

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 C5-M painting (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

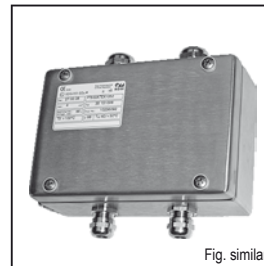


Fig. similar



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.

Approbations

Certification acc. ATEX acc. directive 94/9/EC	Aluminium housing:	PTB 05 ATEX 1001
	II 2 G Ex e IIC T6, T5, T4 Gb	
	II 2 D Ex tb IIIC T85°C, T100°C, T135°C Db IP66	
	Stainless steel housing:	PTB 00 ATEX 1052
Certification acc. IECEx	Aluminium housing:	IECEX PTB 12.0010
	Ex e IIC T6, T5, T4 Gb	
	Ex tb IIIC T85 °C, T100 °C, T135 °C Db	
	Stainless steel housing:	IECEX PTB 07.0060
IP-Protection	Ex e IIC T6, T5, T4 Gb	
	Ex tb IIIC T85°C, T100°C, T135°C Db	
	IP66 in acc. with EN 60529	

Technical data

Cable glands	M20 × 1,5 mm plastic PA II2GD Ex-e (for cable diameter Ø 6...13 mm)
Cable glands Duplex	M20 × 1,5 mm plastic PA II2GD Ex-e (for cable diameter 2 × Ø 4...6 mm)
Terminals V and Y/S	4 mm ² II2GD Ex-e (minimum diameter 0,5 mm ²)
Terminals SW	1,5 mm ² II2GD Ex-e
PE connection	2 × 4 mm ²
Ambient temperature	-40...+60 °C
Types ...-VA:	-40...+50 °C
Housing material	Aluminium, powder-coated, resp. stainless steel
Dimensions	L × W × H = 125 × 80 × 57 mm,
Types ...-VA:	L × W × H = 160 × 100 × 70 mm
Weight	~ 750 g aluminium housing, stainless steel ~ 1200 g

Special solutions and accessories

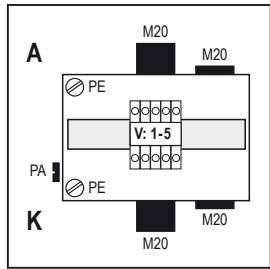
...-CT	Typen in aluminium housing and C5-M finish, parts nickel-plated
...-VA	Types in stainless steel housing V4A / 316L / DIN EN 1.4404
MKK-S	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size S
MKK-M	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size M
Kit-S8 Box	4 cable glands M20 × 1,5 mm Ex-e, brass nickel-plated, Ø 6...13 mm



Variants (aluminium housing)

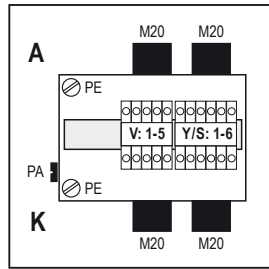
RedBox-3P

B1



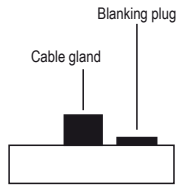
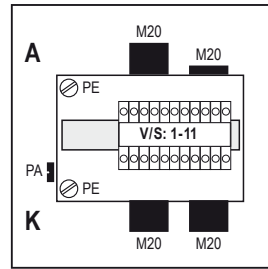
RedBox-Y/S

B2



RedBox-BF

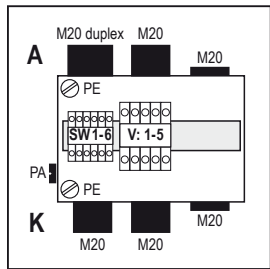
B3



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

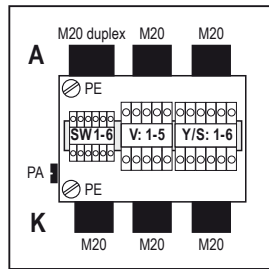
RedBox-3P/SW

B4



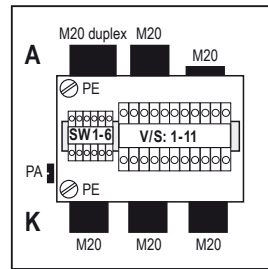
RedBox-Y/S/SW

B5



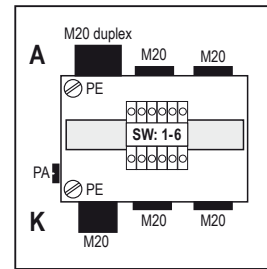
RedBox-BF/SW

B6



RedBox/SW

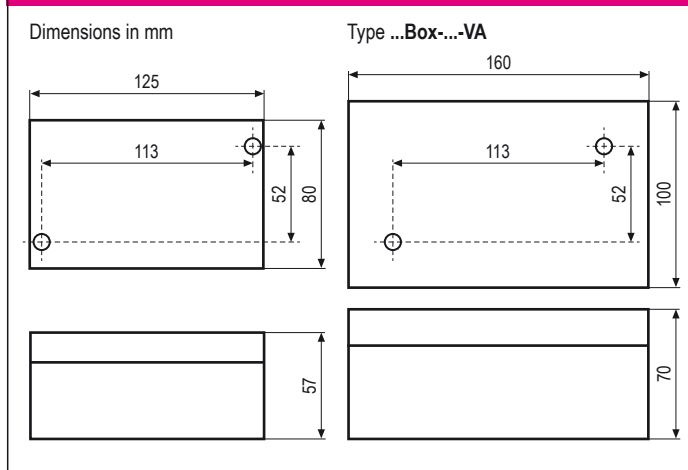
B7



Selection guide

Table with columns for adaptable to (Max/Run actuators) and RedBox variants (3P, Y/S, BF, SW).

Dimensions



Installation

Installation diagram showing Ex area vs Safe area, supply and control connections, and safety instructions.