

# Technical data

**CODE:**

1820220; 1820221

**PRODUCT:**

ELECTRONIC TRANSFORMER HANSEN  
EVG 20/2SL; EVG 20/2SLR

**NOTE:**

TECHNICAL DATA

**IMAGE:**



**LAST UPDATE:**

10/2021

# ELECTRONIC TRANSFORMER EVG 20/2SL; 20/2SLR

## Type:

Electronic transformer for high-voltage luminous discharge tubes according to EN 50107  
Suitable for indoor and outdoor systems. Limited suitability for flash operation.

**Weight:** 0,28 kg

## Radio interference suppression:

According to VDE 0875, Part 2A1 (EN 55015)

## Temperatures:

Ambient temperature range: -25 to +55°C  
Temperature limit: +70°C  
(Max. ambient temp. that the EVG is able to withstand for a short period of time without being destroyed)

## Housing:

Hard PVC shell  
Standard colour: white  
Sealing compound: polyurethane (black)

## Class of protection: I

**Degree of protection:** IP67

## PROTECTIVE EQUIPMENT

**Safety fuse:** Integrated 1 A melting fuse offering protection against internal short circuits

**Earth leakage trip:** (acc. to EN 50107) integrated in the transformer

**Open circuit protection:** (acc. to EN 50107) integrated in the transformer

## CAUTION:

THE INSTALLATION INSTRUCTIONS MUST BE OBSERVED WHEN USING THE TRANSFORMER!

## Housing dimensions



**Housing colour:**  
white

**Dimensions:**  
160 x 29 x 24 mm

**Packaging case:** 1

**Order no. 1820220 [EVG 20/1SL]**  
**Order no. 1820221 [EVG 20/1SLR]**

**Mains cable:**  
H03VV-F, 3x0.75

**High voltage cable:**  
PVC  
4.0 mm (diameter)



## PRIMARY DATA

**Mains voltage:** 230 V, ± 10%, 50/60 Hz

**Current consumption:** Depends on the connected tube load; max. 0,25 A; cos phi 0,95

## SECONDARY DATA

2000 V with 20 mA constant current, symmetrical alternating current, load-depend operating frequency, 16-20 kHz, earthed secondary winding.

Internal high-voltage shutdown under fault conditions (e.g. in case of tube breakage).

## 20/2:

Suitable for blue discharge tubes. Only partly suitable for red discharge tubes due to an occasional jelly bean effect.

## 20/2R (red discharge):

No jelly beaming, suitable for red discharge tubes only.

## CONNECTABLE TUBE LENGTHS (in meters):

Blue discharge (outdoor)						
Diameter	10	12	15	18	20	22
1 Syst.	2,3	2,8	3,5	4,1	4,4	4,8
2 Syst.	1,9	2,3	2,9	3,4	3,6	4,0
3 Syst.	1,5	1,8	2,2	2,6	2,8	3,1
4 Syst.	1,0	1,3	1,6	1,9	2,1	2,2
5 Syst.	0,6	0,8	1,0	1,2	1,3	1,4
Blue discharge (indoor)						
Diameter	10	12	15	18	20	22
1 Syst.	2,8	3,5	4,2	5,0	5,3	5,8
2 Syst.	2,4	3,0	3,6	4,3	4,6	5,0
3 Syst.	2,0	2,5	3,0	3,5	3,8	4,1
4 Syst.	1,6	2,0	2,4	2,8	3,0	3,3
5 Syst.	1,2	1,5	1,8	2,1	2,3	2,5
Red discharge						
Diameter	10	12	15	18	20	22
1 Syst.	1,5	1,8	2,2	2,7	2,9	3,0
2 Syst.	1,2	1,5	1,8	2,2	2,4	2,5
3 Syst.	0,9	1,1	1,4	1,7	1,8	2,0
4 Syst.	0,7	0,8	1,0	1,2	1,3	1,4
5 Syst.	0,4	0,5	0,6	0,8	0,8	0,9

The values given represent the maximum connectable tube lengths which must not be exceeded. Shorter tube lengths, however, may be connected without any restrictions. The tube lengths are calculated on the basis of the 'Filling Pressure Recommendations for Fluorescent Tubes' published by the German *Fachverband Lichtwerbung*.

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