

SINCE 1945



GREENLine

Think green, save the planet

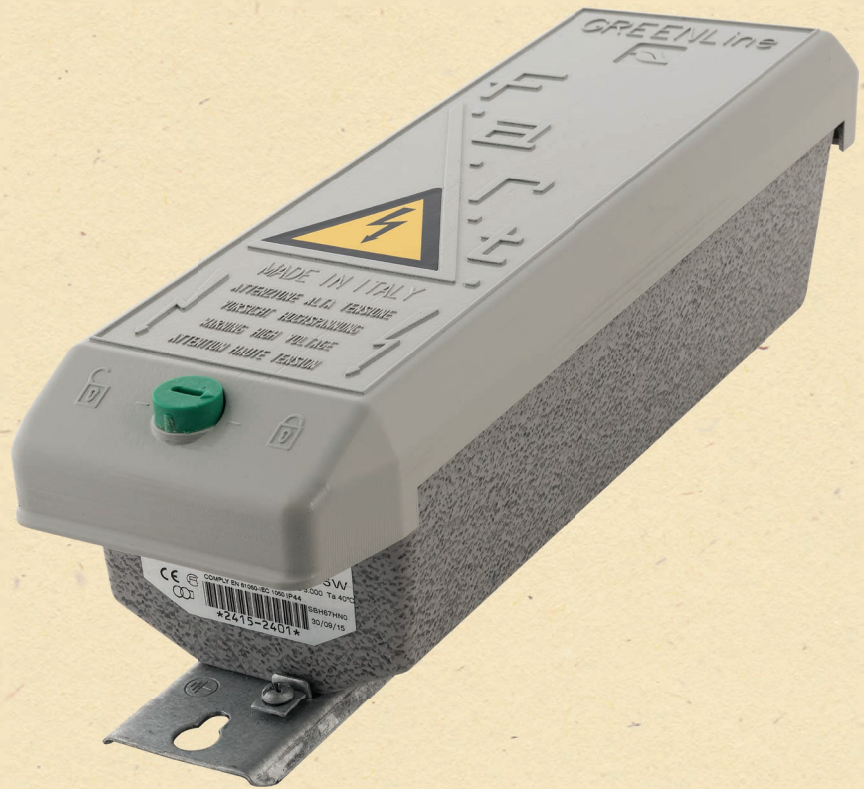
GREENLine

The new transformers series conceived by our laboratories to meet specific market demand with a GO GREEN vision.

In a world increasingly attentive to energy savings and reductions in energy consumption, F.A.R.T. ticks all the boxes with a highly efficient transformer, while guaranteeing lower environmental pollution. All this without affecting the reliability of our products.







Only suitable for tubes filled with an Argon/Neon mixture and with a diameter of 10 mm or more.

All the GREENLine models can only be used with the new inner protection devices and can be dimmed using the specific control apparatus currently available on the market only with outer protection.





Characteristic and advantage

Characteristic	Advantage	Benefits
Greater loading capacity than traditional transformers	Savings on the cost of transformers. Fewer transformers or less powerful transformers can be bought for the same metres of lighting	
Reduced energy absorption	Daily savings on electricity costs	
Longer life	Less maintenance Less waste to dispose of	 
Certified disposal	Real respect for the environment	
Lower CO2 emissions	Real respect for the environment	

In-field testing

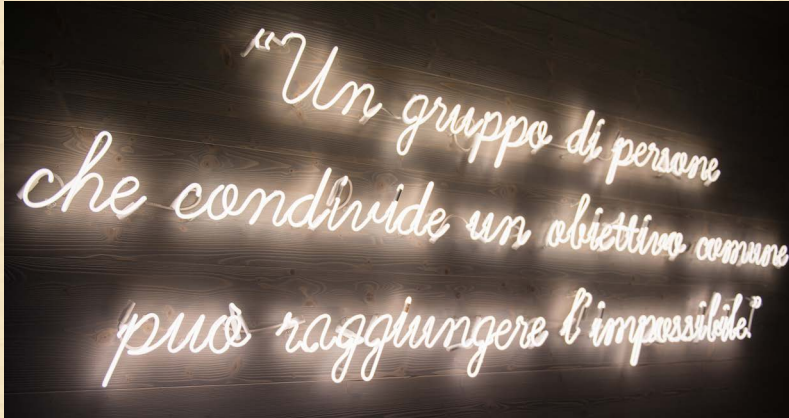
Application and consumption comparison for traditional transformers and GREENLine

example of technical data for sign

- 6 letters open front
- Length of tubes 109 m
- Diameter of tubes 20 mm
- Cold cathode lamps filled 50Ar/50Ne
- Total area 45 sqm

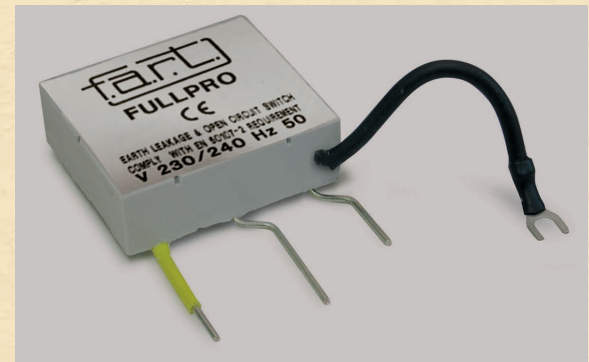
Traditionals Series 50mA	GREENLine Same Series 50mA	GREENLine Series 37mA
0%	-30%	-50%
1.550W 35W/Sqm	1.070W 24W/Sqm	800W 18W/Sqm
2 Trasformers 8.000/50	2 Trasformers 6.000/50	2 Trasformers 6.000/37
1 Trasformer 7.000/50	1 Trasformer 5.000/50	1 Trasformer 5.000/37
4 Trasformers 6.000/50	4 Trasformers 4.000/50	4 Trasformers 4.000/37
1 Trasformer 5.000/50	1 Trasformer 3.000/50	1 Trasformer 3.000/37

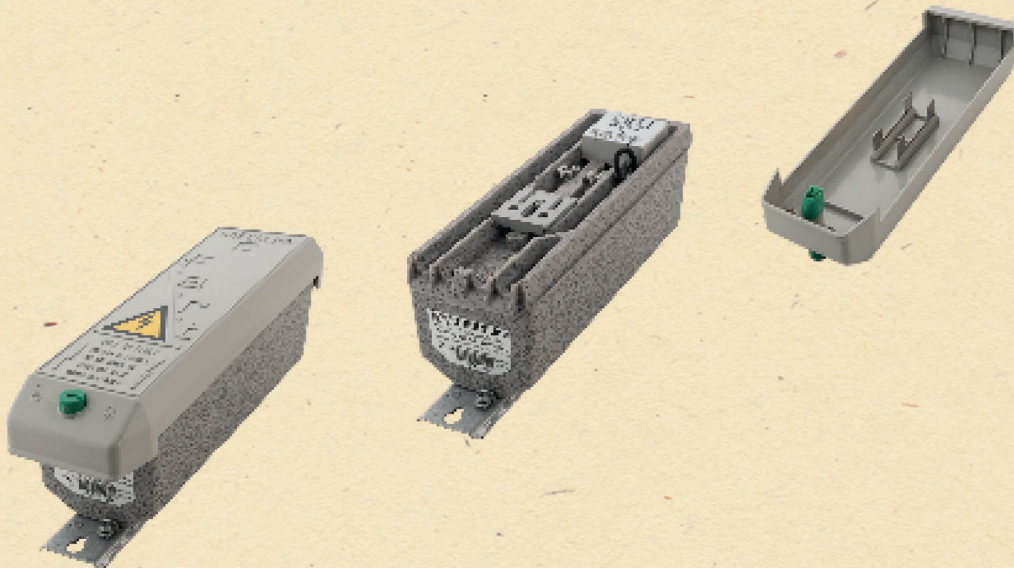
New protections devices



For this special GREENLine series, 3 new protections have been specifically developed to be used solely with these particular transformers. Two for inner use and one for outer use, in compliance with European standard EN 50107-2.

For inner use	For outer use
MIDPRO	OUTPRO
Protect against: <ul style="list-style-type: none"> • Earth leakage • Trasformer overheating* 	Protect against: <ul style="list-style-type: none"> • Earth leakage
FULLPRO	
Protect against: <ul style="list-style-type: none"> • Earth leakage • Trasformer overheating* • Open circuit 	
<p>* In the event of overheating, the protection cuts in, switching off power to the transformer. To switch the device back on, wait until the transformer has cooled down, then switch the system off and back on using the mains switch. In case of transformer overheating must be checked the right calibration of the transformer.</p>	





GREENLine - the professional choice

The installing instructions must be followed carefully when installing the product.

The specific support material for this new family of transformers will make it even easier to choose the correct model for your requirements

We provide meterage charts, installing instructions and wiring diagrams for use of these products.

Our technicians are obviously always available, should you require any further clarification.

Mandatory testing of working current

To ensure the correct working, the low consumption and the long life of this product, after installation always check that working current of each GREENLine transformer match with the value indicated in the meterage chart.

Only gas mixture Argon/Neon

Please remember that this series of transformers can only be used with tubes filled with a mixture of Argon/Neon

Tubes diameter

Not suitable for tubes with diameter of less than 10 mm

Protections

Only to use with new protections devices MidPro, FullPro and OutPro

Tips

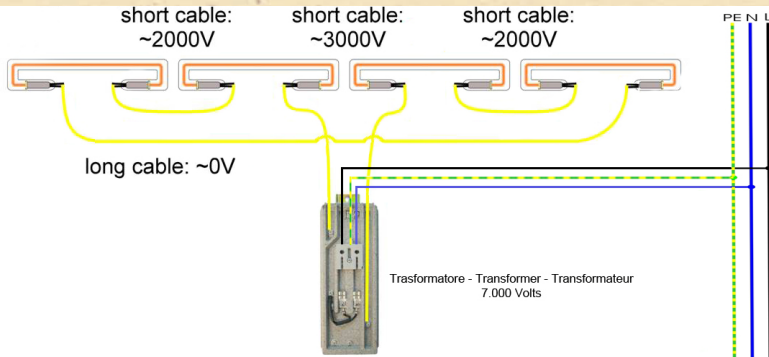
The working current can also be tested on the primary circuit, using a normal current clamp. Simply check that the amperes absorbed are the same as those given on the transformer label.

Installation instructions

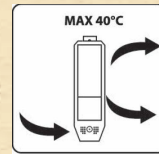
1. Preliminary Operations:

- Make sure you are only using tubes filled with Argon/Neon mixture.
- Choose suitable transformers, using our meterage chart as a guide for new systems or the conversion table when replacing old systems.
- Check perfect connection of all the metal masses and the transformer to the ground plate. (EN50107-2).
- Check that the transformer is not in a position subjected to very high temperatures or where water may pool. Also ensure correct air circulation around the transformer.
- Check that all the screws on the fittings are tight.
- Check that the input supply current is correct for the type of transformer used (Volts and Hertz)

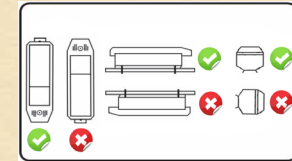
3. Wiring:



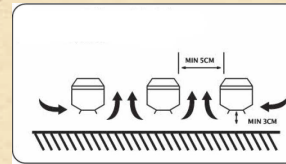
2. Positioning:



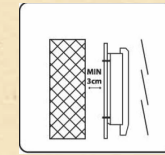
Enviromental temperature



Installation positions



Minimum horizontal distances



Minimum vertical distances

4. Checking working current on the secondary circuit

- Connect the transformer according to the installing instructions and in compliance with the safety standards in force.
- Switch on the system and run for about 10/15 minutes maximum.
- Than use a Milliamp clamp where the tubes are positioned to check that the correct working current of each transformer is shown on the display (for tubes filled with Ar/Ne mixture, the recommended value is given on the relative meterage chart). Readings can also be taken on the high tension cables as long as this is done as close as possible to the tubes.
- Should the values differ from the set limits, recalibrate the system with transformers suitable for the tubes and repeat the above checks..

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