



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

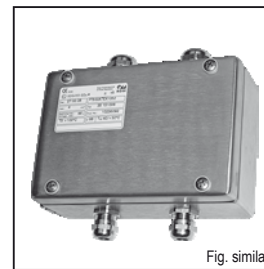


Fig. similar



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

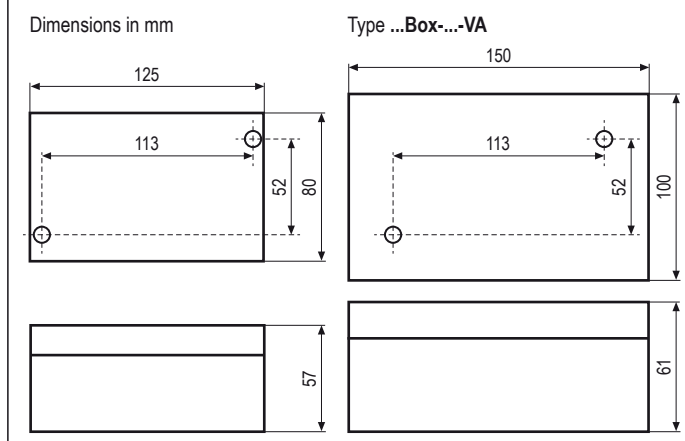
Before opening an Ex-e terminal box the supply voltage of the wiring must be cut.

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 I12GD 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 mm ² I12GD Ex-e (minimum diameter 0,5 mm ²)
Terminals SW	1,5 mm ² I12GD 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 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

Dimensions

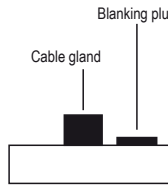
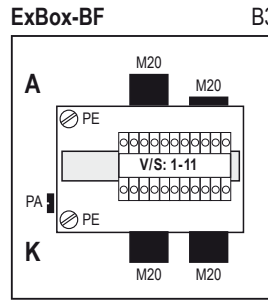
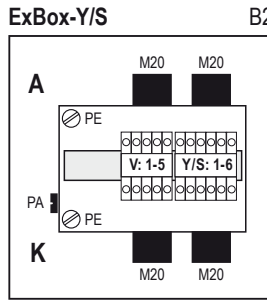
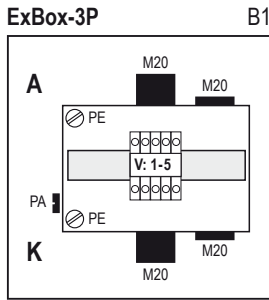


Special solutions and accessories

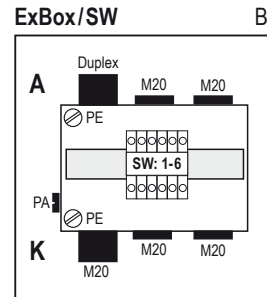
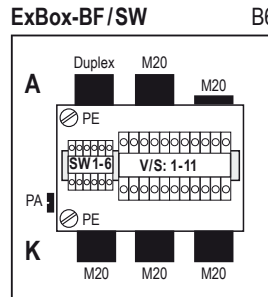
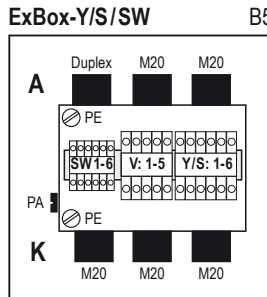
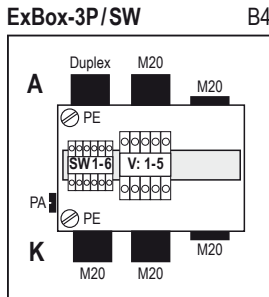
...-CT	Types in aluminium housing with seawater resistant coating, parts nickel-plated
...-VA	Types in stainless steel housing
MKK-S	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size S
MKK-M	Mounting bracket, stainless steel, for ...Box-... on ...Max actuator size M
Kit-S8 Box	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. Lists various actuator models and switch options.



WARNING

Warning for enclosure with coating

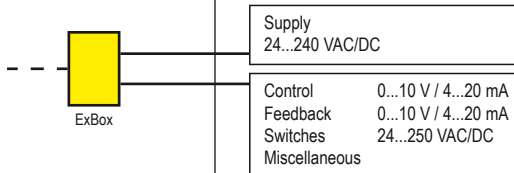
The enclosure with a coating must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

Installation

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
Warning: Please note the warning notice for an enclosure with coating!

Approbations

ATEX directive 2014/34/EU

...Box with aluminium housing

ATEX certified PTB 05 ATEX 1001

IECEX certified IECEX PTB 12.0010

for gas II 2 G Ex e IIC T6, T5, T4 Gb

for dust II 2 D Ex tb IIIC T85°C, T100°C, T135°C Db IP66

CE identification CE № 0158

EAC certified № TC RU C-DE.Г508.B.01510

...Box with stainless steel housing

ATEX certified PTB 00 ATEX 1052

IECEX certified IECEX PTB 07.0060

for gas II 2 G Ex e IIC T5 Gb

for dust II 2 D Ex tb IIIC T90°C Db

CE identification CE № 0035

Enclosure protection IP66 in acc. with EN 60529