Operation:

The pressure switch should be installed and operated only by authorized persons.

After being switched on the UDS7-BX runs through a self-test. The device is menu operated and con gured with three keys on the front.

With the "M" key (= mode) you change between the dialog values and the adjusted/actual values. With the keys "▲" = up and "▼"= down you change between the dialog values in the menu or change the

values/functions in the menus (see below: "List of functions").

If the dialog is not continued within two minutes the device automatically returns to the measuring mode. When the programming lock is entered, "LOCK" appears in the display when an attempt is made to change values.

Programming:

The setting menu is activated with the mode key. The dialog items are selected with the "A" and "▼" keys. If the mode key is pressed again the corresponding value for the dialog item is shown and can be altered with the "▲" and "▼" keys. If the dialog with the unit is not continued within two minutes the device auto-matically returns to the measuring mode without accepting the

To terminate programming more guickly, you can switch back to the measuring mode (primary menu) from any item in the menu by pressing and holding the M-key for ve seconds.

If the programming lock has been activated, the values can be shown, but no changes made, i.e. when Level 0 is active ("LOCK" appears in the display when an attempt is made to change values).

Agency Approvals:

CE 0081

ISSeP 09 ATEX 034X

⟨**Ex**⟩ | | 2 G D

Ex d IIC T6

Ex tD A21 IP65 T80°C

 $-40^{\circ}C \leq Tamb \leq +60^{\circ}C$

Barksdale

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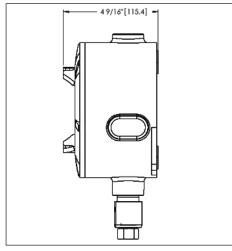
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For models shipped before November 23, 2013

Operating Instructions Solid State Dual Switch UDS7-BX

UDS7-BX **Dimensions** (in) 5 1/8"[130.1] 2 X Ø.34[9] 5 1/8" [130.1] 9 7/8"[250.7]



1. Product description

Intended Applications

- This dual pressure switch is a device to monitor system pressure and has up to two switching outputs and one analog output.
- This instrument should only be installed in systems where the maximum pressure (Pmax) is not exceeded, according to the values on the type label.
- Attention: This device is not designed to be used as the only safety relevant element in a pressurized system according to PED 97/23/EC.

2. Starting operations

Caution: To reduce the risk of ignition of hazardous atmospheres, disconnect the device from the supply circuit before opening. Keep assembly tightly closed when in operation.

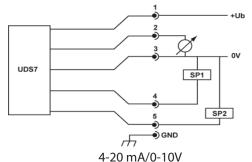
Only assemble or disassemble the device with no pressure applied!

Connecting the switch

- Mount the pressure switch from bottom to the ting with a wrench and no more than 45 Nm torque.
- Electrical connection: 3/4" NPT female. Seal with certified junction box.
- Process connection: 1/4" NPT female (std).

Electrical connections

Terminal	Description
Connection	
6-Position	
Pin 1	Voltage (Ub): 15-28 VDC
Pin 2	Analog: 4-20 mA or 0-10 voltage
Pin 3	Common (-)
Pin 4	SP1: 0.4 A Max
Pin 5	SP2: 0.4 A Max
Pin 6	Internal Ground



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Dialog item	Value	Description
MENÜ	-19999	Primary display, e.g. the value selected in the DISP menu appears here
DISP		Display value which should be permanently in the display:
		act actual measured value
		sp1 switching point SP1
		sp2 switching point SP2
		max maximum peak value
		min minimum peak value
ACT.		-19999 Display of actual measured value in bar
UNIT		Fixing the unit
	bar	bar = bar The unit is shown in the display appr
	psi	psi $x = psi x 10$ every 30 sec. for appr. 5 sec.
	psi	psi = psi
	HPa	HPa = Hekto-Pascal
	mbar	mbar = millibar
UND		Unit display "on" or "off"
SP.1		none switching output deactivated
		wind window technology
		stnd standard evaluation SP2
		erro error output
ON-1	-1 xxxx	Switch-on point for SP1; if the ON value is smaller than the OFF
value		the switching point evaluation is falling
OFF-1	-1 xxxx	Switch-off point for SP1
DLY1	0,0s9,9s	Switch-on / switch-off delay for SP1 in seconds
INV-1		Inversion of switching output SP1
		hlfs high-level-fail-save (normally open function)
		Ilfs low-level-fail-save (normally closed function)
SP.2		none switching output deactivated
		wind window technology
		stnd standard evaluation SP2
		erro error output
ON-2	-1 xxxx	Switch-on point for SP2;
		if the ON value is smaller than the OFF value
		the switching point evaluation is falling
OFF-2	-1 xxxx	Switch-off point for SP2
DLY2	0,0s9,9s	Switch-on / switch-off delay for SP2 in seconds
INV-2		Inversion of switching output SP2
		hlfs high-level-fail-save (normally open function)
		Ilfs low-level-fail-save (normally closed function)
MAX	-1 xxxx	Display of peak value
CLRH		Delete the maximum value memory
		no deletion
		clr delete value

Dialog item	Value	Description
CDLY	0,0s9,9s	Time setting to delete the maximum value memory after switching
		point SP1 is reached (manual deletion is still possible)
MIN	-1 xxxx	Display of peak value "Min"
CLRL		Delete the minimum value memory
		no deletion
		cir delete value
OFFS	-9,9+xx	Measured value offset in bar
CUT	0,0 +xx	Cut-off. e.g. signal suppression at measuring range start in bar
DLDS	0,0 9,9s	Time delay for currently displayed value in seconds
ERRC		Error messages:
		0: -ok- no error
		1: max exceeding pos. measuring range
		2: min exceeding neg. measuring range
		3: dig1 switching output 1 error
		4: dig2 switching output 2 error
		5: anao analog output error
		6: sens sensor error
		7: data data error (EEProm)
		8: prog program error
		9: cal calibration error
V7.X	Lev0Lev2	Programming lock indication (see code)
		Version display with actual input level:
		0: only display of operating parameters, no changes possible
		1: only switching points can be set ("max" and "min" memories)
		2: release user level (all operating parameters for customer)
LITH	20 100	Change display brightness 20100%
		(only for units with Dot-Matrix display)
AOZS	0 9999	Scale the analog output - start value (e. g. 0 bar = 4 mA)
AOFS	0 9999	Scale the analog output - end value (e. g. 400 bar = 20 mA)
		(output signal start value always corresponds to the display initial
		value, e. g. 0 bar = 4mA)
		Maximum turn-down 4: 1, i.e. at values below 25 % of the
		measuring range the analog output is switched off
CODE	000999	Security Sequence
		Lev1: 471 Allow to change switching point parameters only
		Lev2: 740 Able to reconfigure all allowable parameters
		Lev0: 999 All parameters will be lock
OPT (onlyV7.X)		For internal use only