

Pressure Switches

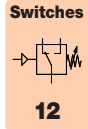
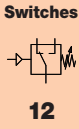
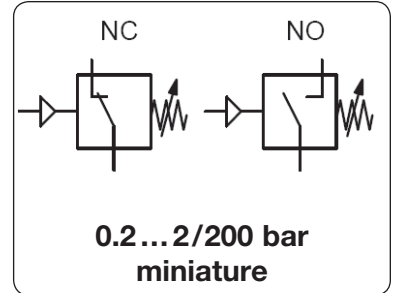
	Description	Pressure range bar	Connection thread	Device	Page
Pressure	miniature, low cost	0.2 ... 2 / 200	G $\frac{1}{8}$ and G $\frac{1}{4}$	DS08... DS46	12.02
	many variations	0.1 ... 1 / 200	G $\frac{1}{8}$ m and G $\frac{1}{4}$ m	DS16... DS18	12.03
	low pressure, handwheel	0.005 ... 0.02 / 12	G $\frac{1}{8}$ f and G $\frac{1}{4}$ f	DSP	12.05
	low pressure, plastic	0.003 ... 0.03 / 7	$\frac{1}{8}$ "NPT m	F4200	12.06
	small hysteresis	0.014 ... 0.14 / 7	$\frac{1}{8}$ "NPT m	F4300	12.07
	high accuracy	0.004 ... 0.012 / 0.15	nipple	F4000	12.08
	for PCB	0.014 ... 0.14 / 7	nipple	F4400	12.08
Vacuum	many options	-0.2 ... -1	G $\frac{1}{8}$	DS15	12.03
	with handwheel	-0.005... -0.02 / -0.7	G $\frac{1}{8}$ m and G $\frac{1}{4}$ m	DSP-V	12.05
	plastic	-0.001... -0.01 / -1	$\frac{1}{8}$ "NPTm	F4200-X	12.06
	also flangable	-0.007... -0.17 / -1	$\frac{1}{8}$ "NPTm	F4300-X	12.07
	with adjustable hysteresis	-0.007... -0.38 / -0.5	nipple	F4000-X	12.08
	with small hysteresis	-0.007... -0.17 / -1	nipple	F4400-X	12.08
Differential press.	with handwheel	5 ... 20 / 50 mbar	nipple	DSP-W	12.05
ATEX	dust, EXII 3D IP65 T90	0.3 ... 1.5 / 150	G $\frac{1}{4}$ a	DS34	12.04
	gas, EXII 2G ExdII C T6	1 ... 6 / 400	G $\frac{1}{4}$ i	DS35	12.04
	gas, EXII 2G Ex ia T4	0.005 ... 0.02 / 12	G $\frac{1}{8}$ m and G $\frac{1}{4}$ m	DSP	12.05
Pneum. signal	pressure	0.07 ... 0.35 / 7	$\frac{1}{8}$ "NPTm	PP700/PP701	12.09
	vacuum	-0.03 ... 0.17 / -0.85	$\frac{1}{8}$ "NPTm	VP700/VP701	12.09
Electrical signal	with pressure indicator	-1 ... 1 / 10	G $\frac{1}{8}$ m	DSB/DSC	12.10
Stainless steel	many options	0.5 ... 5 / 200	G $\frac{1}{4}$ m	DS18	12.03
	low pressure, handwheel	0.005 ... 0.02 / 12	G $\frac{1}{8}$ m and G $\frac{1}{4}$ m	DSP	12.05



12 Pressure Switches



Description	The small-sized pressure switch closes or opens an electrical contact when the desired pressure is reached. If it falls below, the contact will be reset.		
Media	DS10: compressed air	DS13: compressed air and water	All others: compressed air, water hydraulic oil
Burst pressure	min. 20 bar,	DS13: max. 15 bar,	DS40C/D: max. 250 bar
Contact	silver-coated, max. 2A Ohm resistive load, max. 100 VA		
Hysteresis	< 10% FS, DS10 and D40: 10 ... 15% FS		
Mounting position	any		
Life span	10 ⁶ operating cycle for max. 200 switches / min		
Protection class	IP 00, with protective cap IP 65		Voltage 42 V
Tolerance	± 0.2 bar at 0.2 ... 2 bar, ± 0.5 bar at 1 ... 10 bar ± 3 bar at 10 ... 70 bar, ± 5 bar at 50 ... 200 bar		
Electrical connection	contact pin 2 x 6.3 x 0.8 except for DS10 and DS40: screwed connection M2		
Temperature range	-25 °C to 85 °C / -13 °F to 185 °F DS13: -20 °C bis 75 °C / -4 °F to 167 °F		
Material	Body:	brass for DS08, DS14, DS46 steel for DS25, DS40 plastic for DS13	Elastomer: NBR/Buna-N, optionally EPDM, FKM and Kalrez



Dimensions			Body	Electr.	Connection	Pressure	Measurement	Order number	
A/F	B	C	made	connection	thread	transmission	range	contact	contact
mm	mm	mm	of		G	by	bar	NO	NC

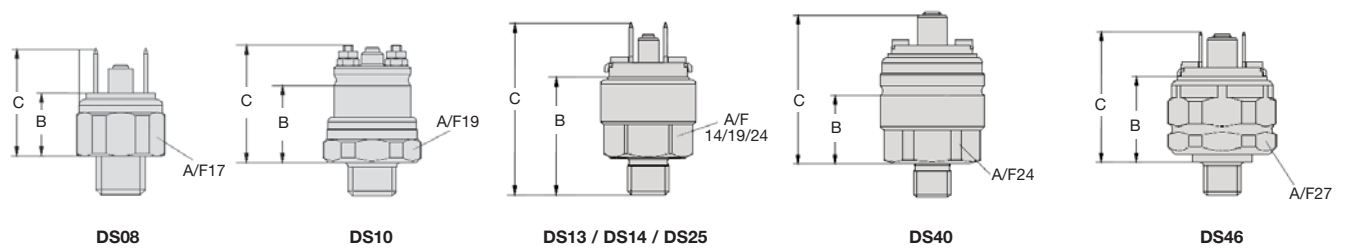
Mini-Pressure switch, 42 V			NBR/Buna-N		DS					
17	13	22	brass	flat plug	G¼	diaphragm	0.3 ... 2	2	DS08-21A	DS08-20A
							1.0 ... 10	10	DS08-21B	DS08-20B
19	16	25	brass	screw connection	G½	diaphragm	1.0 ... 10	10	DS10-11B	
14	23	37	plastic	flat plug	G½	diaphragm	0.2 ... 2	2	DS13-11A	DS13-10A
							1.0 ... 8	8	DS13-11B	DS13-10B
19	21	34	brass	flat plug	G½	diaphragm	0.3 ... 2	2	DS14-11A	DS14-10A
							1.0 ... 10	10	DS14-11B	DS14-10B
24	20	34	steel	flat plug	G½	diaphragm	0.2 ... 2	2	DS25-11A	DS25-10A
							1.0 ... 10	10	DS25-11B	DS25-10B
24	22	31	steel	screw connection	G½	diaphragm	0.3 ... 2	2	DS40-11A	DS40-10A
						diaphragm	1.0 ... 10	10	DS40-11B	DS40-10B
		37				piston	10 ... 70	70	DS40-11C	DS40-10C
						piston	50 ... 200	200	DS40-11D	DS40-10D
27	29	35	brass	flat plug	G¼	diaphragm	0.2 ... 2	2	DS46-21A	DS46-20A
							0.5 ... 10	10	DS46-21B	DS46-20B



Special options, add the appropriate letter			
G¼ male	connection thread	only for DS10 to DS40	DS...-2..
FKM elastomer	for diaphragm	not for DS13	DS...-...V
	for piston	only for DS40 (C/D)	DS...-...V
EPDM elastomer		only for DS10 and DS40	DS...-...E
Kalrez elastomer		only for DS10 and DS40	DS...-...K
gold contact		not for DS08	DS...-...G

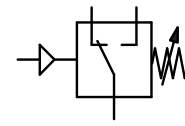
Accessories

protection cap	for DS10	K210	for DS08, DS13 and DS14	K214
	for DS25	K250	for DS40 and DS46	K400



Description	The pressure switch closes or opens an electrical contact when the desired pressure is reached. If it falls below, the contact will be reset.	
Media	compressed air, non-corrosive gases or liquids	
Overpressure	see chart for max. static pressure, dynamic pressures are 50% lower	
Switch contact	DS15/16: NO contact, optionally NC contact	DS17/18: SPDT switch
Contact load	DS15/16: 2 A at 42 V DC, DS17: 4 A at 42 V DC, DS18: 4 A at 250 V AC	
Electrical connector	DS15/16: screw terminal, DS17/18: spade terminal 6.3 x 0.8 mm, optionally also for DS15/16	
Hysteresis	DS15/16: 5...20%, DS17/18: adjustable to 10...30% by factory	
Life cycle	10 ⁶ switching cycles at < 50 bar	Switching frequency max. 200 cycles/min
Vibration resistance	10 g at 5...200 Hz	Shock resistance 30 g
Certifications	CSA-certified and UL-listed	
Protection class	IP 00, with coupling socket IP 65	
Temperature range	-30 °C to 100 °C / -22 °F to 212 °F for NBR/Buna-N, -30 °C to 120 °C / -22 °F to 248 °F for EPDM, -5 °C to 120 °C / 23 °F to 248 °F for FKM	
Material	Body: steel, brass at DS15, optionally stainless steel at DS18 Elastomer: NBR/Buna-N, optionally EPDM or FKM	

0,1 ... 1/200 bar
-0.2 ... -1 bar



Switches



12

Switches



12

Pressure transmission by	Overpressure protection < bar	Measuring tolerance ± bar	Measurement range bar	Order number
--------------------------	-------------------------------	---------------------------	-----------------------	--------------

Pressure switch G ¹ / ₄ m, NO 42V			steel, NBR/Buna-N, without protective cap	DS16
diaphragm	300	0.2	0.1 ... 1.0	DS16-A
		0.5	1.0 ... 10	DS16-B
		1.0	10 ... 20	DS16-C
		2.0	20 ... 50	DS16-D
piston	600	5.0	50 ... 150	DS16-E

Pressure switch G ¹ / ₄ m, SPDT 42V			steel, NBR/Buna-N, with coupling socket	DS17
diaphragm	100	0.2	0.3 ... 1.5	DS17-A
		0.5	1.0 ... 10	DS17-B
		1.0	1.0 ... 10	DS17-C
		3.0	10 ... 50	DS17-D
		5.0	10 ... 100	DS17-E
piston	600	5.0	50 ... 200	DS17-H

Pressure switch G ¹ / ₄ m, SPDT 250V			steel, NBR/Buna-N, with coupling socket	DS18
diaphragm	100	0.2	0.3 ... 1.5	DS18-A
		1.0	1.0 ... 10	DS18-C
		3.0	10 ... 50	DS18-D
		5.0	10 ... 100	DS18-E
piston	600	5.0	50 ... 200	DS18-H

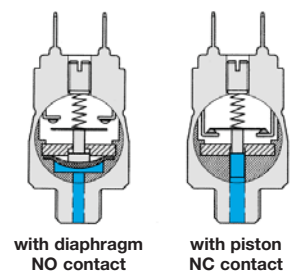
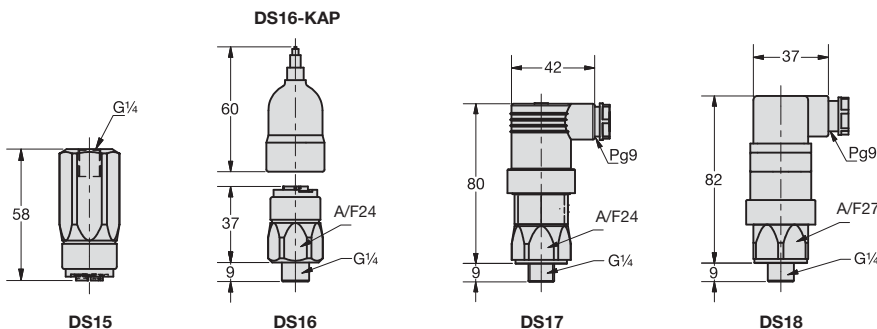
Vacuum switch G ¹ / ₈ f, NO 42V			brass, FKM, without protective cap	DS15
diaphragm	20	0.1	-0.2 ... -1	DS15-03

Special options, add the appropriate letter

EPDM elastomer		not for DS15	DS1 .-. E
FKM elastomer	Viton	not for DS15	DS1 .-. V
free of oil and grease	suitable for oxygen, max. 10 bar		DS1 .-. L
NC contact	instead of normally open contact	for DS15 and DS16	DS1 .-. 1
spade terminal	6.3 x 0.8 mm, galvanised	for DS15 and DS16	DS1 .-. T
600 bar overpressure	maximum	for DS16	DS16-. U
gold contact	max. 24 V AC/DC, 50 mA	for DS17	DS17-. G
250 V	max. voltage	for DS17	DS17-. W
stainless steel body	0.5 ... 5/200 bar	for DS18	DS18-. S
factory-set pressure	pressure indication falling pressure VF . . rising pressure		DS1 .-. VS . .

Accessories

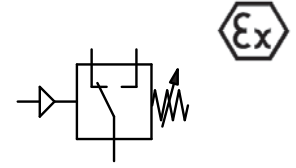
protection cap	straight, IP65	for DS15 and DS16	DS16-KAP
----------------	----------------	-------------------	----------



Order example:
DS16-A

PDF CAD
www.aircom.net

Description	The pressure switch closes or opens an electrical contact when the desired pressure is reached. When the pressure falls below the adjusted setpoint, the contact will be reset.	
Media	compressed air or non-corrosive gases	
Overpressure	see chart for max. static pressure,	
Contact load	DS34: 1 A at 230 V AC,	Switch contact SPDT switch
ATEX version	DS34: II 3D IP 65 T90°C	dynamic pressures are 50% lower
Electrical connector	3-wire connection cable, length 2 m, cross-sectional area 0.75 mm ² at DS34 or 0.5 mm ² at DS35	DS35: 2 A at 230 V AC
Hysteresis	< 25% FS, ca. 10% FS in the lower range	DS35: II 2G Ex d II C T6/T5
Life cycle	10 ⁸ switching cycles at < 50 bar	Switching frequency 200 cycles/min
Vibration resistance	10 g at 5...200 Hz	Shock resistance 30 g
Mounting position	any	Protection class IP 65
Temperature range	-20 °C to 80 °C / 23 °F to 176 °F for NBR/Buna-N and EPDM	
Material	Body: zinc-plated steel at DS34, aluminium at DS35	optionally EPDM or FKM
	Elastomer: NBR/Buna-N,	



**0.3... 1.5/400 bar
dust- and gas-proof**

Switches
12

Pressure transmission by	Overpressure protection < bar	Measurement tolerance ± bar	Measurement range bar	Order number
--------------------------	-------------------------------	-----------------------------	-----------------------	--------------

Pressure switch G ¹ / ₄ male	SPDT switch 230 V AC, 1A	dust-proof II 3D IP 65 T90°C	DS34	
diaphragm	300	0.2	0.3 ... 1.5	DS34-A
		0.5 - 1.0	1.0 ... 10	DS34-B
		1.0	10 ... 20	DS34-C
		2.0	20 ... 50	DS34-D
piston	600	5.0	50 ... 150	DS34-E



DS34, dust protection

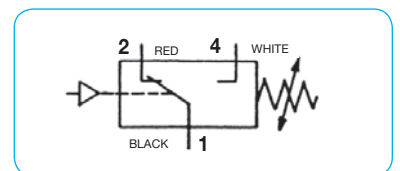
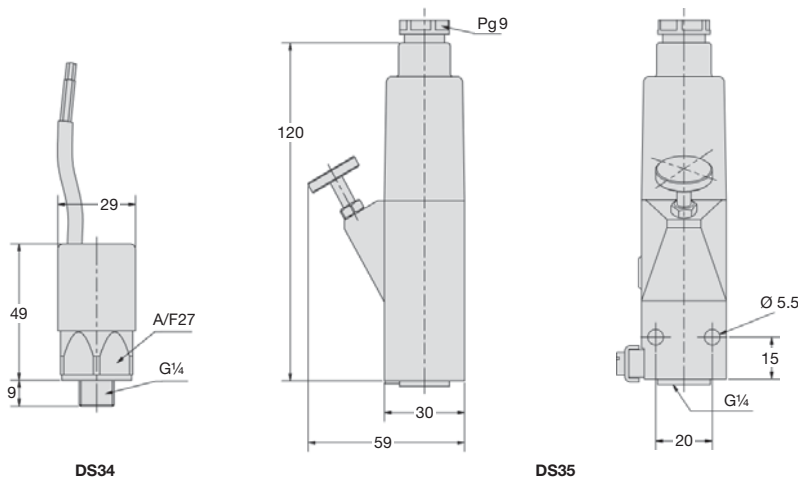
Pressure switch G ¹ / ₄ female	SPDT switch 230 V AC, 1A	gas-proof II 2G Ex d II C T6/T5	DS35	
diaphragm	200	0.5	1 ... 6	DS35-B
		3.0	5 ... 50	DS35-D
piston	600	3 - 5	20 ... 100	DS35-E
		5 - 9	100 ... 400	DS35-K



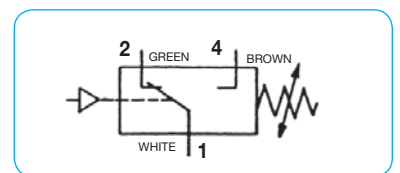
DS35, gas protection

Special options, add the appropriate letter

EPDM elastomer	-20 °C to 80 °C / -4 °F to 176 °F	DS3. - .E
FKM elastomer	- 5 °C to 80 °C / 23 °F to 176 °F	DS3. - .V
free of oil and grease	suitable for oxygen, max. 10 bar, diaphragm version only	DS3. - .L
adjusted switchpoint	± 5%, indicate on order	DS3. - .X



pin configuration DS34



pin configuration DS35

PDF CAD
www.aircom.net

Order example:
DS34-A

Description	Adjustable pressure switch for monitoring pressure, vacuum and differential pressure. From the 6 bar device on two turns of the adjusting knob are necessary for the whole adjustment range, so the scale on the knob is inappropriate.		
Media	compressed air, non-corrosive gases or liquids	Overpressure	see chart
Switch contact	SPDT switch with silver contact, optionally gold contact	Vibration resistance	20 g
Contact load	2 A at 24 V DC, 6 A at 250 V AC	Switching time	30 ms
Electrical connector	AMP spade terminal, 6.3 x 8 mm, according to DIN 46244	Hysteresis	see chart
Life cycle	10 ⁶ switching cycles	Protection class	IP 65 w/ coupling socket
Certifications	VDE, TÜV design test, optionally Atex		
Mounting position	any, but indication needed for switch point < 100 mbar		
Temperature range	-20 °C to 85 °C / -4 °F to 185 °F for NBR/Buna-N, EPDM and polyamide, up to 130 °C / 266 °F for FKM		
Material	Body: Zytel, a high-quality polyamide Elastomer: NBR/Buna-N, optionally EPDM, FKM or special FKM (saturated steam-resistant) Pressure connection: brass, at DSP-W polyamide, optionally stainless steel or PVDF		

5 ... 20 mbar / 12 bar
-5 ... -20 / -700 mbar

Switches
12

Dimensions		Overpressure protection	hysteresis max.	Measurement range	Order number
B	Ø	< bar	mbar / bar	mbar / bar	
mm	mm				

Pressure switch G ¹ / ₄ male, for low pressure			wetted sections: brass and NBR/Buna-N, scale toleranz 10%		DSP-D
68	45	0.5	3 mbar	5 ... 20 mbar	DSP-DB2
		0.5	5 mbar	10 ... 50 mbar	DSP-DB5
		0.5	10 mbar	25 ... 100 mbar	DSP-DC1
		1.0	20 mbar	50 ... 250 mbar	DSP-DC2
		1.0	50 mbar	100 ... 500 mbar	DSP-DC5
		10	150 mbar	0.25 ... 1.0 bar	DSP-D01
		10	250 mbar	0.5 ... 1.5 bar	DSP-D02
		10	500 mbar	1 ... 3.0 bar	DSP-D03
		25	0.5 / 2 bar*	1 ... 6.0 bar	DSP-D06
		25	0.5 / 2 bar*	4 ... 9.0 bar	DSP-D09
		25	0.5 / 2 bar*	7 ... 12 bar	DSP-D12



Pressure switch G ¹ / ₄ male			wetted sections: brass and NBR/Buna-N, scale toleranz 10%		DSP-V
68	45	0.5	3 mbar	-5 ... - 20 mbar	DSP-V02
		0.5	5 mbar	-10 ... - 50 mbar	DSP-V05
		0.5	10 mbar	-25 ... -100 mbar	DSP-V10
		0.5	20 mbar	-50 ... -125 mbar	DSP-V12
		1.0	25 mbar	-75 ... -200 mbar	DSP-V20
		1.0	30 mbar	-100 ... -300 mbar	DSP-V30
		1.0	75 mbar	-200 ... -500 mbar	DSP-V50
		1.0	75 mbar	-300 ... -700 mbar	DSP-V70



Differential press. switch, nipple Ø 6.5			wetted sections: polyamide and NBR/Buna-N, scale toleranz 10%		DSP-W
77	45	0.1	3 mbar	5 ... 20 mbar	DSP-W20
		0.1	5 mbar	10 ... 50 mbar	DSP-W50



Special options, add the appropriate letter

factory-set pressure		DSQ- . . .
G ¹ / ₈ male	pressure port thread, (not for DSP-W)	DSP- . . . 1
stainless steel port	pressure port thread, 1.4401, (not for DSP-W)	DSP- . . . S
FKM elastomer	max. 130 °C / 266 °F	DSP- . . . V
EPDM elastomer		DSP- . . . E
increased overpressure	max. 4 bar for pressure measurement range < 1 bar	DSP- . . . U
gold contact	max. 24 V AC, 100 mA	DSP- . . . G
Ex-i-Atex	Ex II 1/2G Ex ia IIB T4 and Ex II 1/2G Ex ia IIC T4	DSP- . . . EX
Ex-ii-Atex	Ex II 1/2G Ex ia IIB T4 and Ex II 1/2G Ex ia IIC T4	DSP- . . . SEX

DS-KAP5 DS-KAP4

Accessories

mounting bracket	made of steel, including nut	for G ¹ / ₄	BW14-01
protection cap	angular, cable feedthrough Ø 5 mm	IP44	DS-KAP4
	angular, high-strength cable gland Pg 9	IP54	DS-KAP5
		IP65	DS-KAP6

pin configuration

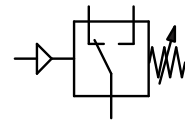
BW14-01 DS-KAP4 DS-KAP5 (-KAP6)

* 0.5 bar at the beginning, 2 bar at the end of the pressure range

Miniature Pressure and Vacuum Switch, Type "Airtrol®"

F4200

Description	High-precision pressure and vacuum switch with electrical outlet signal. The microswitch satisfies UL and CSA regulations. Polysulphone of the body approved by National Sanitation Foundation. The switch also complies with FDA regulations and is suitable for water and food products.		
Media	compressed air, non-corrosive gases or liquids		
Switch contact	micro SPDT switch, covered by plastic cap		
Contact load	3 A at 230 V AC or 1.2 A at 125 V DC 10 A at 230 V AC or 0.5 A at 125 V DC		
Electrical connector	0.187" (4.75 mm) quick connector for Molex connector		
Repeatability	± 2% FS		
Certifications	CSA-certified and UL-listed		
Switching time	25 ms		
Mounting position	any		
Temperature range	4 °C to 66 °C / 40 °F to 150 °F		
Material	Body: polysulphone	Spring: stainless steel	Media non-contact parts: nylon, carbon fibre nylon, acetal
	Diaphragm: polyurethane		



3 ... 30 mbar / 7 bar
-1 ... -10 mbar / -1 bar

Description	Contact load	Hysteresis typical	Hysteresis max.	Over-pressure max. bar	Measurement range bar	Order number
	max. A	mbar	mbar			

Pressure and Vacuum Switch	pressure port 1/8" NPT male, with covering cap, SPDT switch	F4200
pressure switch	3	3 10 1 0.003 ... 0.03 F4200- 0,5PT
	10	7 20 2 0.014 ... 0.14 F4200- 2PT
	10	30 50 2 0.035 ... 0.35 F4200- 5PT
	10	70 110 3 0.035 ... 1.0 F4200- 15PT
	10	120 160 4 0.035 ... 2.1 F4200- 30PT
	10	240 350 8 0.035 ... 4.2 F4200- 60PT
	10	400 500 8 0.070 ... 7.0 F4200-100PT
vacuum switch	3	1 3 -0.3 -0.001 ... -0.01 F4200-X 4PT
	10	17 27 -1 -0.007 ... -0.17 F4200-X 5PT
	10	34 50 -1 -0.015 ... -0.34 F4200-X10PT
	10	68 100 -1 -0.050 ... -1.00 F4200-X30PT



F4200-100PT



F4200-60FM



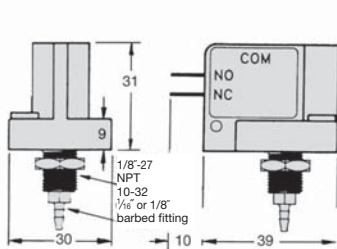
F4200-100PM



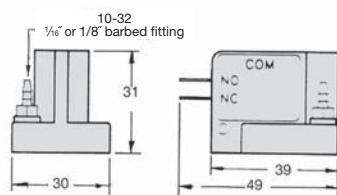
F4200-100MM

Special options, add or change the appropriate letter

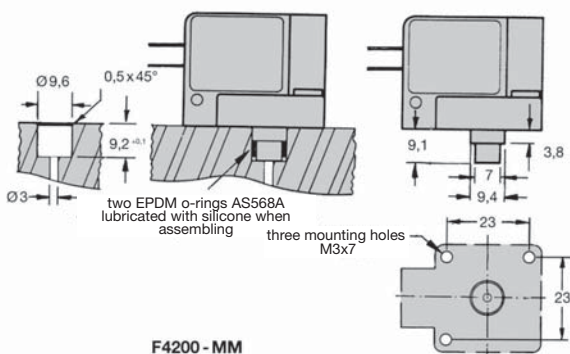
flush mounting	barbed fitting made of nylon, Ø 1/16", Ø 2 mm	F4200-... FMB80
panel mounting	barbed fitting made of nylon, Ø 1/16", Ø 2 mm	F4200-... PMB80
manifold mounting		F4200-... MM
barbed fittings	for FM and PM, made of nylon, Ø 1/16", Ø 2 mm	F4200-... B80
	nylon, Ø 1/8", Ø 4 mm	F4200-... B85
	polysulphone, Ø 1/16", Ø 2 mm	F4200-... P80
	polysulphone, Ø 1/8", Ø 4 mm	F4200-... P85
gold contact		F4200-... 1B
factory-set switchpoint	± 5%, indicate on order	F4200-... X
free of oil and grease	specially cleaned, suitable for oxygen	F4200-... L



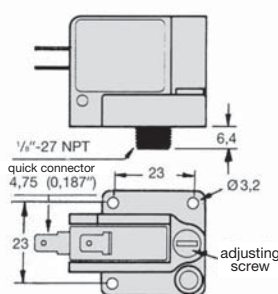
F4200-PM



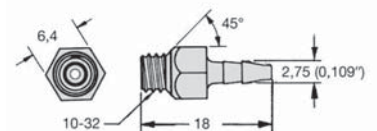
F4200-FM



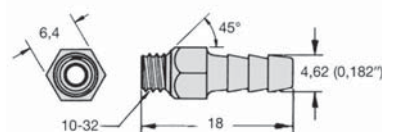
F4200-MM



F4200-PT



B80 / P80



B85 / P85

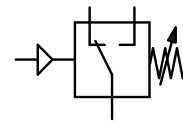
PDF CAD
www.aircom.net



Order example:
F4200-0,5PT

Pressure and Vacuum Switch with Low Hysteresis, Type "Airtrol®" F4300

Description	Pressure and vacuum switch with electrical outlet signal and low hysteresis. The microswitch satisfies UL and CSA regulations. Polysulphone of the body approved by National Sanitation Foundation. The switch also complies with FDA regulations and is suitable for water and food products.		
Media	compressed air, non-corrosive gases or liquids		
Switch contact	micro SPDT switch, covered by plastic cap		
Contact load	3 A or 4 A at 230 V AC, see chart		
Electrical connector	0.110" (2.8 mm) quick connector for Molex/ETC connector		
Repeatability	± 2% FS		
Certifications	CSA-certified and UL-listed		
Switching time	25 ms		
Mounting position	any		
Temperature range	4 °C to 66 °C / 40 °F to 150 °F		
Material	Body: polysulphone	Spring: stainless steel	
	Diaphragm: polyurethane	Media non-contact parts: nylon, carbon fibre nylon, acetal	



14 ... 140 mbar / 7 bar
-7 ... -170 mbar / -1 bar

Description	Contact load	Hysteresis		Over-pressure	Measurement range	Order number
		typical	max.			
	max. A	mbar	mbar	max. bar	bar	

Description	Contact load	Hysteresis		Over-pressure	Measurement range	Order number
		typical	max.			
Pressure / vacuum switch, low hysteresis						
pressure switch	3	7	14	2	0.014 ... 0.14	F4300- 2PT
	4	14	24	2	0.035 ... 0.35	F4300- 5PT
	4	30	41	3	0.035 ... 1.0	F4300- 15PT
	4	40	70	4	0.035 ... 2.1	F4300- 30PT
	4	100	170	8	0.035 ... 4.2	F4300- 60PT
	4	140	240	8	0.070 ... 7.0	F4300-100PT
vacuum switch	4	10	20	-1	-0.007 ... -0.17	F4300-X 5PT
	4	20	34	-1	-0.015 ... -0.34	F4300-X10PT
	4	34	50	-1	-0.050 ... -1.00	F4300-X30PT

pressure port 1/8" NPT male, w. covering cap, SPDT switch **F4300**

Special options, add or change the appropriate letter

flush mounting	barbed fitting made of nylon, Ø 1/8", Ø 2 mm	F4300-... FMB80
panel mounting	barbed fitting made of nylon, Ø 1/8", Ø 2 mm	F4300-... PMB80
manifold mounting		F4300-... MM
barbed fittings	for FM and PM, made of nylon, Ø 1/8", Ø 2 mm	F4300-... B80
	nylon, Ø 1/8", Ø 4 mm	F4300-... B85
	polysulphone, Ø 1/8", Ø 2 mm	F4300-... P80
	polysulphone, Ø 1/8", Ø 4 mm	F4300-... P85
gold contact		F4300-... 1B
factory-set switchpoint	± 5%, indicate on order	F4300-... X
free of oil and grease	specially cleaned, suitable for oxygen	F4300-... L



F4300-5PT



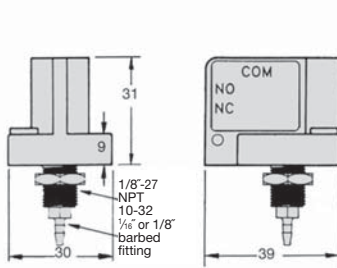
F4300-5FM



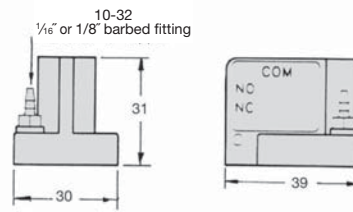
F4300-30PM



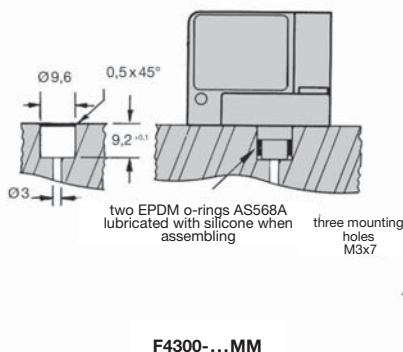
F4300-60MM



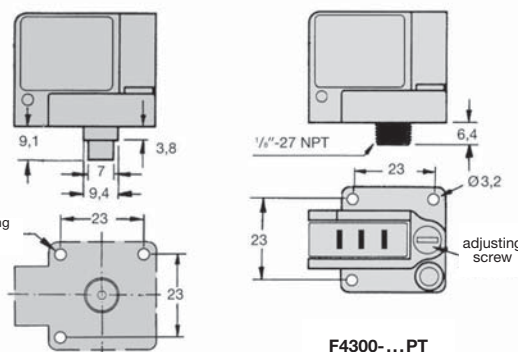
F4300-...PM



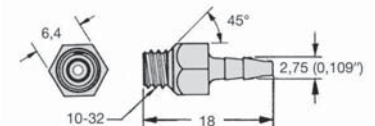
F4300-...FM



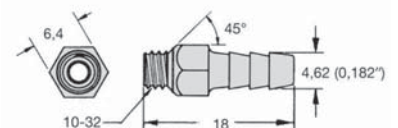
F4300-...MM



F4300-...PT



B80 / P80



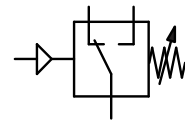
B85 / P85

PDF CAD
www.aircom.net

Order example:
F4300-2PT

Pressure Switch with Adjustable Hysteresis for PCB, Type "Airtrol®" F4000 / F4400

Description	High-precision pressure and vacuum switch with electrical outlet signal. The microswitch satisfies UL and CSA regulations. Polysulphone of the body approved by National Sanitation Foundation. The switch also complies with FDA regulations and is suitable for water and food products.		
Media	compressed air, non-corrosive gases or liquids		
Switch contact	micro SPDT switch, covered by plastic cap		
Contact load	15 A at 230 V AC, 1.2 A at 125 V DC	see chart, consultation needed for AT1004	
Electrical connector	3 A or 4 A at 230 V AC, 0.187" (4.75 mm) quick connector for Molex connector	see chart for F4000 and AT1004	
Repeatability	0.060" (1.52 mm) solder leads	for F4400	
Certifications	± 2% FS		
Switching time	CSA-certified and UL-listed		
Mounting position	25 ms		
Temperature range	any		
Material	4 °C to 66 °C / 40 °F to 150 °F		
	Body: polysulphone	Spring: stainless steel	
	Diaphragm: polyurethane	Media non-contact parts: nylon, carbon fibre nylon, acetal	



4 ... 12 mbar / 7 bar
-7 ... -170 mbar / -1 bar

Description	Contact rating	Hysteresis typical	Over-pressure max.	Measurement range off	Measurement range on	Order number
	max. A	mbar	mbar	mbar/bar	mbar/bar	

Pressure and vacuum switch	with adjustable hysteresis nylon fitting, Ø 1/16", Ø 2 mm				F4000	
pressure switch	15	-	-	1	4... 12 mbar 6... 40 mbar	F4000- 20B80
	15	-	-	1	4... 37 mbar 8... 150 mbar	F4000- 30B80
vacuum switch	15	-	-	-1	-70...-380 mbar -135...-500 mbar	F4000- X B80

Pressure switch for PCB	with small hysteresis nylon fitting, Ø 1/16", Ø 2 mm				F4400	
pressure switch	3	7	14	2	0.014 ... 0.14 bar	F4400- 2B80
	4	14	24	2	0.035 ... 0.35 bar	F4400- 5B80
	4	30	41	3	0.035 ... 1.0 bar	F4400- 15B80
	4	40	70	4	0.035 ... 2.1 bar	F4400- 30B80
	4	100	170	8	0.035 ... 4.2 bar	F4400- 60B80
	4	140	240	8	0.070 ... 7.0 bar	F4400-100B80
vacuum switch	4	10	20	-1	-0.007 ... -0.17 bar	F4400-X 5B80
	4	20	34	-1	-0.015 ... -0.34 bar	F4400-X10B80
	4	30	50	-1	-0.050 ... -1.00 bar	F4400-X30B80

Pressure switch, factory-set	nylon fitting, ± 10% tolerance Ø 1/16", Ø 2 mm, SPDT switch		AT1004
pressure switch	switching point to be indicated on order		4...43 mbar AT1004-..B80

Special options, add the appropriate letter				
barbed fitting	made of	nylon, Ø 1/16", Ø 4 mm	F4.00-... B85	
		polysulphone, Ø 1/16", Ø 2 mm	F4.00-... P80	
		polysulphone, Ø 1/8", Ø 4 mm	F4.00-... P85	
gold contact	0.1 A at 125 V AC			
factory-set switch point	± 5%, switching point to be indicated on order			
free of oil and grease	specially cleaned, suitable for oxygen			
			F4.00-... X	
			F4.00-... L	



F4000-30B80



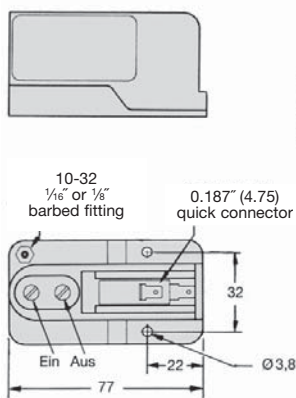
F4400-100B80



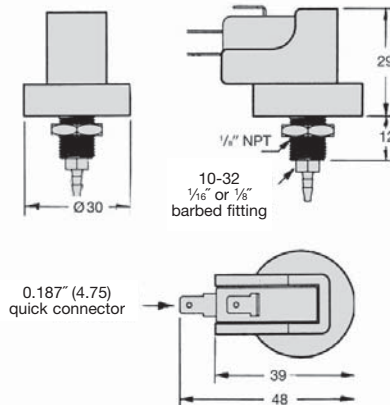
AT1004-17



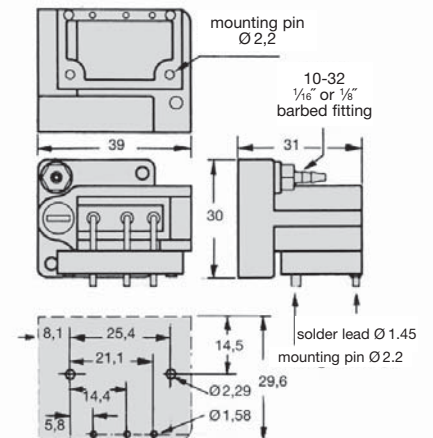
cover cap for pressure switch supplied



F4000



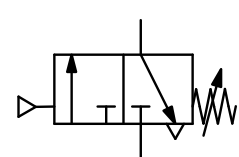
AT1004



F4400


*1 not adjustable

Description	Pilot-actuated pressure valve with precisely adjustable pilot setpoint. Perfect for applications which require intrinsic safety, pneumatic sequencing or pressure relief. Valves are normally opened or closed. The switch complies with FDA regulations and is suitable for water and food products.		
Media	5 µm filtered compressed air		
Pressure valve	3-port/2-way air-assisted servo valve with exhaust to atmosphere, NO or NC, made of nylon		
Supply pressure:	1.4...8 bar, untapped exhaust		
Air consumption:	max. 0.3 l/min at 2 bar supply pressure or max. 0.7 l/min at 7 bar		
Pneumatic connection:	quick connector for hose external diameter of 4 mm (5/32")		
Flow rate:	70 l/min at 7 bar, nominal size DN 0.2, K _v = 0.05		
Switching time:	64 ms at 6 bar supply pressure		
Accuracy	Pressure switch: at supply pressure variation of 0.7 bar: < 7 mbar pressure deviation		
	Vacuum switch: at supply pressure variation of 0.3 bar: < 3 mbar pressure deviation		
Repeatability:	± 2% FS		
Temperature range	4 °C to 60 °C / 40 °F to 140 °F		
Material	Body:	polysulphone	Mounting position any
	Diaphragm:	polyurethane	Spring: stainless steel
			Media non-contact parts: nylon, carbon fibre nylon, acetal




70 ... 350 mbar / 7 bar
-30 ... -170 / -850 mbar

Switches



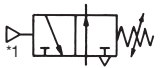
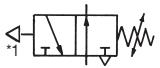
12

Switches

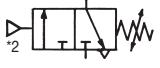
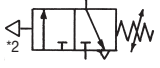


12

Description	Supply pressure of switching valve	Hysteresis typical	Hysteresis max.	Over-pressure max. bar	Measurement range bar	Order number
-------------	------------------------------------	--------------------	-----------------	------------------------	-----------------------	--------------

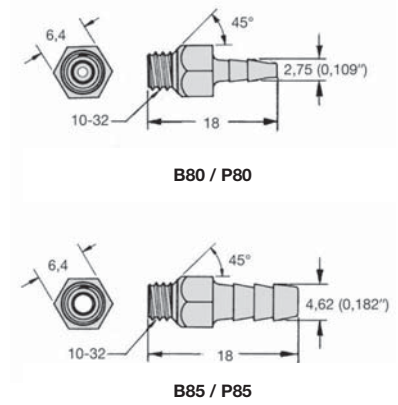
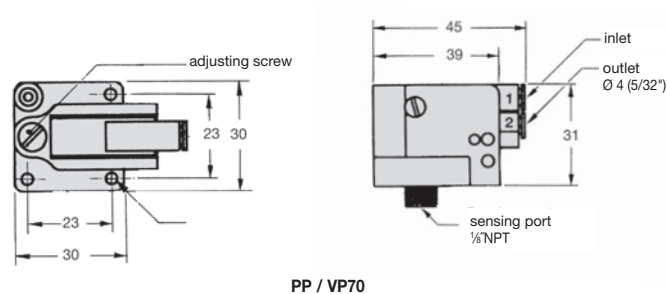
				1/8" NPT male, supply pressure 1.4...8 bar	PP / VP700			
Switch with pneumatic output, NO		pressure switch	1.4...8 bar	15	30	2	0.07... 0.35	PP700- 5PT
			NO	20	40	4	0.07... 1.0	PP700- 15PT
				20	70	4	0.07... 2.1	PP700- 30PT
				35	140	8	0.20... 4.2	PP700- 60PT
				50	240	8	0.35... 7.0	PP700-100PT
vacuum switch		1.4...8 bar	15	35	-1	-0.03... -0.17	VP700- 5PT	
		NO	20	40	-1	-0.03... -0.34	VP700- 10PT	
			35	70	-1	-0.07... -0.85	VP700- 30PT	



				1/8" NPT male, supply pressure 1.4...8 bar	PP / VP701			
Switch with pneumatic output, NC		pressure switch	1.4...8 bar	15	30	2	0.07... 0.35	PP701- 5PT
			NC	20	40	4	0.07... 1.0	PP701- 15PT
				20	70	4	0.07... 2.1	PP701- 30PT
				35	140	8	0.20... 4.2	PP701- 60PT
				50	240	8	0.35... 7.0	PP701-100PT
vacuum switch		1.4...8 bar	15	35	-1	-0.03... -0.17	VP701- 5PT	
		NC	20	40	-1	-0.03... -0.34	VP701- 10PT	
			35	70	-1	-0.07... -0.85	VP701- 30PT	



- Special options, add or change the appropriate letter**
- flush mounting** barbed fitting made of nylon, Ø 1/16", Ø 2 mm .P70.-... **FMB80**
 - panel mounting** barbed fitting made of nylon, Ø 1/16", Ø 2 mm .P70.-... **PMB80**
 - manifold mounting** .P70.-... **MM**
 - barbed fitting** for FM and PM, nylon, Ø 1/16", Ø 2 mm .P70.-... **B80**
 - nylon, Ø 1/8", Ø 4 mm .P70.-... **B85**
 - polysulphone, Ø 1/16", Ø 2 mm .P70.-... **P80**
 - polysulphone, Ø 1/8", Ø 4 mm .P70.-... **P85**
 - free of grease and oil** specially cleaned, suitable for oxygen .P70.-... **L**



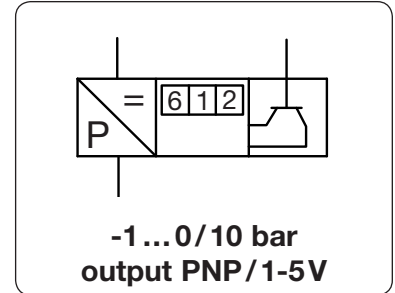
*1 only output signal in the absence of input signal (positive pressure, vacuum)
*2 no output signal in the absence of input signal (positive pressure, vacuum)

PDF CAD
www.aircom.net

Order example:
PP700-5PT

Programmable Vacuum and Pressure Switch Transducer with Display DSB / DSC

Description	Pressure to the unit is continuously monitored by a piezo-resistive sensor and converted into a proportional voltage signal. The signal is then amplified and delivered as a PNP signal. dry, lubricated or unlubricated compressed air or non-corrosive gases		
Media	12 ... 30 V DC, reverse voltage protection, current consumption max. 30 mA, output current max. 250 mA		
Supply voltage	Mode: hysteresis or window, switching point and hysteresis, NO or NC, closing or opening time, bar, psi, MPa, kg/cm ² etc. Display: current pressure, highest pressure, measurement errors		
Adjustment	DSB	2x PNP freely programmable as NO or NC, max. contact load 250 mA, short-circuit-proof	
Switching output	DSB	1x PNP as at DSB and 1x analogue output signal 1...5 V, output impedance < 500 Ω	
Switching output	DSC	adjustable from 0% to 100% of set switching point	
Hysteresis	< 0.2% FS		
Repeatability	3-digit, red 7-segment display on DSB, no display on DSC		
LED display	via 7-segment display on DSB, via multicolour LED on DSC		
Error display	-1 °C to 50 °C / 30 °F to 122 °F		
Certifications	CSA-compliant, UL-listed		
Temperature range	Body: ABS-PC plastic, shockproof		
Material	Linearity < 1% FS Switching frequency 200 Hz Mounting position any Shock resistance 10 g Protection class IP 65 Connection thread: nickel-plated brass		



Switches
12

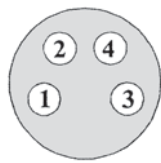
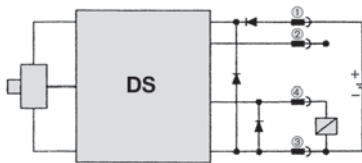
Dimensions	Digital display	Over-pressure	Output signal type	Measurement range	Order number
B	Ø	max. bar	PNP/analog	bar	
mm	mm				

Sensor pressure switch					connection thread G½ male, without coupling socket, M8x1, 4-pin	DS	
57	16	with	5	2x PNP	250	0 ... -1	DSB-V1
						-1 ... +1	DSB-V2
						0 ... 10	DSB-10
						-1 ... 10	DSB-V10
44	16	without	5	1x PNP/1x analog	250	0 ... -1	DSC-V1
						-1 ... +1	DSC-V2
						0 ... 10	DSC-10
						-1 ... 10	DSC-V10

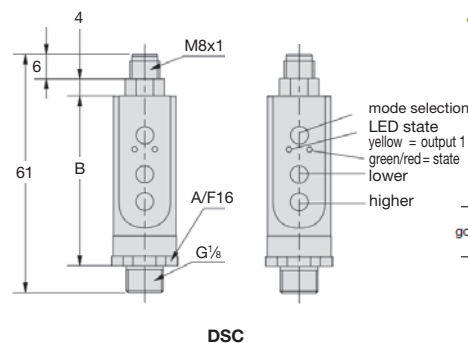
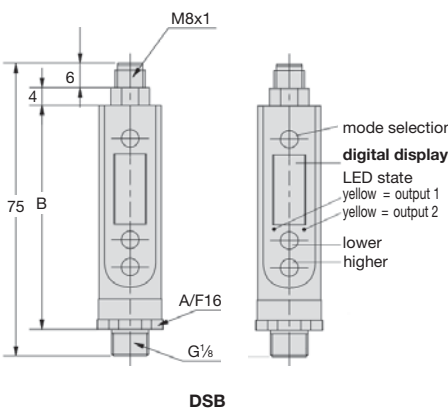
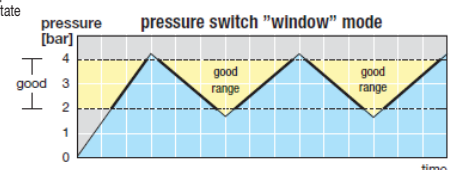
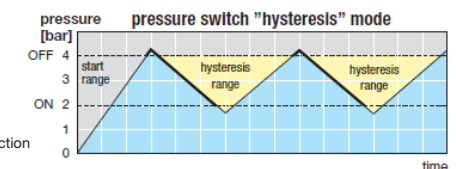
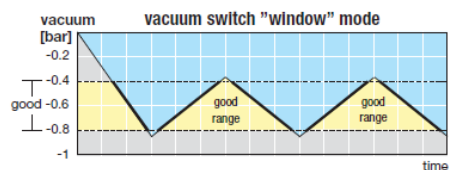
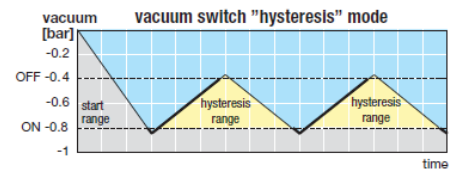


Accessories

coupling socket	M8x1, 4-pin with 5 m cable	straight	KM8-A4-5
		angular	KM8-C4-5



pin	colour	configuration
1	brown	24 V DC (+)
2	white	outlet 2 / analog
3	blue	24 V DC (-)
4	black	outlet 1 / digital



PDF CAD
www.aircom.net



Bestellbeispiel:
DSB-V1