



RedBin-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 2, 22

RedBin - P- ... - 2
RedBin - ... - CT
RedBin - ... - OCT
RedBin - ... - VA

RedBin - ... - OVA

Subject to change!

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

Туре	Switch	Supply	Range	min. Setting	max. Pressure	Activation delay	Output switch	Wiring diagram			
RedBin- P- 100	Pressure	24 VAC/DC	0 100 Pa	5 Pa	5.000 Pa	0240 s	potential free contact	SB 1.0			
RedBin- P- 500	Pressure	24 VAC/DC	0 500 Pa	25 Pa	5.000 Pa	-	potential free contact	SB 1.0			
RedBin- P-5000	Pressure	24 VAC/DC	05.000 Pa	250 Pa	50.000 Pa	-	potential free contact	SB 1.0			
RedBin- P 2	TypesP-	500 undP-500	0 as above with a	dditional switching	output		2 × potential free contact	t SB 1.0			
RedBin- P CT	Types as a	bove with alumin	ium housing and	seawater resistant o	coating (cable glands M16	6 brass nickel-plated, s	crews in stainless steel)				
RedBin- P OCT	Types as a	bove, offshore ve	ersion with alumini	ium housing and se	awater resistant coating ((stainless steel tubes fo	or clamping ring connection,				
	cable gland	cable glands M20 brass nickel-plated, screws in stainless steel)									
RedBin- P VA	RedBin- P VA Types as above with stainless steel housing for aggressive ambient (cable glands M20 brass nickel-plated, screws in stainless steel)										
RedBin- P OVA	Types as a	bove, offshore ve	ersion with stainles	ss steel housing for	aggressive ambient (tube	es for clamping ring co	nnection and screws in stair	nless steel,			
	cable gland	ds M20 brass nicl	kel-plated)								

Product views and applications

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

Pressure/Diff. press. switch



...Bin-P...-CT



...Bin-P...-VA



Offshore ...-OCT



Offshore ...-OVA



Description

The RedBin-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 2 (gas) and zone 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 switches 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 \emptyset 6 mm.

Highlights

- ► For all types of gases, mists, vapours and dust for use in zone 2 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 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

RedBin-P_e V02 - 7-Apr-201



...-CT

...-OCT ...-VA

...-OVA



Technical data	P-100	P-500	P-5000						
Supply voltage, frequency	24 VAC/DC ±20 % (19,228,8 VAC/DC	C), 50/60 Hz							
Current, power consumption	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable								
Galvanic isolation	Supply for relay output min. 1,5 kV								
Electrical connection	erminals 0,142,5 mm² at integrated Ex terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm²								
Cable glands	× M16 × 1,5 mm, Ex approved, for cable diameter ~ Ø 59 mm								
Cable glandsCT	2 × M16 × 1,5 mm, Ex approved, brass n	× M16 × 1,5 mm, Ex approved, brass nickel-plated, for cable diameter ~ Ø 610 mm							
VA,OCT,OVA	2 × M20 × 1,5 mm, Ex approved, brass n	nickel-plated, for cable diameter ~ Ø 613 mi	m						
Protection class	Class I (grounded)								
Display	LC-Display, backlit, for configuration, use	er guidance, parameter and actual value indic	eation. Status indicator via LEDs						
Control elements	3 buttons for configuration								
Housing material	Aluminium die-cast housing, coated. Opt	ional with seawater resistant coating (CT/.	OCT) or stainless steel housing,						
	№ 1.4581 / UNS-J92900 / similar AISI 31	16Nb (VA/OVA)							
Dimensions (L × W × H)	Aluminium housing ~ 180 × 107 × 66 mm	n, stainless steel housing ~ 195 × 127 × 70 m	nm (each without connectors)						
Weight	~ 950 g aluminium housing, stainless ste	el version ~ 2,5 kg							
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+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 zone							
Pressure connection	P+ / P- sleeves Ø 46 mm. OCT version	ns have 2 stainless steel (316L) tube connect	tions for clamp ring fittings Ø 6 mm						
Measuring range	0100 Pa	0500 Pa	05000 Pa						
	Minimum measuring range is 5 % of full r	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	e ±1 Pa							
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	h tube connectors P+ / P- for the moment of	zero point setting						
Output	Potential free switching contact – breaking	ng/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								
Scope of delivery	Pressure switch, 3 self-tapping screws 4,	,2 × 13 mm resp. in stainless steel (withCT	andVA versions), short circuit tube						

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CT	Types in aluminium housing with seawater resistant coating,					
	parts nickel-plated					
OCT	Offshore version in aluminium housing with seawater resistant coating,					
	parts nickel-plated					
VA	Types in stainless steel housing, parts nickel-plated					
OVA	Offshore version in stainless steel housing, parts nickel-plated					
MKR	Mounting bracket for round ducts up to Ø 600 mm					
Kit 2	Flexible pressure tube, 2 m, inner Ø 6 mm, 2 connection nipples					
Kit-S8-CBR	2 cable glands M16 \times 1.5 mm, Ex-e, brass nickel-plated, for cable Ø 510 mm					
Kit-Offs-GL-0	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						

CSA – Hazardous Location – EMPLACEMENTS DANGEREUX

This equipment is suitable for installation in Class I, Division 2, Group A, B, C, D hazardous locations or nonhazardous locations only. CET ÉQUIPEMENT EST SEULEMENT APPROPRIÉ À L'INSTALLATION DANS LA CLASSE I, DIVISION 2, GROUPES A, B, C, D DES EMPLACEMENTS DANGEREUX OU DES EMPLACEMENTS NON DANGEREUX.

WARNING - EXPLOSION HAZARD:

Substitution of components may impair suitability for Class I, Division 2.

AVERTISSEMENT - RISQUE D'EXPLOSION :

LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2.

WARNING - EXPLOSION HAZARD:

Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous.

AVERTISSEMENT - RISQUE D'EXPLOSION :

NE PAS BRACHER OU DÉBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, NE PAS BRACHER OU DEBKANCHER IANI QUE LE SILVES... — À MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX. RedBin-P_en V02 - 7-Apr-2017

...-CT

...-OCT

...-OVA

...-VA



Electrical connection

All pressure switches require a 24 VAC/DC power supply. The electrical wiring must be realized via the integrated Ex terminal box acc. to ATEX.

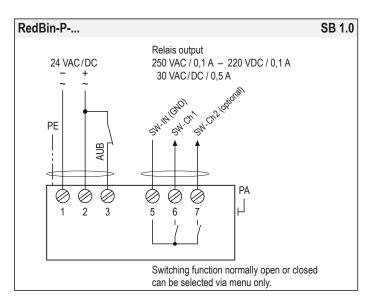
Attention: Before opening the terminal box cover, the supply voltage must be shut off! The supply has to be connected at terminals $1 (-/\sim)$ and $2 (+/\sim)$.

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



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





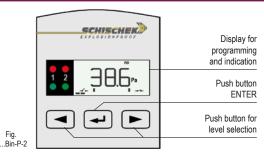
Zero point compensation

...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!

Approbations ATEX directive 2014/34/EU EC type-approved EPS 14 ATEX 1 658 IECEx certified IECEx EPS 14.0075 Approval for gas II 3 (1) G Ex nC [ia Ga] IIC T6T4 Gc TypesCT,OCT II 3 (1) G Ex nC [ia Ga] IIB T6 Gc Approval for dust II 3 (1) D Ex tc [ia Da] IIIC T80°CT130°C Dc IP66 CE identification CE № 0158 EMC directive 2014/30/EU Enclosure protection IP66 in acc. with EN 60529 EAC TC RU C-DE.ΓБ08.B.01510 CSA 13.2672226 Aluminium housing Class Division Class I, Division 2, Groups ABCD, T6, IP66 Ex nA IIC Gc TypesCT,OCT Ex nA IIB Gc Class Zone Class I, Zone 2, AEx nA IIC T6 Gc, IP66 TypesCT,OCT Class I, Zone 2, AEx nA IIB T6 Gc, IP66							
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••	TypesCT,OCT	Class I, Zone 2, AEx nA IIB T6 Gc, IP66					

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.

Canada: Install per Canadian Electrical Code (CEC). USA: Install per National Electrical Code (NEC).



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 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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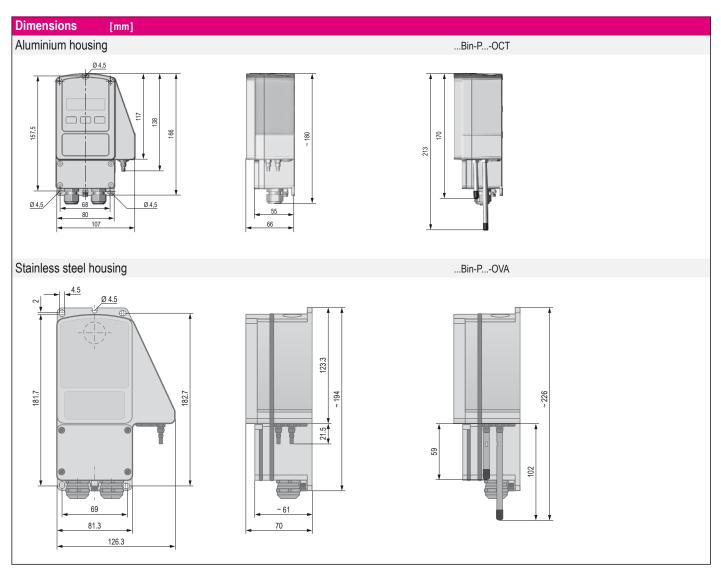
...-CT

...-OCT

...-VA

...-OVA





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".

 ${\sf Opera} \underline{\underline{\mathsf{Tor}}} \to {\sf Parametrisation}$ push 🕶 for min. 3 s



Menu		Function		ENTER	Indication	Select	ENTER	Next indication	Select EN	ER Next menu
Menu	1	Preset Select application	PSEL	L	PR0	FAN, FILT, PRO	—			•
Menu	2	Unit sensor Select physical unit	Un ₁E	L	Menu 2	Pa, mbar, inH ₂ O	—			•
Menu	3	set 1 Select switching point 1	SEL I	L	Menu 3	enter setpoint	—			•
Menu	4	set 2 (optional) * Select switching point 2	SEF5	4	Menu 4	enter setpoint	4			•
Menu	5	hysteresis ** Select hysteresis	+Menu 5+ H 45 L	4	Menu 5	enter hysteresis	4			•
Menu	6	mode ** Select switching properties (break contact, make contact)	ModE	L	Menu 6	Up, Down, Mid *	—	Menu 6	nc, no	
Menu	7	no function – menu skip								

Continue next page

...-CT ...-OCT

...-VA

...-OVA



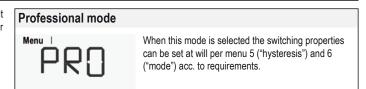
Continue Parametrisation

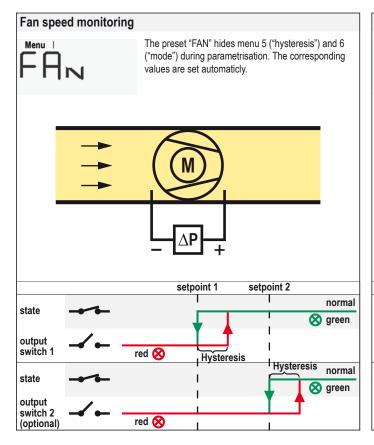
Menu	Function		ENTER	Indication	Select	ENTER	Next indication	Select	ENTER	Next menu
Menu 8	no function – menu skip									
Menu 9	no function – menu skip									
Menu 10	no function – menu skip									
Menu 11	no function – menu skip									
Menu 12	time Select bypass (AUB) time	E IME	4	Menu12	enter seconds for Al					•
Menu 13	display setting Select display	LAMP	4	Menul3	on, off	—				•
Menu 14	Zero point compensation Sensor's calibration for its installation position	-Menu14+	L	Menul4					_	
Menu 15	security Select password protection	SECU	4	Menu15	enter password	—				A
Menu 16	save Select: save data, discard, back to menu, factory setting	SA'VE	+	JE5	Yes, no, menu, dset	(default setting)	(operation mode after	er "save")		

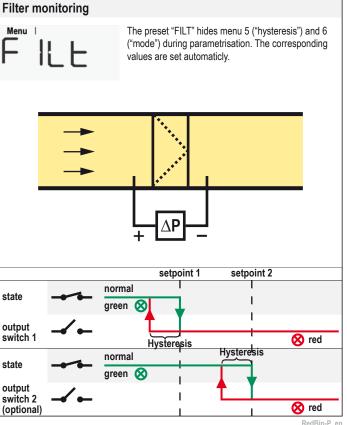
^{*} for ...Bin-P-...-2 only (2-stage)

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.







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^{**} adjustable in professional mode only (menu 1)

...-CT

...-OCT

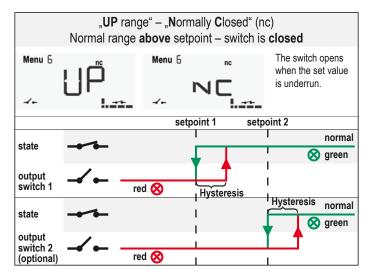
...-VA

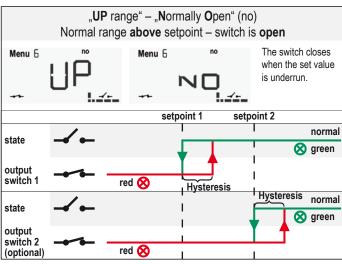
...-OVA

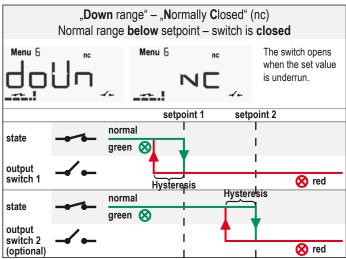


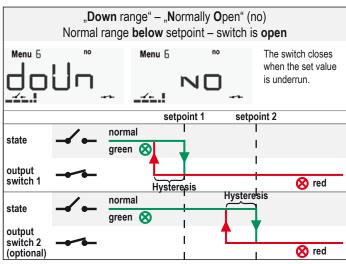
Menu 6 "mode" - Switching properties

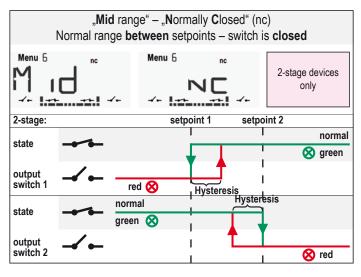
- 1. Define the device's normal range first:
 - The device should indicate (green LED) when the pressure is
 - above the setpoints mode "up-range" has to be selected.
 - under the setpoints mode "down-range" has to be selected.
 - between the setpoints mode "mid-range" has to be selected.
 This mode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

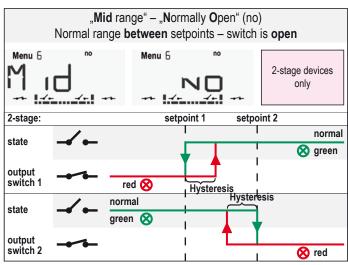












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