



# Spark Monitoring System

## Model-SPK004A-J

- ◆ Monitor the commutator sparks of various electric motor and judge spark-number.
- ◆ Use a flame sensor (UV TRON) to reliably detect weak ultraviolet light.



Spark Monitoring System and Flame Sensor UV TRON



The flame sensor is installed on the DC motor in the photo.



The flame sensor is installed on the blooming mill motor

## Specifications

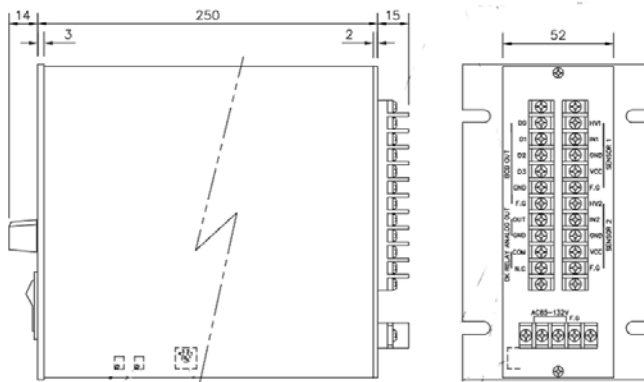
### <Sensor Unit>

Detector	: UV TRON R9533 (Hamamatsu Photonics K.K.)
Supply voltage	: 400VDC max. It is adjustable from 0 to max. by the gain control at the amplifier side.
Directivity	: max.45°
Life time	: 10,000 hours ( when it is used at 25°C)
Connection cable	: 4 core shielded cable with a glass fiber tube protection
Dimensions	: refer to the drawing below.
Weight	: approx. 500g
<Amp unit>	
Input signal	: 0-5V, pulse signal
Input channel	: 2 channel input
Sensor power supply	: UV TRON drive power supply : 400VDC max.
Gain control	: High voltage for the 2 channel UV TRON drive can be adjusted from 0 to max. By counting the pulses generated in 100msec, it is converted to spark-number corresponding to each program.
Spark-number display	: 7 segments LED 1 digit, spark-number from 1 to 8 is displayed at the channel selected by input switching.
Program switching	: NKF5AA,NKF5A12A,NKF5A14A, or NKF5A18A can be selected.
BCD output display	: Spark-number can be output with 0-5V BCD, D0(LSB) ~ D3(MSB)
Analog output	: Spark-number can be output as D/A with 1/256 resolution. DC1V ~ 8V/1 number ~ 8 number
OK monitor	: After monitoring system, the LED turns on a light if all items are normal.
Power input	: AC85V ~ AC264V, 10VA max. AC Inlet
Dimensions	: 90mm(W) x 149mm(H) x 250mm(D), refer to the drawing below.
Weight	: approx. 2kg

Drawing of Amp  
SPK-004A-J

\*Unit : mm

\*\* On the rear, the AC inlet is used instead of the AC terminal.



#### Manufacturer

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