SpotEx Controller

Model – 875

Save Energy | Enhance Safety

Syannlab Solutions Pvt. Ltd.
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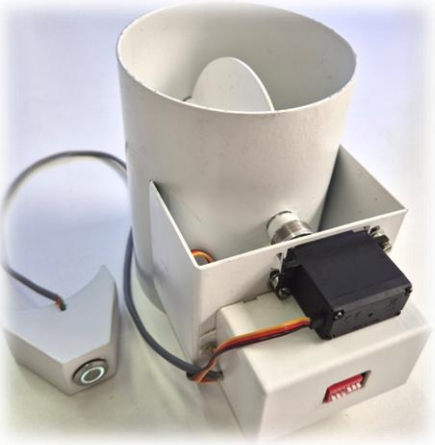
The SpotEx microcontroller based controller manages exhaust systems, especially in localized canopy or spot extraction setups commonly found in environments where harmful fumes, dust or pollutants are generated, such as laboratories, production units, workshops, hospitals or industrial facilities. The controller ensures the exhaust air damper remains open for an adjustable duration (via a DIP switch), providing a safety measure to the human for effective contaminant extraction and suction exhaust.



Equipped with a push button to open/close the damper and an LED indicator for its open status, this controller also uses the push button as a momentary switch to open the damper when all DIP switches are off. Additionally, it provides a 5V digital output indicating the damper's open status. The unit requires a 230V, 5A power supply near the damper and includes a 5V DC power adapter.

- Microcontroller-based
- For Spot, Canopy and Enclosures
- Configurable open via DIP switches
- LED indication for Open status
- Open status output: 5V DC 20mA
- MS powder coated damper
- High torque 1Kg-cm
- High speed actuator, 1sec
- Momentary open function
- 230V, 5A, 1Ph power supply

Models:
- For Spot Extractor: Damper diameter 110mm
- For Enclosure: Damper diameter 150–200mm
- For Canopy: Damper diameter 250mm

Opening Time: Configurable via DIP switch, ranging from 1 to 21 minutes
BMS Output: 5V DC, 20mA digital
Power Supply: 230V, 3A, 1 Phase AC

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Technical Specification

Electrical:

Mains Supply: AC 230V, 5A, 1 Phase (3Pin socket)
Power Adaptor: AC 230V, 3A
Operative Power: DC 5V, 1A
Output: DC 5V 20mA , Open status to BMS
DIP Switch: 6 Nos switches

Mechanical:

Opening duration: Adjustable by using DIP switch numbers
Response Time: 1Sec, Open to close
Actuator Torque: 10Kg-cm
Max. Duct Velocity: 15m/s
Maximum size: Up to Ø250mm
Leak Rate: Approx. 5%, when closed
Operative Noise: When opened up to 60dB
Status Indication: LED for Damper open status
Cable Length: 4m, Push button to controller
Mounting Dia: OD 75mm for Spot extractor
Mounting Box / Plate: Flat for Enclosure / Canopy
Damper Material: Mild Steel Powder Coated
Fixing: To be fixed with Ø110 / Ø150/ Ø200 couplers to duct
Flanges available upon request

Pressure loss chart

Damper Ø (mm)	Pressure Loss (Pa)
110	15
150	30
200	40
250	50

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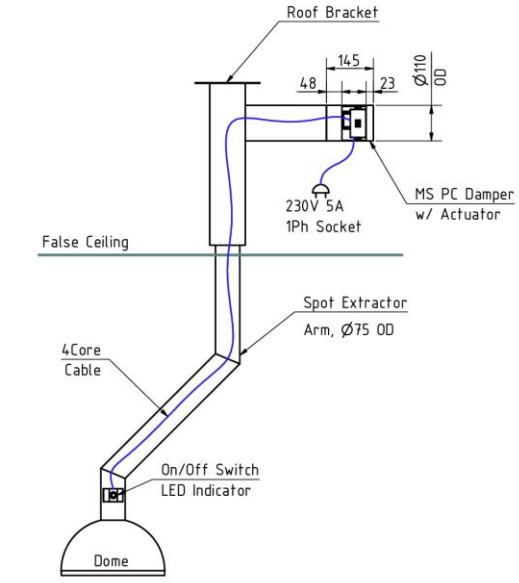
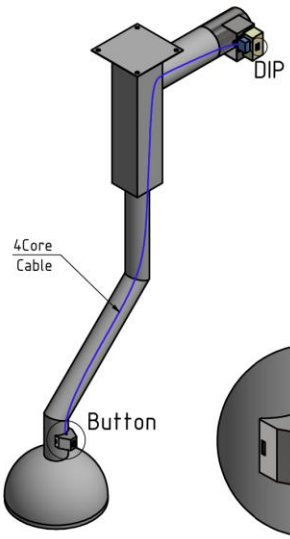
DIP Switch configuration for Damper Open duration

1min – switch on 1
2min - switch on 2
3min – switch on 3 or 1&2
4min - switch on 4 or 1&3 or 2&2
5min – switch on 5 or 1&4 or 2&3
6min - switch on 6 or 2&4 or 1&5
7min – switch on 2&5 or 1&6 or 3&4
8min - switch on 2&6 or 1&7
Momentary – When all DIP off & so on …



Front View (1 : 10)

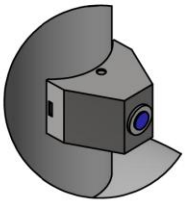
Spot extractor not in our scope



Isometric (1 : 10)

DIP Switch
1 to 6

Close side
Mometery when all close



Push Button
w/ Indicator

875 - ABCD - 00

Model No
875 – Standard

Damper Dia
0110 = 110mm
0200 = 200mm
0250 = 250mm

Configuration
00 – Standard
01 – Single Flange
11 – Both Flange

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Please scan for real time working video.

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