



ExBin-P Pressure switches 5 Pa ... 5.000 Pa

Electrical, explosion-proof binary pressure/differential pressure switches

5 Pa...100 Pa with adjustable switch activation delay

24 VAC/DC supply voltage, output potential free switching contact

EC type-approved in acc. with ATEX directive 2014/34/EU for zone 1, 2, 21, 22

ExBin - P- ... ExBin - P- ... - 2 ExBin - ... - CT ExBin - ... - OCT ExBin - ... - VA ExBin - ... - OVA

Subject to change!

Figures ...Bin-P-...-2

Compact. Easy installation. Universal. Cost effective. Safe.

Туре	Switch	Supply	Range	min. Setting	max. Pressure	Activation delay	Output switch	Wiring diagram	
ExBin- P- 100	Pressure	24 VAC/DC	0 100 Pa	5 Pa	5.000 Pa	0240 s	potential free contact	SB 1.0	
ExBin- P- 500	Pressure	24 VAC/DC	0 500 Pa	25 Pa	5.000 Pa	-	potential free contact	SB 1.0	
ExBin- P-5000	Pressure	essure 24 VAC/DC 05.000 Pa 250 Pa 50.000 F		50.000 Pa	-	SB 1.0			
ExBin- P 2	TypesP-500 undP-5000 as above with additional switching output 2 × potential free contact SB 1.0								
ExBin- P CT	Types as above with aluminium housing and seawater resistant coating (cable glands M16 brass nickel-plated, screws in stainless steel)								
ExBin- P OCT	Types as above, offshore version with aluminium housing and seawater resistant coating (stainless steel tubes for clamping ring connection,								
	cable glands M20 brass nickel-plated, screws in stainless steel)								
ExBin- P VA	Types as above with stainless steel housing for aggressive ambient (cable glands M20 brass nickel-plated, screws in stainless steel)								
ExBin- P OVA	Types as above, offshore version with stainless steel housing for aggressive ambient (tubes for clamping ring connection and screws in stainless steel,								
	cable glands M20 brass nickel-plated)								

Product views and applications

 Pressure/Diff. press. switch
 ...Bin-P...-CT
 ...Bin-P...-VA
 Offshore ...-OCT
 Offshore ...-OVA

 Image: Comparison of the state of

Description

The ExBin-P-... pressure switch generation from 5...5000 Pa (acc. to type) is a revolution for differential pressure switches in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All pressure switches are programmable on site without any additional tools. The switching points are scalable within the maximum ranges. The integrated display is for parametrisation and an actual value indication at working mode (can be switched off as needed).

...Bin-P-...-2 sensors are equipped with an additional switching output (2-stage), which can be parametrised independently.

...Bin-P-...OCT and ...-OVA offshore versions are equipped with stainless steel tubing Ø 6 mm.

Highlights

- ▶ For all types of gases, mists, vapours and dust for use in zone 1, 2, 21 and 22
- ► Power supply 24 VAC/DC
- ► Potential free switching contact output
- ► Adjustable switching threshold, hysteresis and start-up bypass time
- ► Adjustable switch activation delay (acc. to type)
- Integrated Ex-e terminal box
- ► No addional Ex-i module required
- ▶ No intrinsically safe wiring/installation between panel and sensor required
- ► No intrinsically safe wiring/installation and no space in the panel required
- Optional second switching output (acc. to type)
- ► Display with backlight, can be switched off
- Password locking
- ▶ Down to -20 °C ambient temperature applicable
- ► Compact design and small dimension
- ▶ Robust aluminium housing (optional with seawater resistant coating) or in stainless steel
- ► IP66 protection
- ▶ Offshore versions with pressure tube connection for clamping ring Ø 6 mm

ExBin-P_er V02 - 18-Oct-2016

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ExBin-P...-2

...-CT

...-OCT

...-VA

Special options

...-OVA EXPLOSIONPROOF

Electrical connection Terminals 0,14,2,5 mm² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,4,.0,5 Nm, equipotential bonding 4 mm² Cable glands 2 × M16 × 1,5 mm, Ex-e approved, brass nickel-plated, for cable diameter ~ 0 610 mm VA,OCT,OVA 2 × M20 × 1,5 mm, Ex-e approved, brass nickel-plated, for cable diameter ~ 0 610 mm VA,OCT,OVA 2 × M20 × 1,5 mm, Ex-e approved, brass nickel-plated, for cable diameter ~ 0 610 mm Protection class Class (grounded) Display LC-Display, backli, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs Control elements Aluminium mousing - 180 × 107 × 66 mm, statiness steel housing - 195 × 127 × 70 mm (each without connectors) Neight ~ 950 g aluminium housing, stainless steel version ~ 2,5 kg Ambient temperature -20+50 °C, storage temperature -35+50 °C Bensor circuit Intermainticial stafe (S) circuit Stainless steel housing T 15 (T95 °C) at -20+40 °C, T4 (T130 °C) at -20+50 °C Ambient humidity 0500 °A et al500 °A et al500 °A et al500 °A et al500 °C Stainless steel housing T5 (T95 °C) at -20+40 °C, T4 (T130 °C) at -20+50 °C Stainless steel housing T5 (T95 °C) at -20+40 °C, T4 (T130 °C) at -20+50 °C Stainless steel housing range is 5 % of full range (e, 25 Pa at500 Pa switch)	Technical data	P-100	P-500	P-5000					
Current, power consumption 150 mA, - 4 W, internal fuse 500 mAT, without bracket, not removable Galvanic isolation Supply for reley output min. 1,5 kV Cable glands 2 × M16 × 1,5 mm, Exe approved, for cable diameter ~ 0 50 mm Cable glands 2 × M16 × 1,5 mm, Exe approved, brass nickel-plated, for cable diameter ~ 0 610 m Cable glands - CT 2 × M16 × 1,5 mm, Exe approved, brass nickel-plated, for cable diameter ~ 0 613 mm Protection class Class I (grounded) LC Display, backlit, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs Control elements 3 buttons for configuration seawaler resistant coating (CT/OCT) or stainless steel housing, release thousing, catel. 0 y inmin x1S1 S16N (VA/OVA) Display LC Display back ling for configuration 2.5 kg seawaler resistant coating (CT/OCT) or stainless steel housing, release thousing, release	Supply voltage, frequency	24 VAC/DC + 20 % (19 2 28 8 VAC/D	C) 50/60 Hz						
Salvanic isolation Supply for relay output min. 1,5 kV Electrical connection Terminals 0,142,5 mm at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ² Cable glands,CT 2 × M16 × 1,5 mm, Ex-e approved, for cable diameter ~ 0 610 mm ,VA,,OCT,,OVA 2 × M20 × 1,5 mm, Ex-e approved, brass nickel-plated, for cable diameter ~ 0 613 mm Protection class C Class I (grounded) Display C-Display, backlit, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs Control elements 3 buttons for configuration Housing material Aluminium diversa thousing, coated. Optional with seawater resistant coating (,CT/,OCT) or stainless stele housing, Ne 1.4581 / UNS-J92900 / similar AISI 316Nb (,VAI,OVA) Dimensions (L × W × H) Aluminium housing - 180 × 107 × 66 mm, stainless stele vision - 2,5 kg Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class Aluminium housing - 116 (180 °C) at -20+60 °C Satiness stele housing T (195 °C) at -20+60 °C Satiness stele housing T (195 °C) at -20+60 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class Aluminium nousing - 116 (180 °C) at -20+60 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class Aluminium nousing - 116 (180 °C) at -20+60 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class - Aluminium mousing - 116 (180 °C) at -20+60 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class - Aluminium mousing - 116 (180 °C) at -20+50 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class - Aluminium mousing - 116 (180 °C) at -20+50 °C Ambient temperature - 20+50 °C, storage temperature - 3570 °C Termperature class - Aluminium mousing - 116 (180 °C) at -20+50 °C Satine corection									
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Cable glands 2 × M16 × 1,5 mm, Exe approved, for cable diameter ~ Ø 59 mm Cable glands CT 2 × M16 × 1,5 mm, Exe approved, brass nickel-plated, for cable diameter ~ Ø 610 mm VA,COT,OVA 2 × M20 × 1,5 mm, Exe approved, brass nickel-plated, for cable diameter ~ Ø 610 mm VA,COT,OVA 2 × M20 × 1,5 mm, Exe approved, brass nickel-plated, for cable diameter ~ Ø 610 mm Protection class Class (grounded) Display LCD-isplay, backlit, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs Control elements 3 buttons for configuration Housing material Aluminium dic-cast housing, coated. Optional with seawater resistant coating (CT/OCT) or stainless steel housing, N = 14581 / UNS-J92900 / similar AISI 316Nb (VA/OVA) Dimensions (L × W × H) Aluminium housing - 160 × 107 × 65 mm, stainless steel version ~ 2.5 kg Ambient temperature -2050 °C, storage temperature ~ 35+70 °C Temperature class Aluminium housing T 16 (180 °C) at -20+60 °C Ambient temperature -2050 °C Stainless steel housing T 16 (180 °C) at -20+60 °C - Ambient temperature -2050 °C - Stainless steel housing T 16 (180 °C) at -20+60 °C - - Ambient tempera	Electrical connection								
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Ambient temperature -20+50 °C, storage temperature -35+70 °C Temperature class Aluminium housing T6 (T80 °C) at -20+50 °C Stainless steel housing T5 (T95 °C) at -20+50 °C, T4 (T130 °C) at -20+50 °C Ambient humidity 095 % rH, non condensing Sensor circuit Internal intrinsically safe (IS) circuit Sensor Piezo pressure transmitter, installation in Ex zon Internal intrinsically safe (IS) circuit Pressure connection P+ /P - sleeves Ø 46 mm. OCT versions have 2 stainless steel (316L) tube connections for clamp ring fittings Ø 6 mm Measuring range 0100 Pa 0500 Pa 0500 Pa Minimum measuring range is 5 % of full range (e. g. 25 Pa at500 Pa switch) Maccuracy of pressure 5500 Pa (factory setting 10 Pa) Stati dega 0.100 Pa (factory setting 2 Pa) 0.550 Pa (factory setting 10 Pa) 5500 Pa (factory setting 100 Pa) Start delay 5 s 5 - - Stati delay 0240 s (factory setting 2 s) / 0fi) – – Stati delay 0240 s (factory setting 0 s / 0ff) – – Stati delay 0240 s (factory setting 0 s / 0ff) – –	Dimensions (L × W × H)	Aluminium housing ~ 180 × 107 × 66 m	m, stainless steel housing ~ 195 × 127 × 70 mm (e	each without connectors)					
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Stainless steel housing T5 (T95 °C) at -20+40 °C, T4 (T130 °C) at -20+50 °C Ambient humidity 095 % rH, non condensing Sensor circuit Internal intrinsically safe (IS) circuit Sensor Piezo pressure transmitter, installation in Ex zon Pressure connection P / P - sleves Ø 46 mm. OCT versions have 2 stainless steel (316L) tube connections for clamp ring fittings Ø 6 mm Measuring range 0100 Pa 0500 Pa 0500 Pa Minimum measuring range is 5 % of full range (e. g. 25 Pa at500 Pa switch) 0500 Pa 0500 Pa Accuracy of pressure 41 % typically, max. ±5 % of end value ±1 Pa 500 Pa (factory setting 2 Pa) 0.550 Pa (factory setting 10 Pa) 5500 Pa (factory setting 100 Pa) Start delay 5 s 5 5 5 5 5 Start que ypass time (AUB) 3240 s (factory setting 120 s)	Ambient temperature	-20+50 °C, storage temperature -35.	+70 °C						
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Sensor Piezo pressure transmitter, installation in Ex zone Pressure connection P+ /P - sleeves Ø 46 mm. OCT versions have 2 stainless steel (316L) tube connections for clamp ring fittings Ø 6 mm Measuring range 0100 Pa 0500 Pa 0500 Pa Minimum measuring range is 5 % of full range (e.g. 25 Pa at500 Pa switch) Image: 241 % typically, max. ±5 % of end value ±1 Pa Accuracy of pressure < ±1 % typically, max. ±5 % of end value ±1 Pa	Ambient humidity	095 % rH, non condensing							
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Minimum measuring range is 5 % of full range (e.g. 25 Pa at500 Pa switch) Response time of sensor T90 / 5 s Accuracy of pressure < ± 1 % typically, max. ± 5 % of end value ± 1 Pa	Pressure connection	P+ / P- sleeves Ø 46 mm. OCT versio	ons have 2 stainless steel (316L) tube connections	s for clamp ring fittings Ø 6 mm					
Response time of sensor T90 / 5 s Accuracy of pressure < ± 1 % typically, max. ± 5 % of end value ± 1 Pa	Measuring range	0100 Pa 0500 Pa 05000 Pa							
Accuracy of pressure < ± 1 % typically, max. ± 5 % of end value ± 1 Pa		Minimum measuring range is 5 % of full range (e.g. 25 Pa at500 Pa switch)							
Setting range hysteresis 0,110 Pa (factory setting 2 Pa) 0,550 Pa (factory setting 10 Pa) 5500 Pa (factory setting 100 Pa) Start delay 5 s Start-up bypass time (AUB) 3240 s (factory setting 120 s) Switch activation delay 0240 s (factory setting 0 s / Off) – Setting zero point Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting Output Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) – as above Duration of life Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³ Wiring diagram SB 1.0	Response time of sensor	T90 / 5 s							
Start delay 5 s Start-up bypass time (AUB) 3240 s (factory setting 120 s) Switch activation delay 0240 s (factory setting 0 s / Off) – Setting zero point Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting Output Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) – as above as above Duration of life Mechanical 10 × 10 ⁶ 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³ SB 1.0	Accuracy of pressure	< \pm 1 % typically, max. \pm 5 % of end value	ue ±1 Pa						
Start-up bypass time (AUB) 3240 s (factory setting 120 s) Switch activation delay 0240 s (factory setting 0 s / Off) – – Setting zero point Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting – Output Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) – as above as above Duration of life Mechanical 10 × 10 ⁶ 10 × 10 ⁶ 10 × 10 ³ Wiring diagram SB 1.0 SB 1.0 SB 1.0 SB 1.0	Setting range hysteresis	0,110 Pa (factory setting 2 Pa)	0,550 Pa (factory setting 10 Pa)	5500 Pa (factory setting 100 Pa)					
Switch activation delay 0240 s (factory setting 0 s / Off) - - Setting zero point Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting Output Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) - as above as above Duration of life Mechanical 10 × 10 ⁶ 100 × 10 ³ Wiring diagram SB 1.0 SB 1.0 SB 1.0	Start delay	5 s							
Setting zero point Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting Output Potential free switching contact - breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) - 0,1 A (250 VAC) - 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) - as above as above Duration of life Mechanical Electrical (rated load) 10 × 10 ⁶ 100 × 10 ³ Wiring diagram SB 1.0 SB 1.0 SB 1.0	Start-up bypass time (AUB)	3240 s (factory setting 120 s)							
Output Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA Additional relay output (type2) – as above as above Duration of life Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³ Wiring diagram SB 1.0	Switch activation delay	0240 s (factory setting 0 s / Off) – –							
max. rating load: 0,5 Å (30 VAC/DC) – 0,1 Å (250 VAC) – 0,1 Å (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mÅ Additional relay output (type2) – as above as above Duration of life Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³ Wiring diagram SB 1.0	Setting zero point								
Additional relay output (type2) - as above as above Duration of life Mechanical 10 × 10 ⁶ 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³	Output								
Duration of life Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³ Wiring diagram SB 1.0		max. rating load: 0,5 A (30 VAC/DC) - 0,1 A (250 VAC) - 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA							
Electrical (rated load) 100 × 10 ³ Wiring diagram SB 1.0	Additional relay output (type2)	-	as above	as above					
Wiring diagram SB 1.0	Duration of life Mechanical	10 10							
	Electrical (rated load) 100 × 10 ³							
Scope of delivery Pressure switch, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions), short circuit tube	Wiring diagram	SB 1.0							
	Scope of delivery	Pressure switch, 3 self-tapping screws	4,2 × 13 mm resp. in stainless steel (withCT and	VA versions), short circuit tube					

Approbations		Special se	olutions and accessories	
ATEX directive	2014/34/EU	CT	Types in aluminium housing with seawater resistant coating,	
EC type-approved	EPS 14 ATEX 1 657		parts nickel-plated	
IECEx certified	IECEx EPS 14.0074	OCT	Offshore version in aluminium housing with seawater resistant coating,	
Approval for gas	II 2 (1) G Ex e mb [ia Ga] IIC T6T4 Gb		parts nickel-plated	
TypesCT,OCT	II 2 (1) G Ex e mb [ia Ga] IIB T6 Gb	VA	Types in stainless steel housing, parts nickel-plated	
Approval for dust	II 2 (1) D Ex tb [ia Da] IIIC T80°CT130°C Db IP66	OVA	Offshore version in stainless steel housing, parts nickel-plated	
		MKR	Mounting bracket for round ducts up to Ø 600 mm	
CE identification	CE № 0158	Kit 2	Flexible pressure tube, 2 m, inner Ø 6 mm, 2 connection nipples	
EMC directive	2014/30/EU	Kit-S8-CBR	2 cable glands M16 × 1.5 mm, Ex-e, brass nickel-plated, for cable Ø 510 mm	
Enclosure protection	IP66 in acc. with EN 60529	Kit-Offs-GL-	CBR 2 cable glands M20 × 1.5 mm, Ex-d, Ms-Ni, for armoured cables	
		Kit-PTC-CBR 2 connecting tubes for tube fittings Ø 6 mm, stainless steel 316 L		
EAC	ТС RU C-DE.ГБ08.В.01510			

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Electrical connection

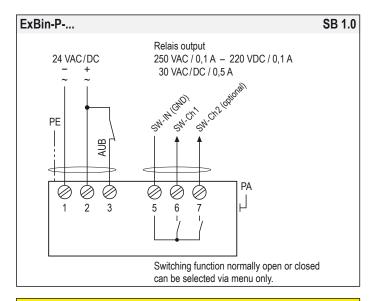
All pressure switches require a 24 VAC/DC power supply. The electrical wiring must be realized via the integrated Ex-e terminal box acc. to ATEX. The terminals' type of protection is "Increased safety Ex-e".

Attention: Before opening the terminal box cover, the supply voltage must be shut off! The supply has to be connected at terminals $1 (-/\sim)$ and $2 (+/\sim)$.

The start-up bypass delay (AUB) can be activated by bridging terminals 2–3. Activation is indicated by a flashing green LED.

 Λ

At different relay and supply voltages (24 VAC/DC) the cable installation must be considered (see "Information for Installation") !

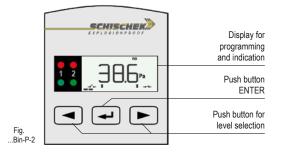


Zero point compensation

...Bin-P-... pressure switches are equipped with a zero point compensation to adjust the module to the installation position. The pressure nipples P+ / P- must be connected with a short circuit tube and the zero point compensation performed by following the menu for parametrisation (menu 14).

Before starting the zero point compensation, the device should be connected to power supply for a minimum of 15 minutes to reach the uniform working temperature!

Display, buttons and parameters



Change operation – parametrisation mode

To change from operation to parametrisation mode and vice versa, push — ENTER button for minimum of 3 seconds. Back to operation mode with menu "save".

Indication of data logging

A flashing unit symbol (star) in the display shows that data is received and the device is working.

Password input

The default/delivery setup is 0000. In this configuration the password input is not activated. To activate the password protection (menu 15) change the 4 digits into your choosen numbers (e.g. 1234) and press ENTER.

Please keep your password in mind for next parameter change! Due to a new parameter setup the password is requested.

Important information for installation and operation

A. Installation, commissioning, maintenance

All national and international standards, rules and regulations must be complied with. Certified apparatus must be installed in accordance with manufacturer instructions. If the equipment is used in a manner not specified by the manufacturer, the safety protection provided by the equipment may be impaired. For electrical installations design, selection and erection, EN/IEC 60079-14 can be used.



Attention: Apply all Ex rules and regulation before opening the internal terminal box. Do not open cover when circuits are live !

Draw the wiring cables through the cable glands. For connection use the internal Ex-e approved terminal box and connect equipotential bonding.

After connection install the cables in a fixed position and protect them against mechanical and thermical damage. Close all openings and ensure IP protection (min. IP66).

Avoid temperature transfer and ensure not to exceed max. ambient temperature! For outdoor installation a protective shield against sun, rain and snow should be applied. After mounting and installation a zero point compensation must be done to ensure correct measurement results (see description).

Sensors are maintenance free. An annual inspection is recommended. For electrical installations inspection and maintenance, EN/IEC 60079-17 can be used. Clean with damp cloth only.

Ex sensors must not be opened and repaired by the end user.

B. Long cabling

We recommend using shielded signal wires and to connect one end of the shield to the ...Bin-... terminal box.

C. Separate ground wires

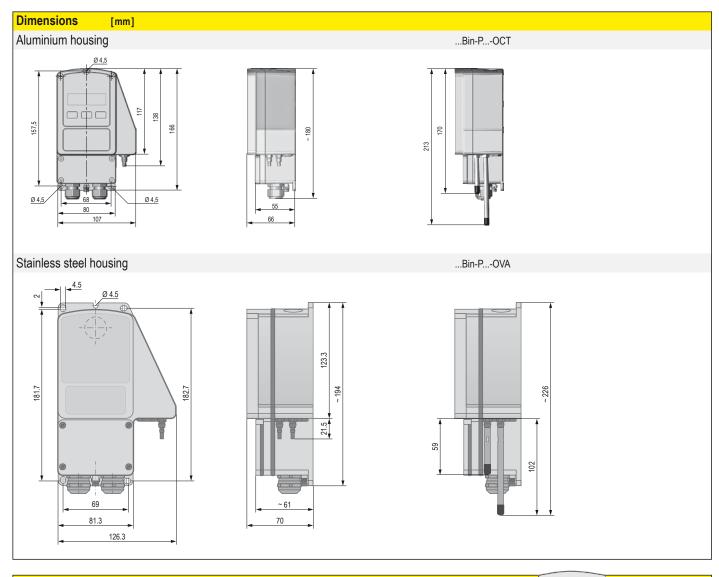
For supply and signal wires use separate grounds.

D. Relais output

Wires for safety extra-low voltage must be installed separately from other circuits. At 24 VAC/DC only supply and signal wires are permitted in one cable, in all other cases use separate or double isolated cables. An over-current protection fuse < 10 A has to be provided by the installer.

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Parametrisation and commissioning

To change from operation to parametrisation mode	
push the "ENTER" button 🛥 for minimum 3 seconds.	
If password protected: type password and push -	
Skip menu with , back to operation mode with	
menu "save".	

 $\mathsf{Operation} \to \mathsf{Parametrisation}$ push 🛥 for min. 3 s



ENTER Next menu Menu Function ENTER Indication Select ENTER **Next indication** Select PSEE Menu 1 Preset PRO ◄] ┛ ┛ Select application FAN, FILT, PRO Menu 2 Unit sensor ◄┛ טה וב Select physical unit Pa Pa, mbar, inH₂O Menu 3 set 1 SEL I Ĩ<u>Ô</u>.0,ª **~** ┛ Select switching point 1 set 2 (optional) * Select switching point 2 Menu 4 400.0 SEF5 [◄] enter setpoi hysteresis ** Menu 5 HYSE [◀┛] Select hysteresis enter hysteresis Menu 6 mode ** UΡ̈́ [◀┛] ┛ Select switching properties (break contact, make contact) ModE \checkmark NC Up, Down, Mid ' nc no Menu 7 no function - menu skip Continue next page

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Special options ...-CT ...-OCT ...-VA ...-OVA

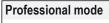
Continue Parametrisation										
Menu	Function		ENTER	Indication	Select	ENTER	Next indication	Select	ENTER	Next menu
Menu 8	no function – menu skip									
Menu 9	no function – menu skip									
Menu 10	no function – menu skip									
Menu 11	no function – menu skip									
Menu 12	time Select bypass (AUB) time	E Menul2+	Ł		enter seconds for Al					
Menu 13	display setting Select display	LAMP	Ł		on, off					
Menu 14	Zero point compensation Sensor's calibration for its installation position		Ł							
Menu 15	security Select password protection		L		enter password					
Menu 16	save Select: save data, discard, back to menu, factory setting	SAVE	Ł	yes	Yes, no, menu, dset	(default setting)	(operation mode afte	er "save")		

* for ...Bin-P-...-2 only (2-stage)

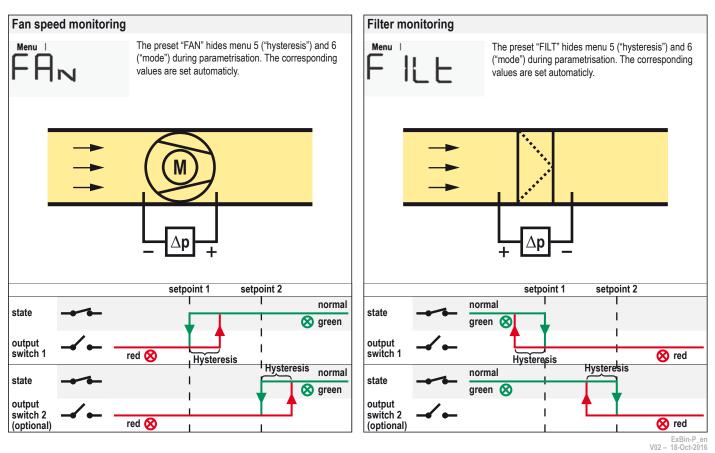
** adjustable in professional mode only (menu 1)

Menu 1 "pset" – Preset

For some applications you can select presetting to ease parametrisation. Besides fan belt ("FAN") and filter monitoring ("FILT") the professional mode ("PRO") is available for further applications.



 When this mode is selected the switching properties can be set at will per menu 5 ("hysteresis") and 6 ("mode") acc. to requirements.



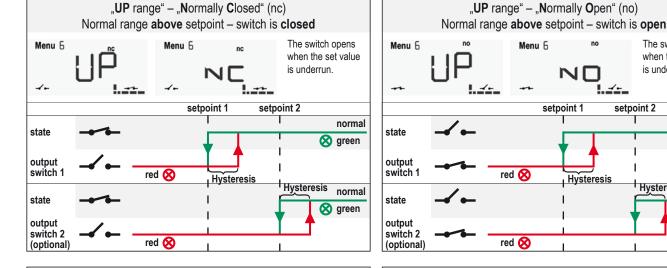
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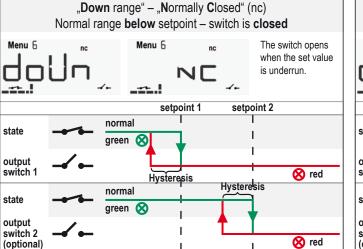


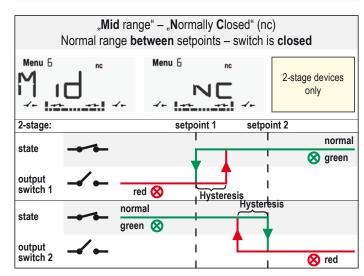
Menu 6 "mode" – Switching properties

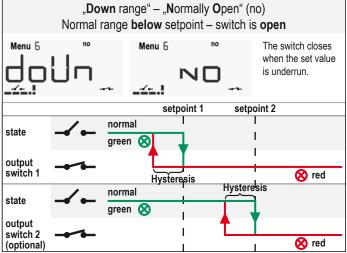
- 1. Define the device's normal range first:
 - The device should indicate (green LED) when the temperature/humidity is
 - · above the setpoints - mode "up-range" has to be selected.
 - mode "down-range" has to be selected. under the setpoints
 - between the setpoints mode "mid-range" has to be selected. This mode is available for 2-stage devices only (...Bin-P...-2).
- When the measured value is in normal range, the corresponding relays shall close – select "normally closed" (nc)
 - open select "normally open" (no)

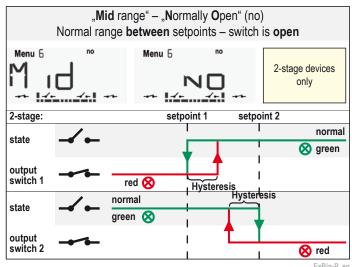
2. Select the switching charateristic of the output relay:











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The switch closes

when the set value

normal

normal

🚫 green

🚫 green

is underrun

Hysteresis

setpoint 2

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