

# Compact Pressure Switches

## Type 9671X / 9681X

Diaphragm seal piston sensor in explosion proof housing,  
for hazardous areas,  
accuracy class 2% f. s.

### Features

Stainless steel body and parts,  
Flameproof enclosure according to ATEX, UL, CSA,  
Safe to adjust during operation,  
1 switching contact (SPDT)

### Adjustment ranges

Type 9671X: -0.17 bar ... -1 bar, vacuum

Type 9681X: 0.33 ... 34.4 bar, pressure

### Applications

Process Industry,  
Petrochemical Plants,  
Machine Tool Industry,  
Compressors



### Technical Data

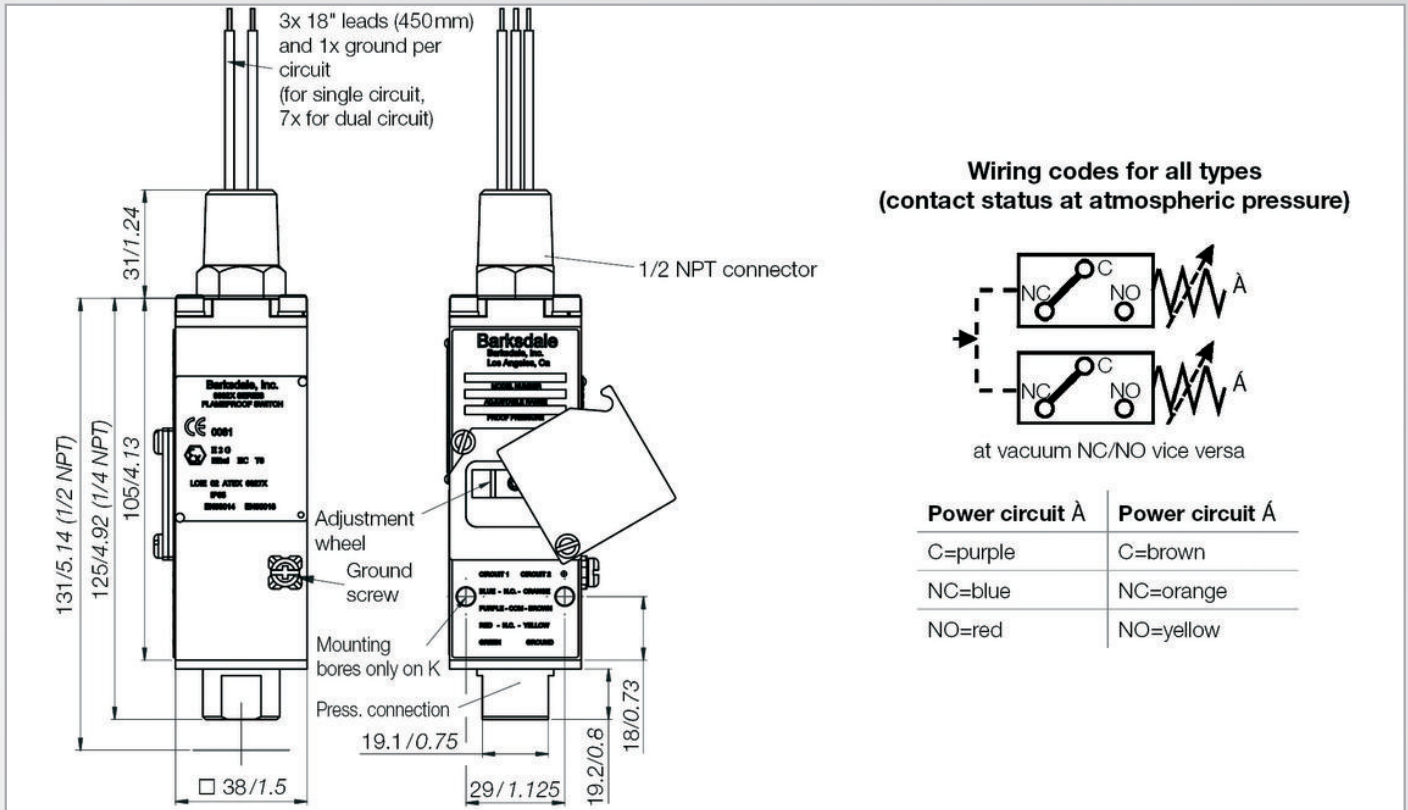
<b>Wetted parts:</b>	
Process fitting:	Stainless steel, material no. 1.4401
Seals:	FKM, PTFE support ring
Diaphragm:	FKM
<b>Repeatability:</b>	±2 % f. s.
<b>Switching rate:</b>	max. 30/min
<b>Temperature range:</b>	-30 °C... +75 °C
<b>Protection class:</b>	IP65
<b>Housing:</b>	Stainless steel 1.4401, explosion proof
<b>Process connection:</b>	1/4" NPT female thread
<b>Electrical connection:</b>	1/2" NPT AG male conduit connector 18 AWG 18" (450 mm) lead wire, PVC jacket
<b>Switch type:</b>	Switch contact SPDT
Rating:	11 A, 125 / 250 V AC 5 A, 30 V DC 1 A, 125 V DC
Option:	1 switching contact, 1 x DPDT

<b>Weight:</b>	375 g
<b>Set point adjustment:</b>	Turn the adjustment wheel clockwise to increase the set point
<b>Vibration resistance:</b>	10 g, sine 10...500, MIL-STD 202F
<b>Shock resistance:</b>	50 g, 11 ms, MIL-S-901C
<b>Approvals:</b>	CENELEC Ex d II C T6, UL #E37043, CSA #LR22354 and Division I Class I, Group A, B, C & D; Class II, Group E, F & G
<b>Certificate no.:</b>	LCIE 02 ATEX 6027X
<b>Options:</b>	Dual circuit 2 SPDT switches with DPDT function Gold contact switch, 1 A, 125 V AC Ex terminal box Tamper proof cover

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### Dimensions (mm / inch)



### Wiring code

Function	Pressure 9681X		Vacuum 9671X		Option
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	
Normally Open / NO	red	yellow	blue	orange	K with mounting holes
Common / C	purple	brown	purple	brown	
Normally Closed / NC	blue	orange	red	yellow	
Earth	green		green		

### Pressure Ranges

Ordering code 1 Switch contact SPDT (standard)	Ordering code 1 Switch contact DPDT (option)	Adjustment ranges [bar]				Max. hysteresis (end of range) [bar]	Max. operating pressure [bar]	Proof pressure [bar]
		Increasing press.		Decreasing press.				
		min.	max.	min.	max.			
9681X-1CC-1	9681X-2CC-1	0.33	1.03	0.13	1.0	0.2	45	68
9681X-1CC-2	9681X-2CC-2	0.20	10.30	0.34	9.0	1.7	45	68
9681X-1CC-3	9681X-2CC-3	4.40	20.60	1.70	18.0	2.7	45	68
9681X-1CC-4	9681X-2CC-4	8.50	34.40	4.40	30.0	4.1	45	68
Vacuum switches								
9671X-1CC	9671X-2CC	-0.17	-1.00	-0.034	-0.71	0.3	---	2

### Accessories

Order Number	Description
926-0811	Ex d - Terminal box incl. terminal (drawing 923-1533 on request)
999-0081	Tamper proof cover