HIGH ENERGY IGNITION MODULE

200-HEP-A6Z 7J

C.E.
COMBUSTION AND ENERGY

HIGH ENERGY IGNITION MODULE

200-HEP-A6Z 7J

KEY FEATURES

- High energy ignition system
- Power discharge: 7J
- Output volt.: 2kV impulsive capacity discharge
- Degree of protection: IP20
- Discharge frequency: < 0,6s to >8s adjustable, preset to 5s
- Installation type: for DIN connector
- Booster function: 4x7J/s (as option)

MECHANICAL FEATURES

- Electronic circuits
- Operating temp. range: - 40°C to + 85°C
- Storage temp. range: - 55°C to + 55°C
- Dimensions: 89x74x118mm
- Unit weight: 500g
- Enclosure: PVC
- Connections: screw terminals

ELECTRICAL FEATURES

- Nominal operating voltage: 2000V
- Consumption: < 1,6A
- Power supply 12/24VDC (from 10,5 to 28 VDC)
- Electronics c/w temperature compensation
- Discharge frequence regulation
- Fault relay (as option) - Max. applicable voltage 60VDC/42VAC 0,2A
- 12-24VDC remote start (as option)

OPTIONS

- High Energy Ignition Probe 200-HEF-5AA
- Spark tip: 200-HEF-9A3
- Ex d IIC fix or portable version
- Power supply from 100 to 240VAC with dedicate power converter

INSTALLATION

- Inside control local panel

APPLY TO

- Flares
- Boilers

CERTIFICATION

- CE marking
- UL for MDR power supply
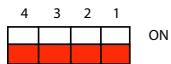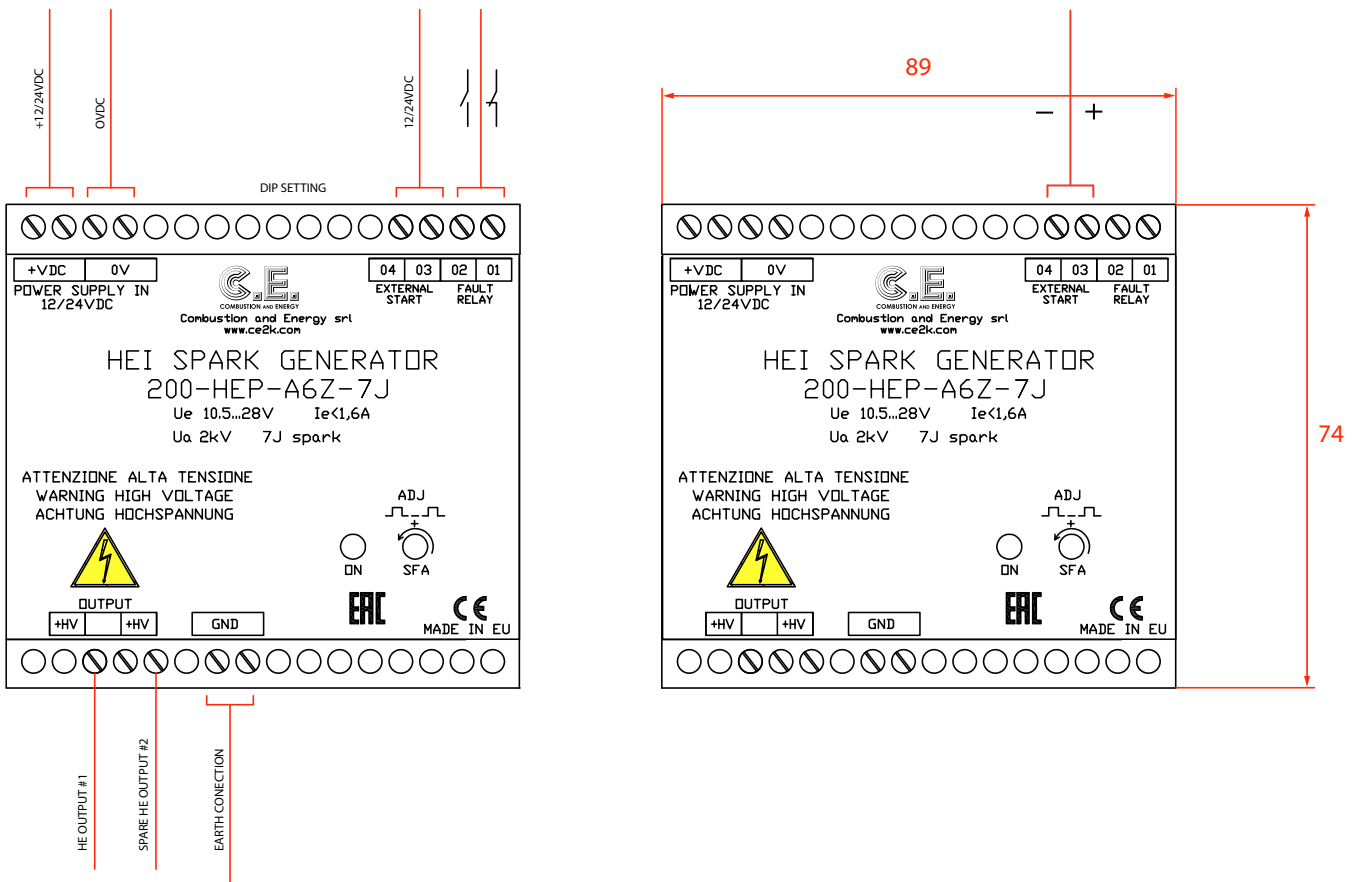- EAC for Russian market
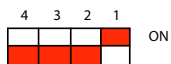
MANUFACTURER

Combustion and Energy Srl
Part number:
- 200-HEP-A6Z 7J
- 200-HEP-A6Z 7J + 48VDC CONVERTER
- 200-HEP-A6Z 7J + MDR (power supply from 100 to 240VAC)

rev_
240409

HIGH ENERGY IGNITION MODULE

200-HEP-A6Z 7J

Left module diagram labels:

- +12/24VDC
- 0VDC
- 12/24VDC
- DIP SETTING

+VDC | 0V
POWER SUPPLY IN 12/24VDC

04 | 03 | 02 | 01
EXTERNAL START | FAULT RELAY

C.E.
COMBUSTION AND ENERGY
Combustion and Energy srl
www.ce2k.com

HEI SPARK GENERATOR
200-HEP-A6Z-7J
Ue 10.5...28V   Ie<1,6A
Ua 2kV   7J spark

ATTENZIONE ALTA TENSIONE
WARNING HIGH VOLTAGE
ACHTUNG HOCHSPANNUNG

ADJ
ON   SFA

OUTPUT
+HV | +HV | GND

EAC CE MADE IN EU

- HE OUTPUT #1
- SPARE HE OUTPUT #2
- EARTH CONECTION

Right module diagram:

89
− +
74

+VDC | 0V
POWER SUPPLY IN 12/24VDC

04 | 03 | 02 | 01
EXTERNAL START | FAULT RELAY

C.E.
COMBUSTION AND ENERGY
Combustion and Energy srl
www.ce2k.com

HEI SPARK GENERATOR
200-HEP-A6Z-7J
Ue 10.5...28V   Ie<1,6A
Ua 2kV   7J spark

ATTENZIONE ALTA TENSIONE
WARNING HIGH VOLTAGE
ACHTUNG HOCHSPANNUNG

ADJ
ON   SFA

OUTPUT
+HV | +HV | GND

EAC CE MADE IN EU

DIP switch settings:

4 3 2 1 — ON
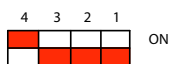HE MODULE, NO ADDITIONAL FUNCTION

4 3 2 1 — ON
HE MODULE WILL WORK UNTIL 12 OR 24VDC IS APPLYED ON THE START RELAY
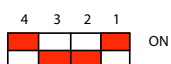(Connect 12/24VDC to PIN 3 and 0V to PIN 4)
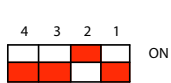
4 3 2 1 — ON
TIP AND CABLE FUNCTION CHECKING AVAILABLE
OPERATIVE CONDITION CONTACT CLOSED, FAULT CONDITION CONTACT OPEN
(24V Max applicabile voltage)
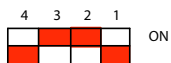
4 3 2 1 — ON
FAULT CONTACT RELAY NORMAL CLOSE (NC)
(24V max applicabile voltage)

4 3 2 1 — ON
HE MODULE FUNCTION BOOSTER ACTIVATED (4X7J/s)

4 3 2 1 — ON
HE MODULE FUNCTION BOOSTER WITH EXTERNAL START RELAY

C.E.
COMBUSTION AND ENERGY

rev_ 240409

HIGH ENERGY IGNITION MODULE

200-HEP-A6Z 7J

- Led Red ON: when the HE module is sparking.
- Led Green ON: when the HE module is ON and waiting for spark.
- Led Red flashing continuously: cable interrupted or TIP not connected (reignition delay 30 seconds) - (This function is valid only if DIP 2 is ON)
- Led Red flashing continuously: cable interrupted or TIP in short circuit (reignition delay 10 seconds) - (This function is valid only if DIP 2 is ON)
- Led Orange (green + red) flashing continuously: spark generator component or TIP are no more efficently. (This function is valid only if DIP 2 is ON)

TOP VIEW

89

74

+VDC   0V
POWER SUPPLY IN
12/24VDC

04 03 02 01
EXTERNAL FAULT
START   RELAY

Combustion and Energy srl
www.ce2k.com

HEI SPARK GENERATOR
200-HEP-A6Z-7J
Ue 10.5…28V   Ie<1,6A
Ua 2kV   7J spark

ATTENZIONE ALTA TENSIONE
WARNING HIGH VOLTAGE
ACHTUNG HOCHSPANNUNG

ADJ

ON   SFA

OUTPUT
+HV   +HV   GND

MADE IN EU

SIDE VIEW

120

LATO C

rev_
240409