

# RedBox Terminal box, retrofit

adaptable to ...Max actuators size S and M and ...Run valve actuators

Subject to change!

| Type            | Description   | Applications                                       | Installation area | Figure |
|-----------------|---|--|-------------------|--------|
| RedBox- 3P      | 5 terminals, 2 cable glands   | for RedMax-... actuators                           | Zone 2, 22        | B1     |
| RedBox- Y/S     | 5 + 6 terminals, 4 cable glands   | for RedMax-...-S... actuators                      | Zone 2, 22        | B2     |
|                 | 5 + 6 terminals, 4 cable glands   | for RedMax-...-Y actuators                         | Zone 2, 22        | B2     |
| RedBox- BF      | 11 terminals, 3 cable glands  | for RedMax-...-BF actuators                        | Zone 2, 22        | B3     |
| RedBox- 3P /SW  | 5 + 6 terminals + 6 terminals, 3 glands + 1 duplex gland  | for RedMax... actuators and RedSwitch              | Zone 2, 22        | B4     |
| RedBox- Y/S/SW  | 5 + 6 terminals + 6 terminals, 5 glands + 1 duplex gland  | for RedMax-...-S or ...-SF actuators and RedSwitch | Zone 2, 22        | B5     |
|                 | 5 + 6 terminals + 6 terminals, 5 glands + 1 duplex gland  | for RedMax-...-Y or ...-YF actuators and RedSwitch | Zone 2, 22        | B5     |
| RedBox- BF /SW  | 5 + 6 terminals + 6 terminals, 4 glands + 1 duplex gland  | for RedMax-...-BF actuators and RedSwitch          | Zone 2, 22        | B6     |
| RedBox /SW      | 6 terminals, 2 cable glands   | for RedSwitch                                      | Zone 2, 22        | B7     |
| RedBox- ... -CT | Types as above with aluminium housing and seawater resistant coating (cable glands brass nickel-plated) |  |                   |        |
| RedBox- ... -VA | Types as above with stainless steel housing for aggressive ambient (cable glands brass nickel-plated)   |  |                   |        |

## Product views and applications

RedBox-3P



RedBox-Y/S



MKK-S



...Box- ... -VA

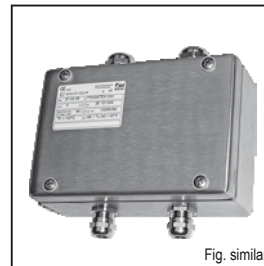


Fig. similar



## Description

RedMax actuators are delivered with 1 m cable. In case of cable connection inside hazardous areas a certificated terminal box is required. Terminal boxes type RedBox are specially designed for RedMax actuators for installation in hazardous areas zone 2 and 22.

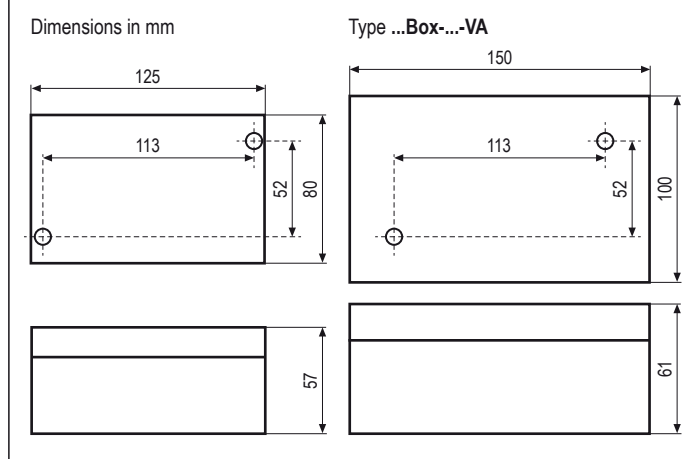
### Important

Before opening an terminal box the supply voltage of the wiring must be cut.

For actuators with retrofit, external auxiliary switches ...Switch the terminal box ...Box-.../SW must be ordered.

Special terminal boxes on request.

## Dimensions



## Technical data

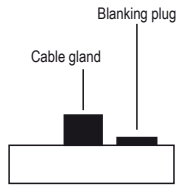
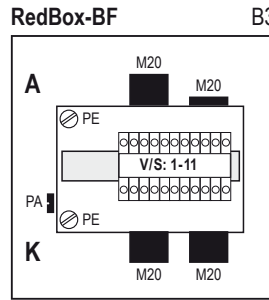
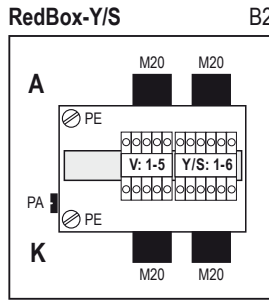
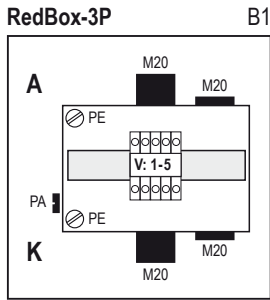
|                               |  |
|-------------------------------|--|
| <b>Cable glands</b>           | M20 × 1,5 mm plastic PA I12GD Ex-e (for cable diameter Ø 6...13 mm)      |
| <b>Cable glands Duplex</b>    | M20 × 1,5 mm brass nickel-plated (for cable diameter 2 × Ø 5,5...7,5 mm) |
| <b>Terminals V and Y/S</b>    | 4 mm² I12GD Ex-e (minimum diameter 0,5 mm²)                              |
| <b>Terminals SW</b>           | 1,5 mm² I12GD Ex-e   |
| <b>PE connection</b>          | 2 × 4 mm²  |
| <b>Ambient temperature</b>    | -40...+60 °C   |
| Types ...-VA:                 | -40...+50 °C   |
| <b>Housing material</b>       | Aluminium, powder-coated, or stainless steel 1.4404 / 316L               |
| <b>Dimensions (L × W × H)</b> | 125 × 80 × 57 mm   |
| Types ...-VA:                 | 150 × 100 × 61 mm  |
| <b>Weight</b>                 | ~ 750 g aluminium housing, stainless steel ~ 1200 g                      |

## Special solutions and accessories

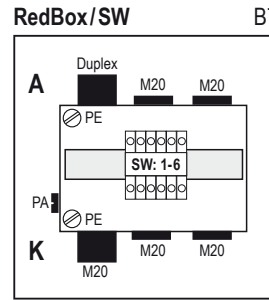
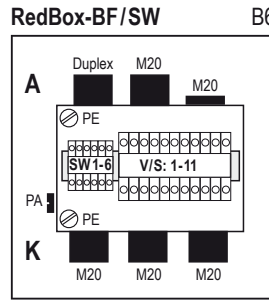
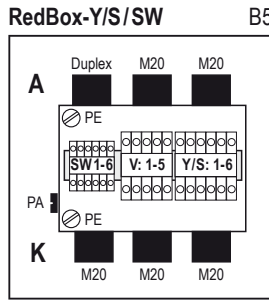
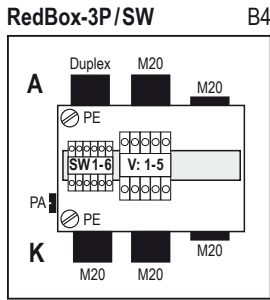
|                   |   |
|-------------------|---|
| <b>...-CT</b>     | Types in aluminium housing with seawater resistant coating, parts nickel-plated |
| <b>...-VA</b>     | Types in stainless steel housing V4A / 316L / DIN EN 1.4404                     |
| <b>MKK-S</b>      | Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size S     |
| <b>MKK-M</b>      | Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size M     |
| <b>Kit-S8 Box</b> | 4 cable glands M20 × 1,5 mm Ex-e, brass nickel-plated, Ø 6...13 mm              |



Variants (aluminium housing)



- Legend for terminal block symbols: K, A, V, Y, S, SW.



Selection guide

Table mapping RedBox variants to actuator models (Max and Run) and switch options.

WARNING: Warning for enclosure with coating. The enclosure with a coating must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

Installation: Diagram showing Ex area (zone 2, 22) and Safe area, with a RedBox unit and its electrical connections to supply, control, feedback, switches, and miscellaneous lines.

Approbations: Table listing ATEX and IECEx certifications for aluminium and stainless steel housings, along with enclosure protection details.