



# SMOKE CONTROL DAMPER ACTUATOR





## BEA...F SERIES

FIRE AND SMOKE CONTROL  
DAMPER ACTUATOR

**5Nm On-Off Control**

**BEA24S-5F**  
**BEA24ST-5F**  
**BEA230S-5F**  
**BEA230ST-5F**

- Torque : 5Nm
- Running time : electric control time <70S  
spring reset time <25S
- Nominal voltage: AC/DC 24V AC 230V  
Control: ON / OFF
- Model with "S" type contains 2 auxiliary switches
- Model with "T" includes 72°C temperature probe

5Nm

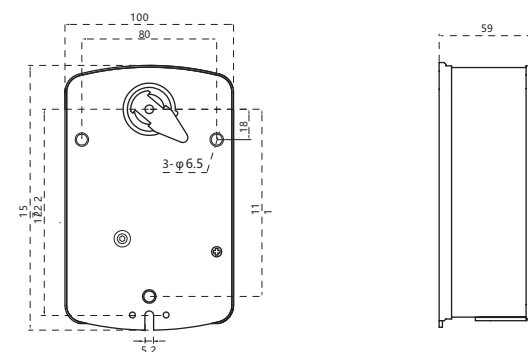
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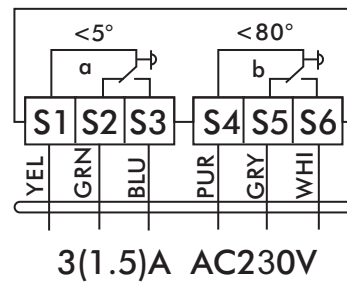
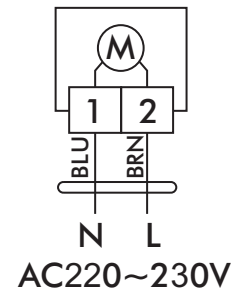
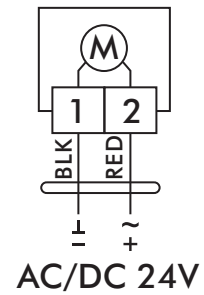
### Technical specification

|                       | BEA24S-5F/BEA24ST-5F               | BEA230S-5F/BEA230ST-5F         |
|-----------------------|------------------------------------|--------------------------------|
| Electrical data       |                                    |                                |
| Nominal voltage       | AC/DC 24V 50/60Hz                  | AC230V 50/60Hz                 |
| Nominal voltage range | AC/DC 19.2...28.8V                 | AC85...230V                    |
| Power consumption     | 5W@Nominal torque / 3W@holding     | 5W@Nominal torque / 3W@holding |
| Transformer capacity  | 8VA                                |                                |
| Wire sizing           | 0.5mm²                             |                                |
| Function data         |                                    |                                |
| Damper size           | 1m²                                |                                |
| Direction of rotation | Selected by mounting L/R           |                                |
| Manual override       | Yes                                |                                |
| Angle of rotation     | Max95°                             |                                |
| Sound power level     | 45dB                               |                                |
| Position indication   | Mechanical                         |                                |
| Working Conditions    |                                    |                                |
| Protection class      | Ⅲ ( safety low voltage )           | Ⅱ ( totally insulated )        |
| Protection level      | IP54                               |                                |
| Ambient temperature   | -20...+50℃ /IEC 721-3-3            |                                |
| Inventory temperature | -30...+80℃ /IEC 721-3-2            |                                |
| Humidity test         | 95%RH, non condensing / EN 60730-1 |                                |
| Dimensions / Weight   |                                    |                                |
| Dimensions(L×W×H)     | See“ Dimensions”                   |                                |
| Shaft length          | < 50mm                             |                                |
| Shaft diameter        | 12X12mm □ 8X8、10X10 Shaft sleeve   |                                |
| Weight                | < 2.0kg                            |                                |

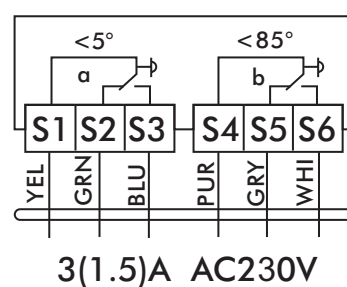
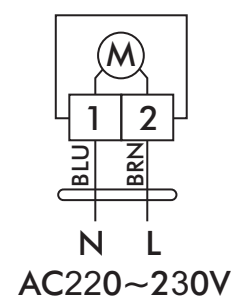
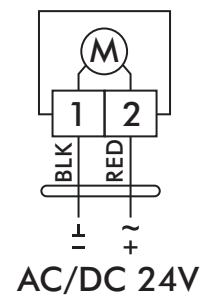
### Actuator Dimensions



## On-Off Wiring Diagram



Applies to:  
BEA24S-5F BEA230S-5F  
BEA24ST-5F BEA230ST-5F

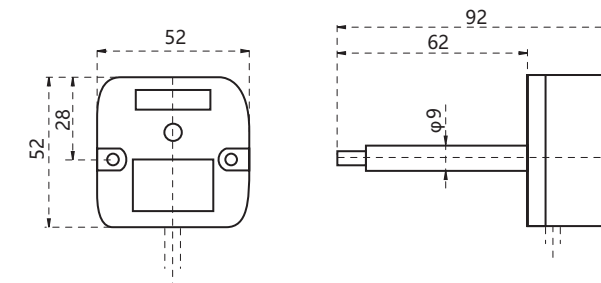


Applies to:  
BEA24S-10F BEA230S-10F  
BEA24S-15F BEA230S-15F  
BEA24ST-10F BEA230ST-10F  
BEA24ST-15F BEA230ST-15F

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### Thermal Sensor Structure Diagram Decomposition



### Thermal Sensor SAF72

Thermal sensor SAF72 consist of both ambient(ts1) and duct sensor(ts2).

TS1 will trip open when ambient temperature rise above 72°.

TS2 will trip open when duct temperature rise above 72°

### Type Naming

