

## KWP-L



- ▶ **VDI 6022** HYGIENIC STANDARD
- ▶ **CERTIFICATION FOR ASSEMBLY OUTSIDE THE WALL UP TO 1 METRE**

### Description

**EI 120 S** fire damper according to UNI EN 1366-2 classification UNI EN 13501-3 certificate no. 1438-CPR-0509

**CE marking** - VDI 6022 hygienic certificate

- Construction: Z275 galvanised steel frame th. 10/10 with flanges for connection to the ducting, intermediate thermal break, offset blade in calcium silicate mounted on steel pins and brass bushings, intumescent gasket and perimeter gasket for tightness against cold fumes. Reduced pressure drop
- Vertical or horizontal installation
- Leakage class C of the frame according to EN 1751
- Leakage "Class 3" tests on blade according to EN 1751

### Fitted with:

- **Manual version:** with 72°C thermal fuse, spring return and microswitch
- **Motorised version:** actuators with thermal fuse, spring return, 24V and 230V dual microswitch

- Installations in walls with fire resistance classes EI 120/90/60 with blade installed in the wall or outside
- Ceilings th. 140 mm
- Low density masonry walls with th. 100 mm
- Plasterboard walls th. 125 mm
- External to masonry walls with th. 120 mm up to 1 metre (EI 120S)

### EI 120 (v\_e h\_o i ↔ o) S

**Max dimension 800x500**

**KWP-L-S:** with thermal fuse and spring return

**KWP-L-S W:** with thermal fuse, spring return and microswitch (W1 - W2 - W12)

- **W1:** limit switch on closing
- **W2:** limit switch on opening
- **W12:** limit switch opening and closing

**KWP-L-E24T:** with actuator with spring return, thermal fuse and double opening and closing micro limit switch, 24V power supply

**KWP-L-E230T:** with actuator with return spring, thermal fuse and double opening and closing micro limit switch, 230V power supply

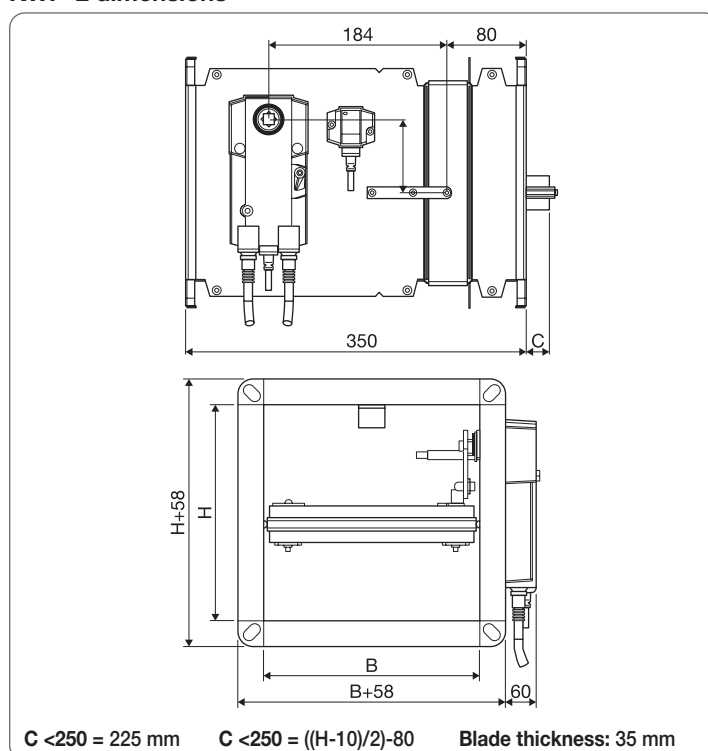
### Special executions

- Execution in AISI 304/316 stainless steel
- Execution in galvanised steel coated according to the RAL table
- Blade treated with solvent-free, silicate-based impregnating agent, for acidic or very humid environments
- 95° thermal cut/off for motorised version
- Special execution for "cabin/container" metal structures with installation outside the wall
- Additional communication systems (see page 10)

### Pressure drops

| V (m/s) | Δp Pa |
|---------|-------|
| 4       | 10    |
| 6       | 18    |
| 8       | 30    |

### KWP-L dimensions



All prices are list prices for local market, for a quotation please contact us.

### KWP-L price list

| H/L | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 200 | 147 | 153 | 159 | 165 | 171 | 177 | 183 | 188 | 194 | 200 | 206 | 212 | 218 |
| 250 | 153 | 160 | 166 | 172 | 178 | 184 | 191 | 197 | 203 | 209 | 215 | 222 | 228 |
| 300 | 159 | 166 | 172 | 179 | 185 | 192 | 199 | 205 | 212 | 218 | 225 | 231 | 238 |
| 350 | 165 | 172 | 179 | 186 | 193 | 200 | 207 | 213 | 220 | 227 | 234 | 241 | 248 |
| 400 | 171 | 178 | 185 | 193 | 200 | 207 | 215 | 222 | 229 | 236 | 244 | 251 | 258 |
| 450 | -   | 184 | 192 | 200 | 207 | 215 | 223 | 230 | 238 | 245 | 253 | 261 | 268 |
| 500 | -   | 191 | 199 | 207 | 215 | 223 | 231 | 238 | 246 | 254 | 262 | 270 | 278 |

|          |    |          |    |           |    |           |    |
|----------|----|----------|----|-----------|----|-----------|----|
| W1 MICRO | 21 | W2 MICRO | 21 | W12 MICRO | 42 | FUSE 72°C | 16 |
|----------|----|----------|----|-----------|----|-----------|----|

### KWP-L-E24T price list

| H/L | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 200 | 397 | 403 | 409 | 415 | 421 | 428 | 434 | 440 | 446 | 452 | 458 | 464 | 470 |
| 250 | 403 | 410 | 416 | 423 | 429 | 435 | 442 | 448 | 455 | 461 | 467 | 474 | 480 |
| 300 | 409 | 416 | 423 | 430 | 436 | 443 | 450 | 457 | 464 | 470 | 477 | 484 | 491 |
| 350 | 415 | 423 | 430 | 437 | 444 | 451 | 458 | 465 | 473 | 480 | 487 | 494 | 501 |
| 400 | 421 | 429 | 436 | 444 | 452 | 459 | 466 | 474 | 482 | 489 | 496 | 503 | 510 |
| 450 | -   | 435 | 443 | 451 | 459 | 467 | 475 | 483 | 491 | 499 | 507 | 515 | 523 |
| 500 | -   | 442 | 450 | 458 | 466 | 475 | 483 | 491 | 499 | 507 | 515 | 523 | 531 |

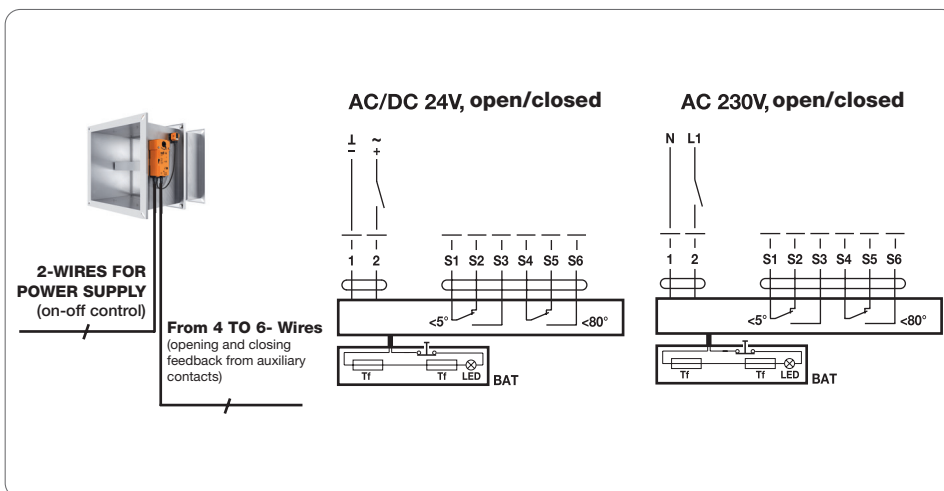
Delivery: prices in bold in stock

### KWP-L-E230T price list

| H/L | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 200 | 422 | 428 | 434 | 440 | 446 | 452 | 458 | 464 | 470 | 476 | 482 | 488 | 494 |
| 250 | 428 | 434 | 441 | 447 | 454 | 460 | 466 | 473 | 479 | 486 | 492 | 498 | 505 |
| 300 | 434 | 441 | 447 | 454 | 461 | 468 | 475 | 481 | 488 | 495 | 502 | 508 | 515 |
| 350 | 440 | 447 | 454 | 461 | 469 | 476 | 483 | 490 | 497 | 504 | 511 | 518 | 525 |
| 400 | 446 | 454 | 461 | 469 | 476 | 484 | 491 | 499 | 506 | 514 | 521 | 528 | 535 |
| 450 | -   | 460 | 468 | 476 | 484 | 491 | 499 | 507 | 515 | 523 | 531 | 539 | 547 |
| 500 | -   | 466 | 475 | 483 | 491 | 499 | 507 | 515 | 523 | 531 | 539 | 547 | 555 |

## Standard actuator

- BFL24-T
- BFN24-T
- BF24-T
- BFL230-T
- BFN230-T
- BF230-T

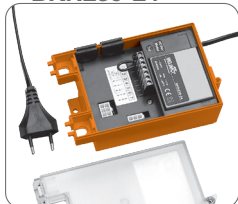


## Control and warning

### Actuators:

- All 24V actuators with T-ST extension
- BFL24-T-ST
- BFN24-T-ST
- BF24-T-ST

### BKN230-24



#### Description

- Power supply and communication unit for actuators for 24V fire damper with ST socket
- Built-in status light
- Possible connection to a smoke detector, without additional power supply
- AC 230V power supply

### BKS24-1B



#### Description

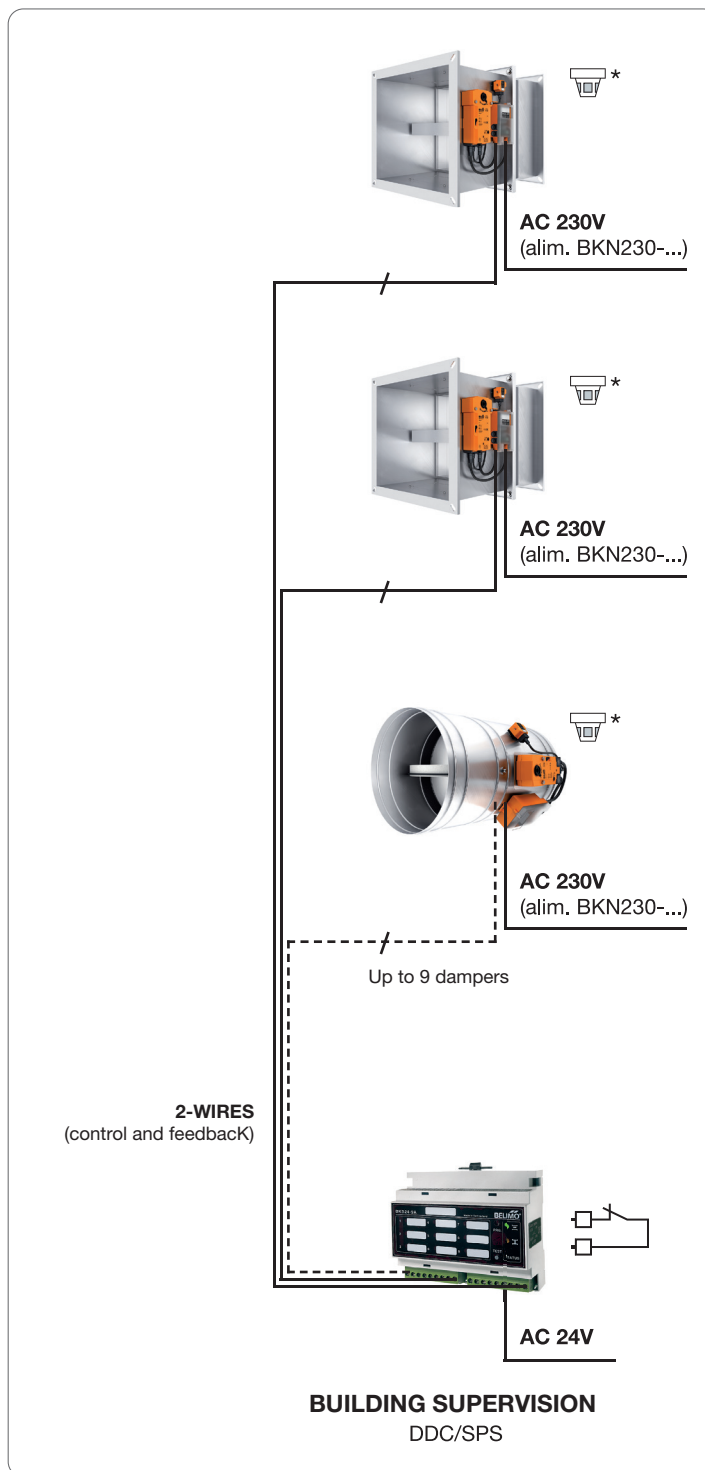
- Communication and control unit for fire damper
- Control and monitoring of 1 damper
- Built-in status light
- ZSO-11 connection base required
- AC 24V power supply

### BKS24-9A



#### Description

- Communication and control unit for fire damper
- Control and monitoring of 9 dampers
- Built-in status light
- Connection plug terminals
- AC 24V power supply



## Modbus RTU and BACnet MS/TP

### Actuators:

- All 24V motors with T-ST extension

#### BKN230-24-MOD



#### Description

- Power supply and communication unit for actuators for 24 V fire damper with ST socket
- BACnet MS/TP, Modbus RTU communication
- Built-in status light
- Possible connection to a smoke detector, without additional power supply
- AC 230V power supply

#### UK24MOD

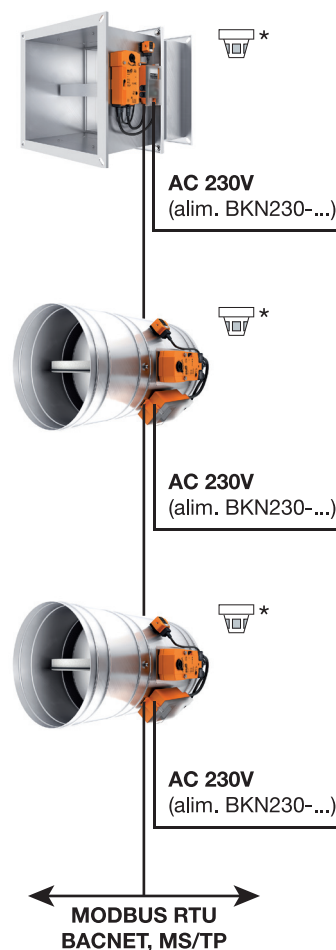


#### Description

- MP Gateway for Modbus RTU
- AC/DC 24V
- MP interface – Modbus RTU (RS-485)
- Connection of max. 8 actuators
- MP/MPL/MFT(2) incl. VAV and fire protection

#### 1..64 DAMPERS

(with signal repeater, it is possible to connect up to 64 dampers)



## MP-Bus and DDC-Controller

### Actuators:

- All 24V motors with T-ST extension

#### BKN230-24-C-MP



#### Description

- Power supply and communication unit for actuators for 24 V fire damper with ST socket
- MP-Bus communication
- UK24MOD, UK24BAC and SBS control
- Built-in status light
- Possible connection to a smoke detector, without additional power supply
- AC 230V power supply

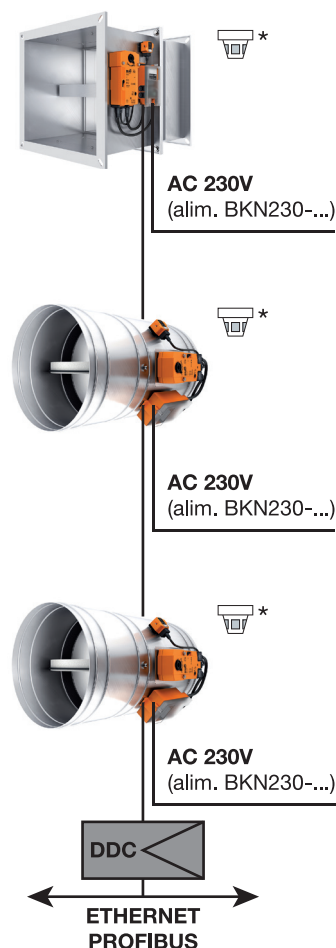
#### UK24BAC



#### Description

- MP Gateway for BACnet MS/TP
- AC/DC 24V
- MP interface – BACnet MS/TP (RS-485)
- Connection of max. 8 actuators
- MP/MPL/MFT(2) incl. VAV and fire protection

#### 1...8 DAMPERS



# Fire damper systems

All prices are list prices for local market, for a quotation please contact us.

## Price list - Fire damper systems

| Cable / Socket for systems | €  |
|----------------------------|----|
| T-ST                       | 50 |

| Power supply and communication systems | €   |
|----------------------------------------|-----|
| BKN 230-24                             | 280 |
| BKN 230-24 C - MP                      | 400 |
| BKN 230-24 MOD                         | 400 |
| BKN 230-24 LON                         | 620 |

| Monitoring and control system | €   |
|-------------------------------|-----|
| BKS 24-1                      | 530 |
| 24-9A BKS                     | 710 |
| UK 24 MOD                     | 830 |
| UK 24 BAC                     | 940 |

### Example:

Fire damper with 24V actuator and thermal fuse, take the list price for the motorised damper.

We combine the power supply and communication unit **BKN230-24** and to do so, we need to use the **T-ST** cable.

**T-ST + BKN 230-24** we will get: € 50.00 + € 280.00 = € 330.00 to be added to the price of the 24V motorised damper.

We will then combine the monitoring and control system **BKS 24-1** or **BKS24-9A**.

Combine the components according to the "MOD-LON" communication system.

# Smoke control damper systems

All prices are list prices for local market, for a quotation please contact us.

## Price list - Smoke control damper systems

| Cable / Socket for systems | €  |
|----------------------------|----|
| T-ST                       | 50 |

| Power supply and communication systems | €   |
|----------------------------------------|-----|
| BKNE 230-24                            | 380 |

| Monitoring and control system                 | €   |
|-----------------------------------------------|-----|
| BKSE 24-6 UP TO 6 DAMPERS                     | 530 |
| BSIA24-48 PULSE, 24-48 V, NORM. OPEN          | 710 |
| BSIA24-48 R FAIL SAFE / CUT-OFF, NORM. CLOSED | 830 |