SIMCO ION™ An ITW Company

static control made **Easy!**

soluciones **electrostáticas**



CM Tiny

The CM Tiny is the smallest industrial charging generator for static bonding applications. The unit has fully integrated high voltage parts and only needs a 24V DC supply. The housing is compact, robust and only weighs 500 grams which makes it perfect for small machines and applications with moving parts s.a. pick and place handling systems. It can easily withstand the high G-forces occurring during the process.

Two LED's on the side give clear indications of the status of the charging generator;

- Green : Power is on
- Green flashing : Power is on and HV output is inactive
- Red : Alarm, HV overload or HV Ok signal short circuit

Status	High voltage	Leds
Initialisation	Off	Blink green @ 5 Hz
Standby	Off	Blink green @ 1 Hz
Normal mode	On	Green
Overload HV OK	On	Blink red @ 1 Hz
Supply voltage <18V	On	Blink red @ 1 Hz
Overload HV	On	Red
Temperature >90°C	Off	Blink red @1 Hz

The CM Tiny can be used directly from a machine interface capable of supplying a 4-20 mA signal for the setpoint and a 24V DC signal for remote on/off.

Technical specifications

Required power supply	
Supply voltage	21-27 V DC
Electricity consumption	Max. 0,9 A
Setpoint	4- 20 mA, 220 Ω internal resistance
Connection	M12 connector, 5-pin
Output	
Output voltage	0-20 kV negative
Output current	Max. 0,4 mA
Environment	
Operating environment	Industrial, internal use
Ambient temperature	0- 55 °C
Protection class	IP54
Signalling	
HV OK	Supply voltage -1 V (max. 50 mA)
Remote on/off	15-30 V
Mechanical	
Dimensions (lxbxh)	200 x 45 x 36 mm
Weight	500 g (excluding high-voltage cables)
Housing material	ABS/aluminium/PVC
Vibration resistance	≤ 6 G, ≤ 7 m/s
Output connection	1 or 4 quick connect ports (ø 6 mm)
Options	IQ version

Manual operation can be implemented by an additional control circuit. The control circuit enables you to mount a potentiometer and LED by simply providing 2 holes in the front panel of your machine interface. Connectionblocks with one or four outputs are available. For the use of the quick connect ports the charging electrode has to be equipped with a special connector.

Features

- Supply voltage 24V DC
- Miniaturised Design
- Compact and robust, capable of withstanding G-forces
- No high voltage cable running through the cable channel
- HV OK signal
- Detachable high voltage distribution block
- LED's on both sides
- Microprocessor controlled
- External Setpoint control
- Remote on/off signal
- IQ version available

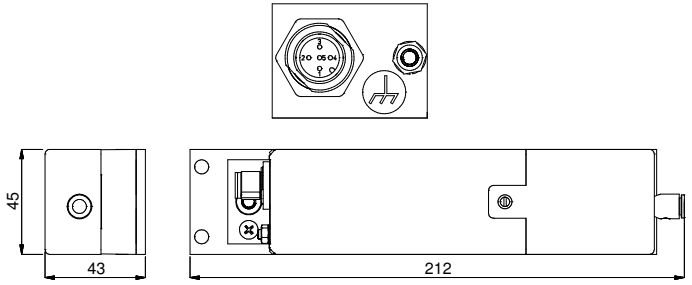


External control kit optional



External control unit optional





Technical drawing CM Tiny

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