

PULSE[®]Electronic

SMART CHARGER

INDUSTRIAL HIGH VOLTAGE GENERATOR



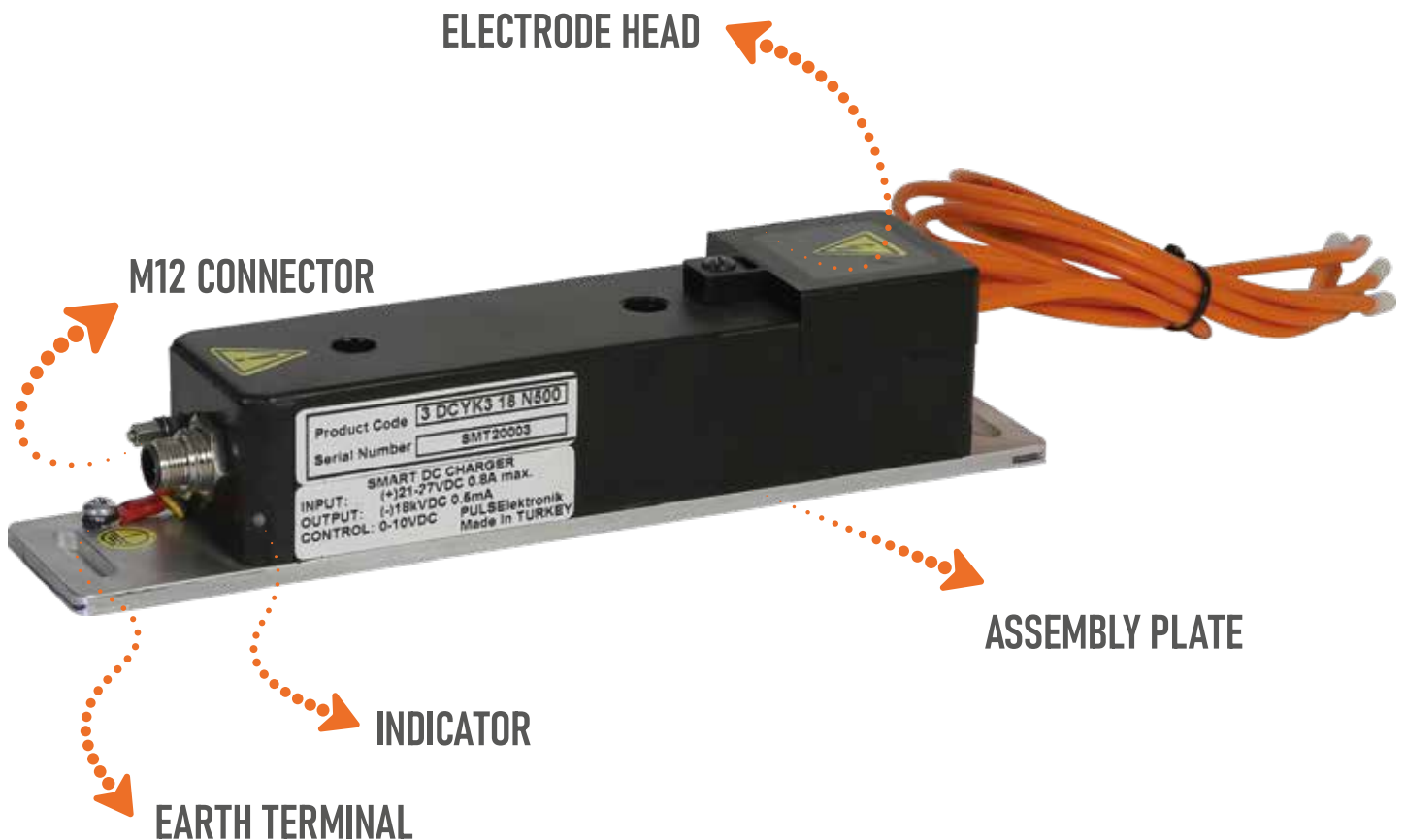
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INTRODUCTION

The Smart Charger is a high - voltage generator designed to feed high - voltage electrodes . High - voltage allows the material used to adhere temporarily .

With its small dimensions and low weight , the generator can be used close to high voltage electrodes . These features of the product enable the product to be used as an end - of - arm tool in robot arms. High voltage electrodes connected to the generator with the removable electrode head can be easily replaced.

The product is supply and controlled by the M12 connector. High voltage control can be done directly with the M12 connector or by using an external control kit. The control kit is a separate part of the product. After connecting the generator with the control kit , the generator can be controlled remotely.



The generator is supplied with 24 V DC and produces an output voltage between 0-18 kV DC. The output voltage is adjusted by a 4-20 mA control signal . Current protection protects the product against the excessive current drawing . When the current drawn from the output of the generator exceeds the current limit, the output voltage will drop automatically to protect the product. Arc protection will protect the product , against arcing that may occur at high voltage output. The high voltage is turned off and on for a short time with the arcing occurring at the output , thus protecting the product against arc. Different colored indicators on both sides of the product show the status of the generator.

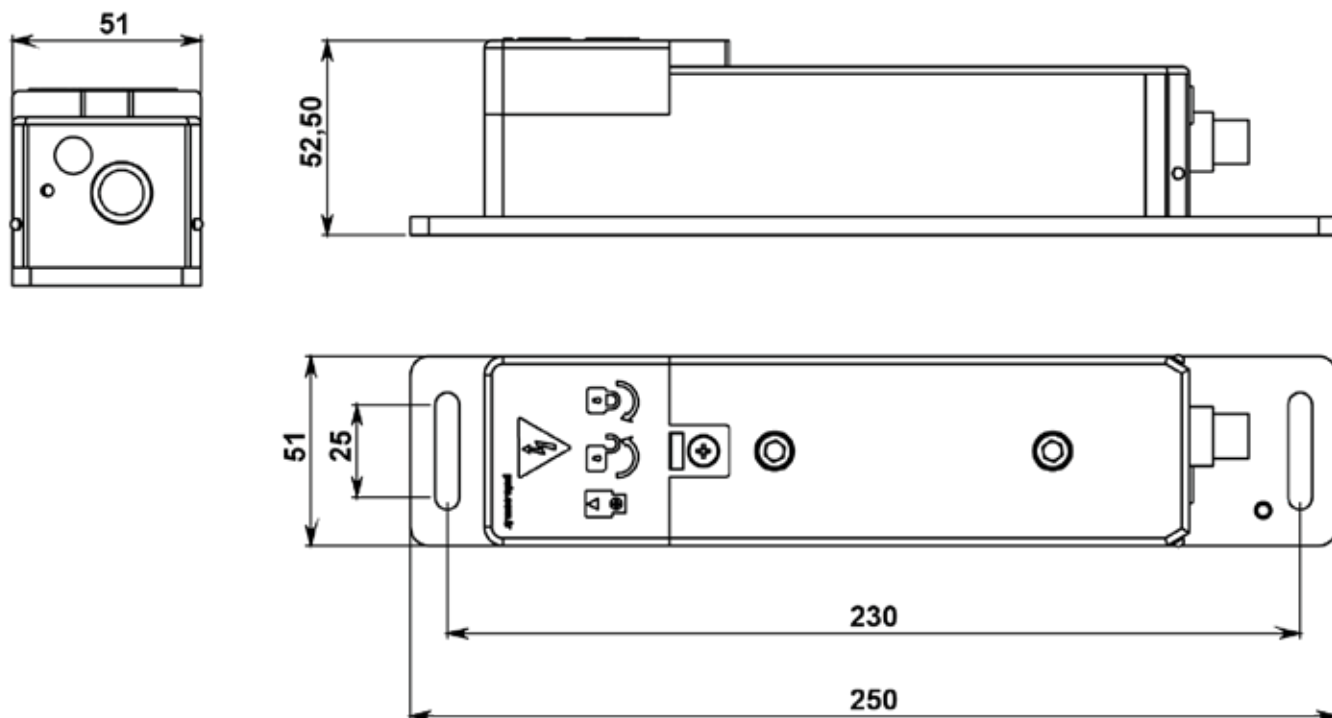
The output voltage is adjusted by using an external control signal in the range of 4-20 mA. High voltage is activated by applying 24 V. While the generator generates high voltage, generates a " High Voltage Present " 24 V DC signal also. This output signal can be received by the output signal pin on the M12 connector (max.50mA). When the product does not generate high voltage or if there is any error, the " High Voltage Present " signal will not be active.

ADVANTAGES

- Easy-to-replace electrode head
- Two-sided, bicolor indicators
- Flexible puro cable for machines with moving parts
- Remote voltage adjustment via 4-20 mA
- Low weight, small dimensions
- Remote high voltage on-off

APPLICATION

- In-mould labelling
- End-of-arm static applications
- Static Adhesion

**POWER**

SUPPLY VOLTAGE	21-27 V DC
ELECTRICITY CONSUMPTION	Max. 0.8 A

CABLE

PUR0 5X0.34 MM ² (M12 CONNECTOR)	5x10m / 0.6 0
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CONNECTION

REMOTE START	24 V DC / High Voltage On, 0 V DC / High Voltage Off
HIGH VOLTAGE CONTROL	0-20 mA
"HIGH VOLTAGE PRESENT" OUT	24 V DC (13 V) 50 mA max.
CONNECTOR	M12, 5 pins

OUTPUT

HIGH VOLTAGE	0-18 kV
OUTPUT CURRENT	Max. 0.5 mA

INDICATORS

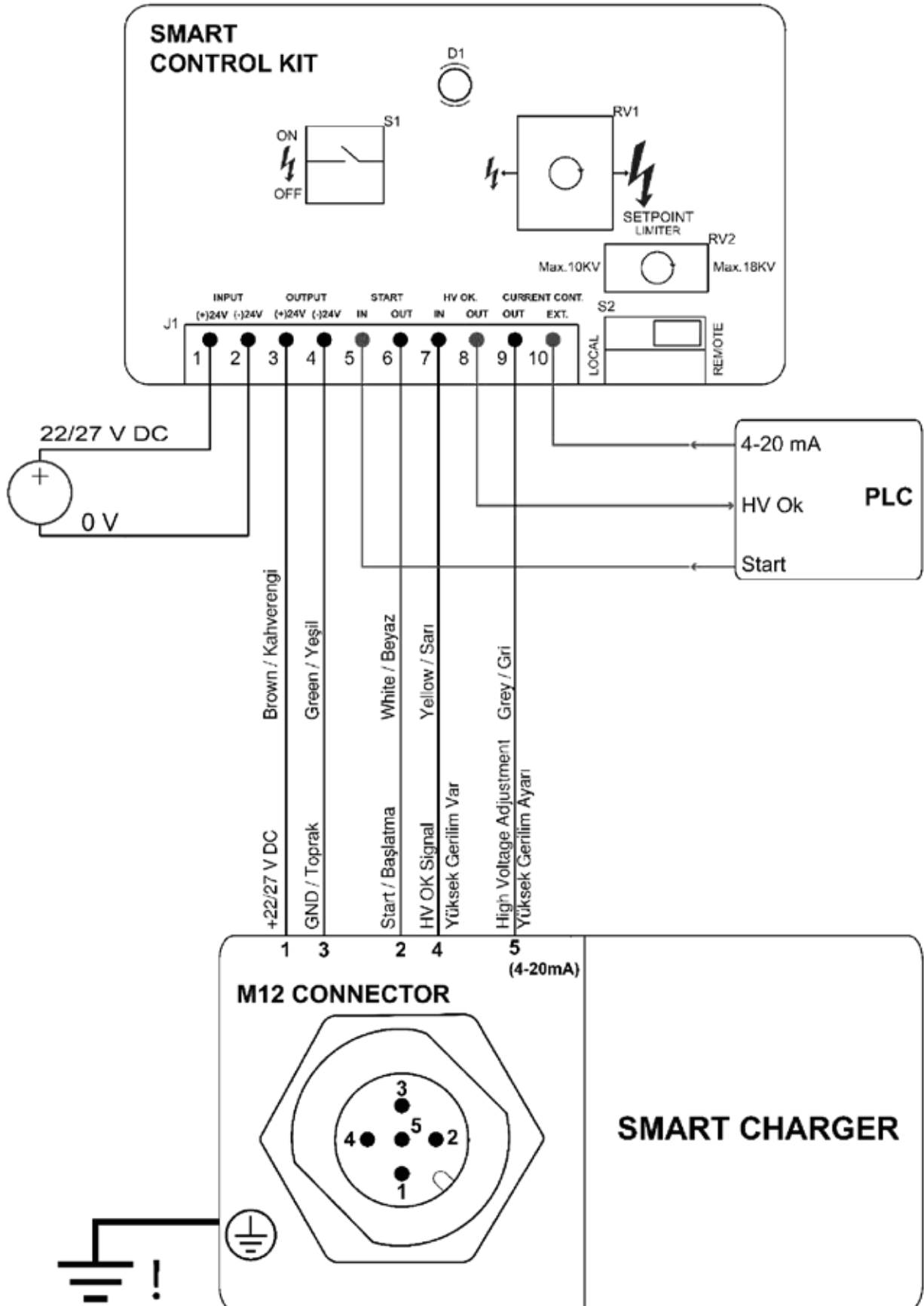
GREEN FLASH , FAST (5 HZ)	Start-up .
GREEN FLASH , SLOW (1 HZ)	Ready, high-voltage off.
ORANGE , STEADY	Normal Operation. High-voltage active.
RED FLASH , SLOW (1 HZ)	Supply voltage is out of 21-27 V DC range.
RED , STEADY	Overload at high-voltage output . High-voltage active.
RED FLASH , FAST (5 HZ)	Overload at high-voltage output . High-voltage active but dropping.

ENVIRONMENT

OPERATING	Industrial
CLASS	IP20
TEMPERATURE	0-55°C

MECHANICAL

WIDTH	250 mm
LENGHT	51 mm
HIGHT	52.5 mm



PULS Electronic Systems laid in 2002 the foundations of its success story in the field of industry with the motto "We know the Load on you, because we can measure it". Our company based in Turkey, presents to the service of its customers the electrical and electromechanical products required in the machine industry and manufactured by our firm from an innovative perspective and with continuously developing knowledge accumulation.



Puls has gained a well established place in the world market since 2002 with a product range developed as a result of the continuous investment in R&D Studies. In addition to the firsts developed in the weighing industry (Crane Scale, Checkweigher with 100 mg accuracy), it has become the pioneer of the innovations such as 20–120kV Static Charger, Web-Cleaner.

Starting out the production life with several model load cells and weighing indicators, Puls Elektronik has adopted continuous development as the principle with over 200 product types currently held in 3 main activity fields (Weighing Systems, Static solutions, Silo Equipments) and takes pride in exporting to 86 countries having dealership structure in more than 28 countries. Puls Electronic Systems is at your service in 7 continents with its distinctive products that is continuously developed through its innovative and customer-oriented structure, R&D power, the experience it has gained and knowledge accumulated.



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WEIGHING TECHNOLOGIES / STATIC SOLUTIONS / SILO EQUIPMENTS



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