



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

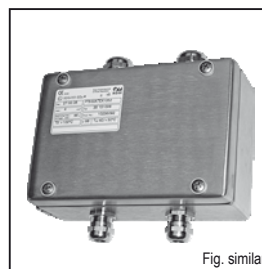


Fig. similar



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

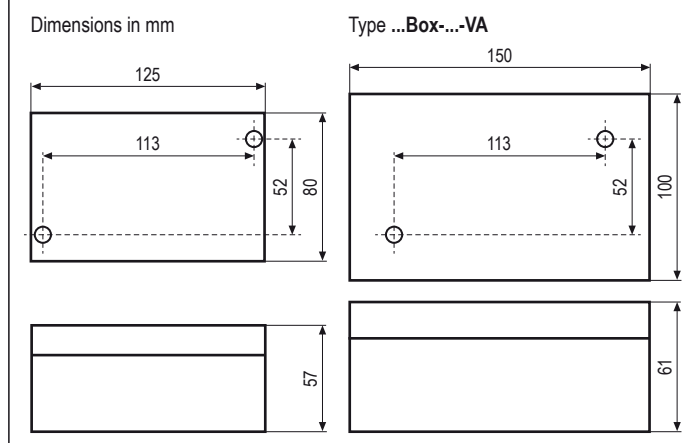
Before opening an Ex-e terminal box the supply voltage of the wiring must be cut.

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 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...+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



ExBox-...

Special options

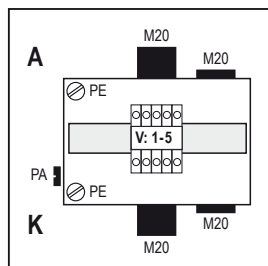
... -CT

... -VA

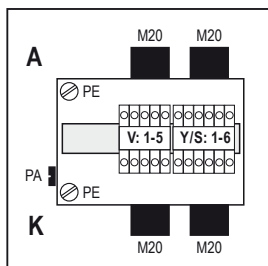
SCHISCHEK
EXPLOSIONPROOF

Variants (aluminium housing)

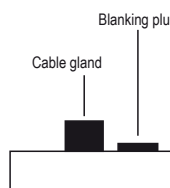
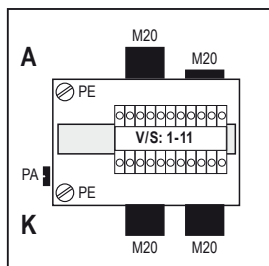
ExBox-3P B1



ExBox-Y/S B2

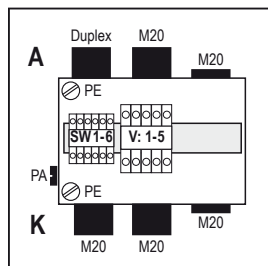


ExBox-BF B3

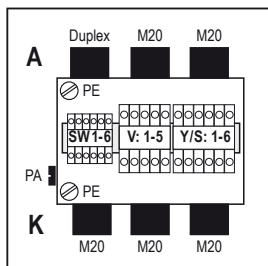


K = Supplied by the customer
A = Supplied by the actuator
V = Terminals for supply / On-off/3-pos. control mode
Y = Terminals for continuous control input and feedback signals Y und U
S = Terminals for connection of internal auxiliary switches
SW = Terminals for connection of external auxiliary switches

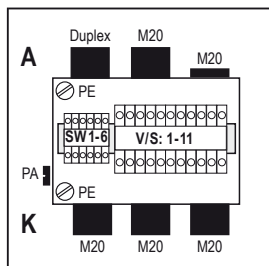
ExBox-3P/SW B4



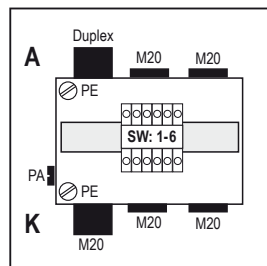
ExBox-Y/S/SW B5



ExBox-BF/SW B6



ExBox/SW B7



Selection guide

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



WARNING

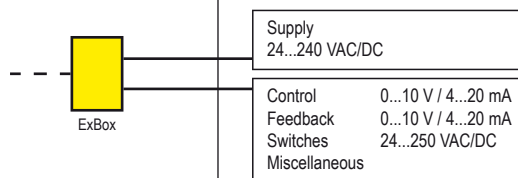
Warning for enclosure with coating

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 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

ExBox_en
V01 – 26-Jan-2021