

EU Series

| Fire and Smoke Spring Return Actuators | BFL | BLF | BFN | BFG | BF |
|--|---------------------------------------|------------------|------------|------------|---------------------------------------|
| Agency listing | CE Certification | | | | |
| Torque - Motor | 4Nm | 6Nm | 9Nm | 11Nm | 18Nm |
| - Spring Return | 3Nm | 4Nm | 7Nm | 8.5Nm | 12Nm |
| Open/Close | | | | | |
| AC 24V 50/60Hz, DC 24V | BFL24 | BLF24 | BFN24 | BFG24 | BF24 |
| AC 24V 50/60Hz, DC 24V with thermal trip (72°C) | BFL24-T | BLF24-T | BFN24-T | | BF24-T |
| AC/DC 24V with plug connect to BKN230-24 | BFL24-ST | BLF24-ST | BFN24-ST | BFG24-ST | BF24-ST |
| AC 24V 50/60Hz, DC 24V with thermal trip and plug connect to BKN230-24 | BFL24-T-ST | BLF24-T-ST | BFN24-T-ST | BFG24-T-ST | BF24-T-ST |
| AC 230V 50/60Hz | BFL230 | BLF230 | BFN230 | BFG230 | BF230 |
| AC 230V 50/60Hz with thermal trip | BFL230-T | BLF230-T | BFN230-T | BFG230-T | BF230-T |
| Modulating (AC 24V 50/60Hz, DC 24V) | | | | | |
| Control signal Y DC (0)2...10V | | BLF24-SR* | | | BF24-SR(-T) |
| Feedback signal U DC 2...10V | | BLF24-SR* | | | |
| Running time - Motor | <60s | 40...75s/0...6Nm | <60s | 120s | 120s |
| - Spring Return | 20s | | | | 16s |
| Built-in 2 SPDT auxiliary switch | Build-in | Build-in** | Build-in | | |
| Form-fit | 12 x 12mm (with 10 x 10mm adaptor) | | | 10 x 10mm | 12 x 12mm (with 10 x 10mm adaptor) |
| Manual override function | YES | YES*** | YES | | |
| Angle of rotation | Max.95° | Max.95° | Max.95° | Max.180° | Max.95° |
| Direction of rotation selectable by L/R mounting | YES | YES | YES | YES | YES |

* For BLF24-SR, the motor torque is 4Nm and the spring return torque is 4Nm, motor running time is 150s.

** BLF24-SR has 1 SPDT auxiliary switch built-in.

*** BLF24-SR has no manual override function.

| Smoke Control Non-Spring Return Actuators | BLE.. | BE.. | BR.. |
|--|------------------|-----------------------------------|--------------|
| Agency listing | CE Certification | | |
| Torque | 15Nm | 40Nm | 15Nm |
| Open/Close | | | |
| AC 24V 50/60Hz, DC 24V | BLE24 | BE24 | |
| AC/DC 24V with plug connect to BKN230-24 | BLE24-ST | BE24-ST | |
| AC 24..48V compatible with control unit for pulse triggering BSIA24-48(-R) | | | BR24-48-F-ST |
| AC 230V 50/60Hz | BLE230 | BE230 | |
| Running time - Motor | 30s | 60s | 30s |
| Built-in 2 SPDT auxiliary switch | YES | | |
| Form-fit 12 x 12mm | YES | BE24-12 BE24-12-ST BE230-12 | YES |
| Form-fit 14 x 14mm | | YES | |
| Manual override function | YES | | |
| Angle of rotation | Max.95° | | Max.105° |
| Direction of rotation selectable by L/R mounting | YES | | |

US Series

| Fire and Smoke Spring Return Actuators | FSTF..US | FSLF..US | FSNF..US | FSAF..US | FSAF..A | FSAFB24-SR* |
|--|---|-----------------------------|-----------------------------|-----------------------------|---------------------------------------|--|
| Agency listing | UL555 and UL555S | | | | | |
| Torque - Motor | 2Nm | 3.5Nm | 7.9Nm | 15Nm | 20Nm | 20Nm |
| - Spring Return | 2Nm | 3.5Nm | 7.9Nm | 15Nm | 20Nm | 20Nm |
| Accessories | | | | | | |
| BAE72-S Thermoelectrical tripping device 72°C | Optional / Order Separately | | | | | |
| BAE165 US Thermoelectrical RE tripping device | | | | | | |
| Modulating | | | | | | |
| AC 24V 50/60Hz | | | | | | FSAFB24-SR |
| Open/Close | | | | | | |
| AC 24V 50/60Hz, DC 24V | FSTF24 US | FSLF24 US | FSNF24 US** | FSAF24 US | FSAF24A | FSAFB24-SR |
| AC120V 50/60Hz | FSTF120 US | | | | FSAF120A | |
| AC 230V 50/60Hz | FSTF230 US | FSLF230 US | FSNF230 US | FSAF230 US | FSAF230A | |
| Built-in 2 SPDT auxiliary switch | | | FSNF24-S US FSNF230-S US | | FSAF24A-S FSAF120A-S FSAF230A-S | FSAFB24-SR |
| Built-in 2 SPST auxiliary switch | FSTF24-S US FSTF120-S US FSTF230-S US | FSLF24-S US FSLF230-S US | | FSAF24-S US FSAF230-S US | | |
| Running time - Motor | 75s | 15s | 15s | 75s | 25s | 75s |
| - Spring Return | 25s | 15s | 15s | 20s | 15s | 20s |
| Clamp | 6...12mm | 12.7...20mm | 12.7...26mm | 12.7...26mm | 12.7...20mm (10...20mm optional) | 12.7mm (19.05mm, 26.67mm field selectable) |
| Manual override function | NO | | | YES | NO | YES |
| Angle of rotation | Max.95° | | | | | |
| Direction of rotation selectable by L/R mounting | YES | | | | | |

* FSAFB24-SR could be control with open/close or modulating operations.

** DC 24V is not UL listed for FSNF24(-)S US.