

ExBox Ex-e terminal box, retrofit

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

Subject to change!

Type	Description	Applications	Installation area	Figure
ExBox- 3P	5 terminals, 2 cable glands	for ExMax-... actuators	Zone 1, 2, 21, 22	B1
ExBox- Y/S	5 + 6 terminals, 4 cable glands	for ExMax-...-S... actuators	Zone 1, 2, 21, 22	B2
	5 + 6 terminals, 4 cable glands	for ExMax-...-Y actuators	Zone 1, 2, 21, 22	B2
ExBox- BF	11 terminals, 3 cable glands	for ExMax-...-BF actuators	Zone 1, 2, 21, 22	B3
ExBox- 3P /SW	5 + 6 terminals + 6 terminals, 3 glands + 1 duplex gland	for ExMax... actuators and ExSwitch	Zone 1, 2, 21, 22	B4
ExBox- Y/S /SW	5 + 6 terminals + 6 terminals, 5 glands + 1 duplex gland	for ExMax-...-S or ...-SF actuators and ExSwitch	Zone 1, 2, 21, 22	B5
	5 + 6 terminals + 6 terminals, 5 glands + 1 duplex gland	for ExMax-...-Y or ...-YF actuators and ExSwitch	Zone 1, 2, 21, 22	B5
ExBox- BF /SW	5 + 6 terminals + 6 terminals, 4 glands + 1 duplex gland	for ExMax-...-BF actuators and ExSwitch	Zone 1, 2, 21, 22	B6
ExBox /SW	6 terminals, 2 cable glands	for ExSwitch	Zone 1, 2, 21, 22	B7
ExBox- ... -CT	Types as above with aluminium housing and seawater resistant coating (cable glands brass nickel-plated)			
ExBox- ... -VA	Types as above with stainless steel housing for aggressive ambient (cable glands brass nickel-plated)			

Product views and applications

ExBox-3P



ExBox-Y/S



MKK-S



...Box- ... -VA

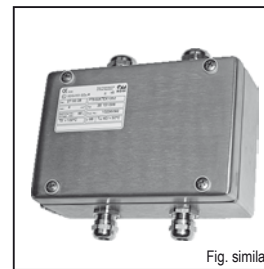


Fig. similar



Description

ExMax actuators are delivered with 1 m cable. In case of cable connection inside hazardous areas a certificated Ex-e terminal box is required. Terminal boxes type ExBox are specially designed for ExMax actuators for installation in hazardous areas zone 1, 2, 21 and 22.

Important

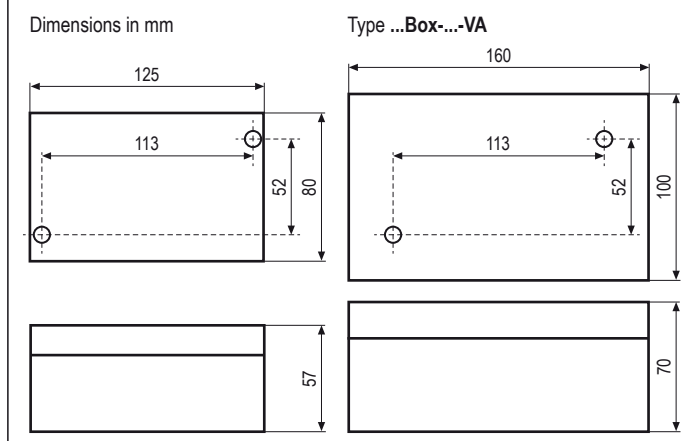
Before opening an Ex-e terminal box the supply voltage of the wiring must be cut.

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

Technical data

Cable glands	M20 × 1,5 mm plastic PA IIGD Ex-e (for cable diameter Ø 6...13 mm)
Cable glands Duplex	M25 × 1,5 mm plastic PA IIGD Ex-e (for cable diameter 2 × Ø 6...8 mm)
Terminals V and Y/S	4 mm ² IIGD Ex-e (minimum diameter 0,5 mm ²)
Terminals SW	1,5 mm ² IIGD Ex-e
PE connection	2 × 4 mm ²
Ambient temperature	-40...+60 °C
Types ...-VA:	-40...+50 °C
Housing material	Aluminium, powder-coated, or stainless steel V4A / 316L / DIN EN 1.4404
Dimensions (L × W × H)	125 × 80 × 57 mm
Types ...-VA:	160 × 100 × 70 mm
Weight	~ 750 g aluminium housing, stainless steel ~ 1200 g

Dimensions

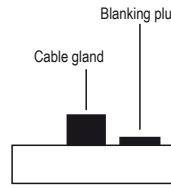
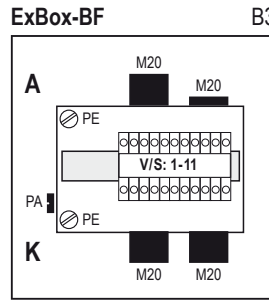
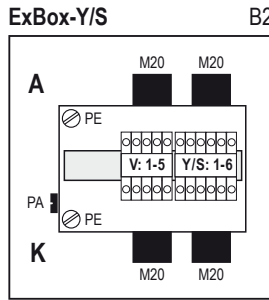
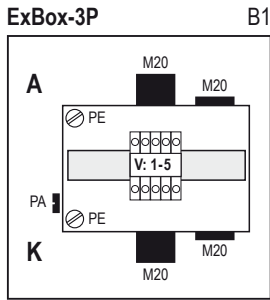


Special solutions and accessories

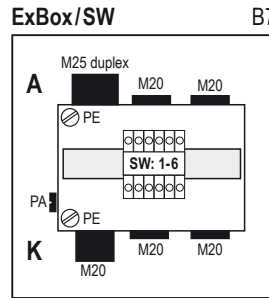
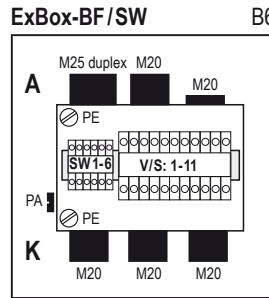
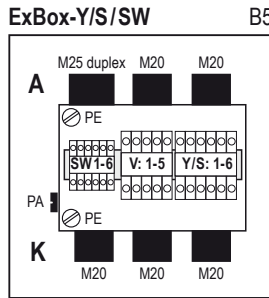
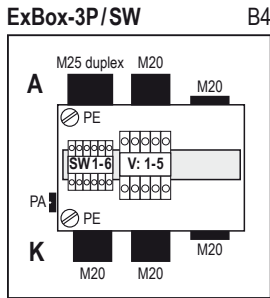
...-CT	Types in aluminium housing with seawater resistant coating, parts nickel-plated
...-VA	Types in stainless steel housing
MKK-S	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size S
MKK-M	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size M
Kit-S8 Box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



Variants (aluminium housing)



- 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



Selection guide

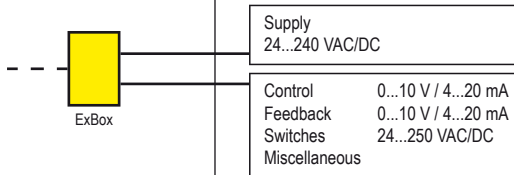
Table with columns for Adaptable to, ExBox-3P, ExBox-Y/S, ExBox-BF, ExBox-3P/SW, ExBox-Y/S/SW, ExBox-BF/SW, ExBox/SW, and Run actuators.

Installation

Ex area - zone 1, 2, 21, 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.

Approbations

Table with columns for ATEX directive (Aluminium housing, Stainless steel housing) and IECEx certified (Aluminium housing, Stainless steel housing).

Table with columns for Enclosure protection (IP66 in acc. with EN 60529).