



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

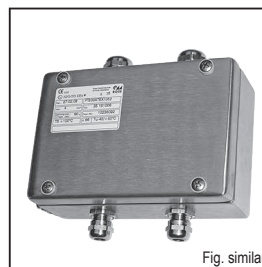


Fig. similar



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.

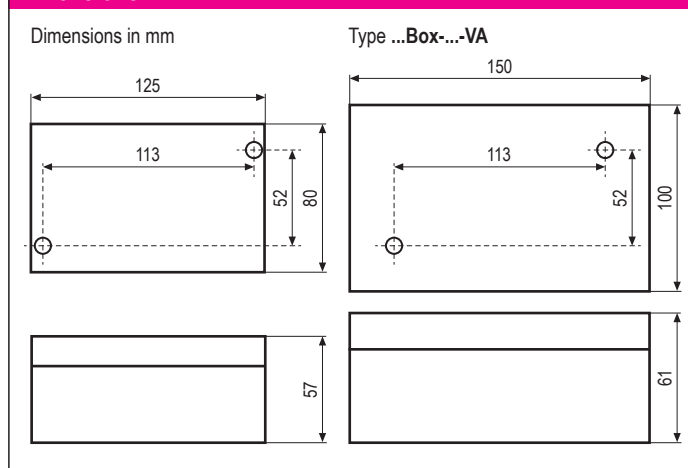
Important

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

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 brass nickel-plated (for cable diameter 2 × Ø 5,5...7,5 mm)
Terminals V and Y/S	4 mm² II2GD Ex-e (minimum diameter 0,5 mm²)
Terminals SW	1,5 mm² II2GD Ex-e
PE connection	2 × 4 mm²
Ambient temperature	-40...+60 °C
Types ...-VA:	-40...+45 °C
Housing material	Aluminium, powder-coated, or stainless steel 1.4404 / 316L
Dimensions (L × W × H)	125 × 80 × 57 mm
Types ...-VA:	150 × 100 × 61 mm
Weight	~ 750 g aluminium housing, stainless steel ~ 1200 g

Special solutions and accessories

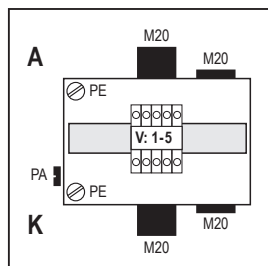
...-CT	Types in aluminium housing with seawater resistant coating, parts nickel-plated
...-VA	Types in stainless steel housing V4A / 316L / DIN EN 1.4404
MKK-S	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size S
MKK-M	Mounting bracket, stainless steel, for ...Box-... on ...Max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



Variants (aluminium housing)

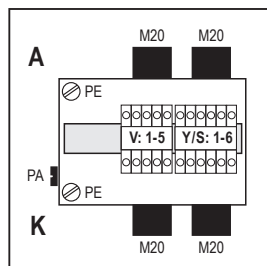
RedBox-3P

B1



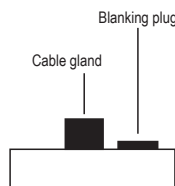
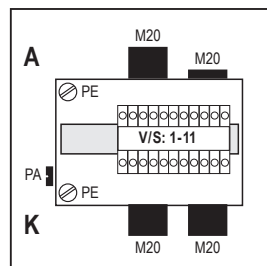
RedBox-Y/S

B2



RedBox-BF

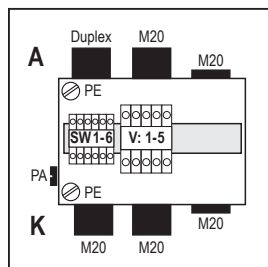
B3



- K** = Supplied by the customer
A = Supplied by the actuator
V = Terminals for supply / On-off/3-pos. control mode
Y = Terminals for continuous control input and feedback signals Y und U
S = Terminals for connection of internal auxiliary switches
SW = Terminals for connection of external auxiliary switches

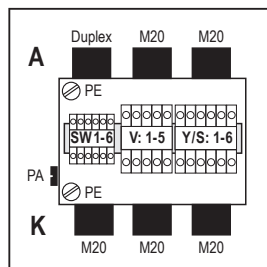
RedBox-3P/SW

B4



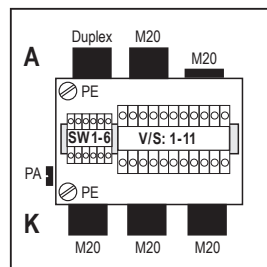
RedBox-Y/S/SW

B5



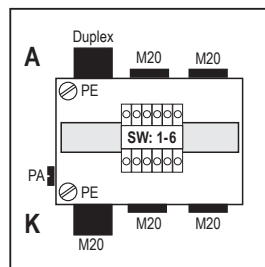
RedBox-BF/SW

B6



RedBox/SW

B7



Selection guide

Adaptable to	RedBox-3P	RedBox-Y/S	RedBox-BF
...Max actuators	RedMax- 5.10 RedMax- 5.10-F RedMax-15.30 RedMax-15-F RedMax-50.75 RedMax-30-F RedMax-100 RedMax-50-F RedMax-150 RedMax-60-F RedMax-... -F1 RedMax-... -F3 RedMax-... -R	RedMax- 5.10-S RedMax- 5.10-SF RedMax- 5.10-Y RedMax- 5.10-YF RedMax-15.30-S RedMax-15-SF RedMax-15.30-Y RedMax-15-YF RedMax-50.75-S RedMax-30-SF RedMax-50.75-Y RedMax-30-YF RedMax-100-S RedMax-50-SF RedMax-100-Y RedMax-50-YF RedMax-150-S RedMax-60-SF RedMax-... -SF1 RedMax-... -SF3	RedMax- 5.10-BF RedMax-15-BF RedMax-30-BF RedMax-50-BF RedMax-60-BF RedMax-... -BF1 RedMax-... -BF3
	RedBox-3P / SW ...Max-... + ...Switch	RedBox-Y/S / SW ...Max-... + ...Switch	RedBox-BF / SW ...Max-... + ...Switch
...Run actuators	RedBox / SW ...Run-... + ...Switch-R-L ...Run-... -Y + ...Switch-R-L		



WARNING

Warning for enclosure with coating

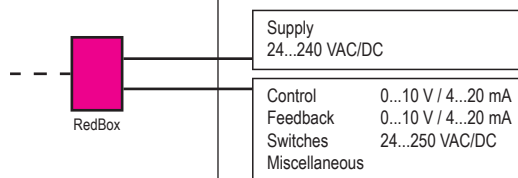
The enclosure with a coating must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

Installation

Ex area – zone 2, 22



Safe area



- Do not open the cover when circuits are live
- Supply cables must be installed in a fixed position and protected against mechanical damage
- Connect potential earth
- Note ambient temperature
- Close all openings with min. IP66
- Regard all national and international standards, rules and regulations
- For electrical installations design, selection and erection, EN/IEC 60079-14 can be used
- For electrical installations inspection and maintenance, EN/IEC 60079-17 can be used
- Warning:** Please note the warning notice for an enclosure with coating!

Approbations

ATEX directive	2014/34/EU
Aluminium housing:	PTB 05 ATEX 1001
	II 2 G Ex eb IIC T6 Gb
	II 2 D Ex tb IIIC T85°C Db IP66
Stainless steel housing:	PTB 00 ATEX 1052X
	II 2 G Ex eb IIC T5 Gb
	II 2 D Ex tb IIIC T100°C Db IP66
IECEx certified	
Aluminium housing:	IECEx PTB 12.0010
	Ex eb IIC T6 Gb
	Ex tb IIIC T85°C Db
Stainless steel housing:	IECEx PTB 07.0060X
	Ex eb IIC T5 Gb
	Ex tb IIIC T100°C Db
Enclosure protection	IP66 in acc. with EN 60529