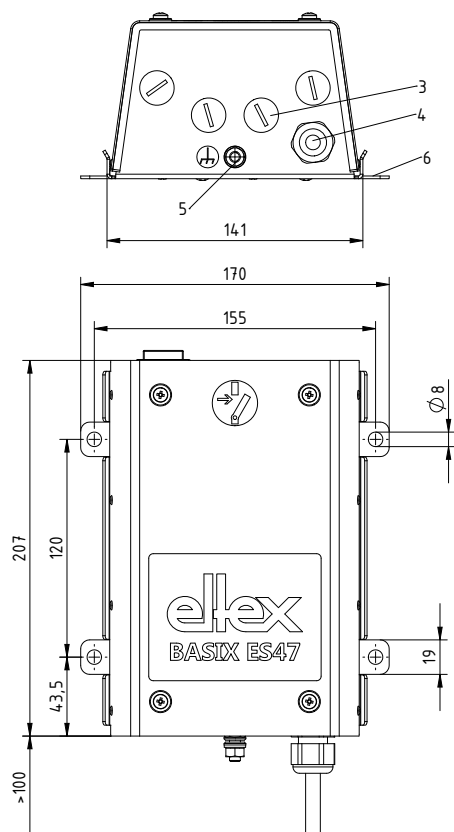
*AL = active length 1860 mm max. GL = total length \*M5 depending on length*

number of sliding nuts M5: AL of 120 - 1000 mm: 2 pieces

AL of 1020 - 1860 mm: 3 pieces

max. allowable distance between the sliding nuts: 1000 mm

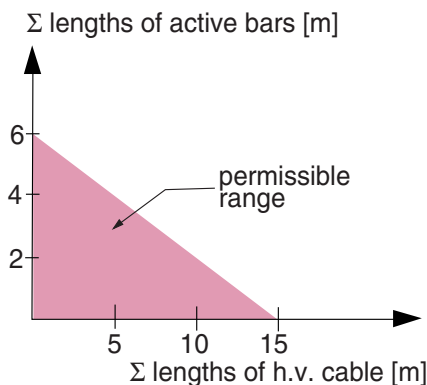
## Dimensions ES47 power supply



- 1 ON/OFF-switch (ON = light on)
- 2 fuse
- 3 high voltage connectors
- 4 mains cable
- 5 ground connection
- 6 fixing clamp

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Z113233cy



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### Loading capacity of the power supply as factor of bar length and length of high voltage cable

Both the lengths of the high voltage cable and of the active bars are limited. The shielded high voltage cables cause a capacitive load on the transformer inside the power supply. The maximum loading capacity is a result of the function of the total active bar length and the total length of all on power supply connected high voltage cables. The illustration opposite demonstrates this principle for the discharging bars R47.

## Technical specifications

<b>R47 Discharging Bar</b>	
Electrode (bar) element	glass-fibre-reinforced plastic GRP
Carrier section	aluminium
Encapsulation material	stainless steel
Installation	via movable sliding nuts M5 in the carrier section
Ambient operating temperature	0...+70°C (+32...+158°F)
Ambient humidity	max. 70% RH, non-dewing
Dimensions	profile: 18 x 18 mm, active length 1,860 mm maximum
Weight	approx. 0.5 kg/m
Operating voltage	max. 5 kV AC, 50/60 Hz
High voltage supply	via Eltex series ES47 power supplies
High voltage connection	high voltage cable encapsulated, axial lead-out
Short-circuit current	0.5 mA
Contact protection	according to EN 61140
<b>ES47 Power Supply</b>	
Supply voltage	230 V AC 50/60 Hz; 115 V AC 60 Hz
Power input	25 VA maximum
Output voltage	5 kV AC
Loading capacity	depending on length of bar and length of high voltage cable
Output current	max. 2.4 mA
Ambient operating temperature	0...+50°C (+32...+122°F)
Storage temperature	-20...+80°C (-4...+176°F)
Ambient humidity	max. 80% r.h., non-dewing
Mains power cable	approx. 2.0 meters with earthing-pin plug, national version
Fuse (primary circuit)	see name plate
Ground link	grounding connection on housing
High voltage connections	4 pieces
Enclosure	sheet metal steel with wall bracket
Protection class	IP 54
Dimensions	207 x 170 x 87 mm (H x W x D) (see Fig.)
Weight	approx. 3.6 k
UL Approval	File No. E227156

as shown on  
appliance  
marking:



# Eltex offices and agencies

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