

Alco Controls

Pressure Switch PS4

Technical Bulletin

PS4 Pressure Switch with fixed settings for various applications.

Features

- High- and low pressure switches
- Precise settings and repeatability
- Cable version with IP67 (IP20 for terminal version)
- Normally open/closed electrical contacts (under standard operating conditions)
- TUV approved versions
- Compatible with RoHS directive
- Minimum lot size 100 pieces
- Other settings are not available

Standards

-  acc. Pressure Equipment Directive 97/23/EC
-  Underwriter Laboratories file nr. E258370
-  EN 60730-1, EN 60730-2-6, EN 60335-1



PS4

Low Pressure Switches With Automatic Reset; Open On Falling Pressure

Type	PCN	Setting (bar)		Connector (QC)	Test	EN 12263	Contact	Application	Pressure		
		Cut-out	Cut-in	Cable (m)	Pressure		function		connection		
PS4-W1	808269	0,3	1,5	3,0	25 bar	PSL			6mm		
PS4-A3	808257	0,4	1,2	QC		none	open on falling pressure	low pressure	7/16-20UNF Female *		
PS4-A1	808266	0,4	1,4	1,5					1/4"		
PS4-A1	808245	0,5	1,5	1,5		PSL			7/16-20UNF*		
PS4-W1	808208	0,6	1,8	1,5					6mm		
PS4-W3	808235	0,6	1,8	QC					7/16-20UNF Female with Schrader		
PS4-W1	808251	0,6	1,8	3,0					6mm		
PS4-W1	808209	0,7	2,1	1,5		none			7/16-20UNF Female with Schrader		
PS4-A1	808239	0,7	1,7	1,5		PSL			6mm		
PS4-W1	808241	0,7	2,4	3,0					1/4"		
PS4-W1	808258	0,7	2,1	1,5		none			7/16-20UNF Female with Schrader		
PS4-A1	808259	0,7	2	1,5					6mm		
PS4-A1	808247	1,5	2,5	2,5		PSL			7/16-20UNF Female with Schrader		
PS4-A3	808252	1,5	2,5	QC					6mm		
PS4-W1	808210	1,7	3,4	1,5		PSL			none	7/16-20UNF Female with Schrader	
PS4-W1	808249	1,7	3,4	1,5							
PS4-W1	808271	1,8	3,2	1,5							
PS4-A1	808276	3,3	4,8	1,5							
PS4-A1	808278	50/90 psig		1,5							
PS4-A3	808223	3,8	5,9	QC							

* 7/16-20UNF female with Schrader valve opener

Pressure Switch PS4

High Pressure Switches With Automatic Reset; Open On Rising Pressure

Type	PCN	Setting (bar)		Connector (QC)	Test	EN 12263	Contact	Application	Pressure
		Cut-in	Cut-out	Cable (m)	Pressure		function		connection
PS4-W1	808200	13	18	1,5	41 bar	PSH	open on rising pressure	high pressure	7/16-20UNF*
PS4-W1	808265	13	18	3,0					6mm
PS4-W1	808201	20	26	1,5		PSH			7/16-20UNF*
PS4-W1	808224	20	26	3,0					6mm
PS4-W3	808236	20	26	QC					7/16-20UNF*
PS4-W3	808250	20	26	QC					6mm
PS4-A1	808260	20	26	1,5		none			1/4"
PS4-W1	808203	21	28	1,5		PSH			7/16-20UNF*
PS4-A1	808233	21	28	1,5	55 bar	none			7/16-20UNF*
PS4-A1	808244	21	28	1,5					1/4"
PS4-W3	808273	22,8	29	QC		PSH			7/16-20UNF Female with Schrader opener
PS4-A1	808237	22,5	29,5	1,5		none			
PS4-A1	808246	24	30	2,5		PSH			
PS4-W1	808214	24	31	1,5		none			
PS4-A1	808238	24	31	1,5					
PS4-A3	808253	21	31	QC					
PS4-A1	808248	24	32	2,5					
PS4-A3	808222	33,4	41,7	QC		69 bar			
PS4-W1	808205	33	42	1,5	none				
PS4-W3	808242	33	42	QC	PSH				
PS4-A1	808277	500/650 psig		1,5	none				
PS4-W1	808261	35	45	1,5	PSH				
PS4-A1	808275	34	48	1,5	none				

* 7/16-20UNF female with Schrader valve opener

High Pressure Switches With Automatic Reset; Close On Rising Pressure

Type	PCN	Setting (bar)		Cable (m)	Test Pressure	EN 12263	Contact function	Application	Pressure connection
		Cut-out	Cut-in						
PS4-A2 808212		13	18	1,5			close on rising pressure	fan control	7/16-20UNF Female with Schrader opener
PS4-W2 808274		14,6	20	1,5		PSH			
PS4-A2 808263		16	21,3	1,5		none			
PS4-A2 808264		17	22,6	1,5					
PS4-A2 808213		18	24	1,5					
PS4-W2 808227		22	28	1,5	55 bar	PSH			

High Pressure Switches With Manual Reset; Open On Rising Pressure

Type	PCN	Setting (bar)		Cable	Test	EN 12263	Contact	Application	Pressure
		Cut-out	Cut-in	(m)	Pressure		function		connection
PS4-BL	808202	26	-	1,5	41 bar	PZH	open on rising pressure	high pressure EN 378	7/16-20UNF Female with Schrader opener
PS4-BL	808204	28	-	1,5	55 bar				
PS4-BL	808206	42	-	1,5	69 bar				

Pressure Switch PS4

Technical Data

Type	PS4-A	PS4-W	PS4-BL
Electrical Data			
Inductive Load 230 VAC	0.1 – 6A		0.1 – 6A
Inductive Load (DC <28V)	2A		2A
Motor rating FLA 230 VAC	6A		6A
Motor rating LRA 230 VAC	36A		36A
Gold plated contacts (option)	25-100mA		25-100mA
Electrical Connection	Cable or Terminal (QC) Version		Cable Version
Life time	> 100.000 cycles		
Settings and Tolerances	see selection program		
Protection class IEC 529 / DIN 40050	IP67 (IP20 for Terminal Version)		
Vibration resistance (10 ... 250 Hz)	4 g		
Temperature range: Medium	-50 °C ... 135 °C		
Ambient	-30 °C ... 80 °C (UL version 65 °C)		
Compatibility *	HCFC, HFC, CO ₂ , Mineral-, Synthetic-, POE-Lubricants		
Cable Version	18 AWG 0,8 mm ² , 600 V (max. 125 °C)		
Cable Colour	LP: (0-8,5 bar: blue) HP: (>8,5 bar: black)		
Weight	approx. 100g		

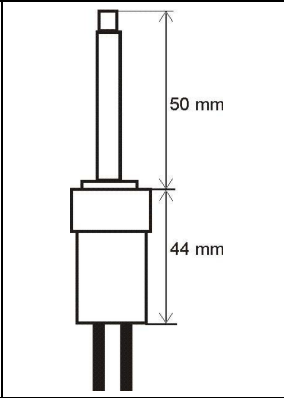
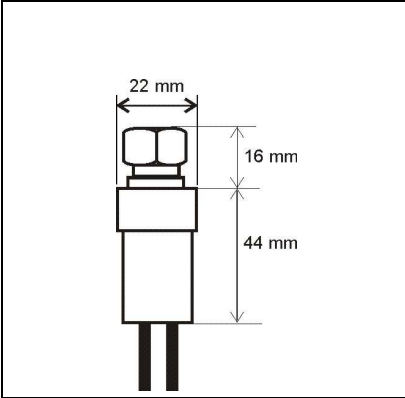
*) PS4-Pressure Switch are not released for flammable refrigerants

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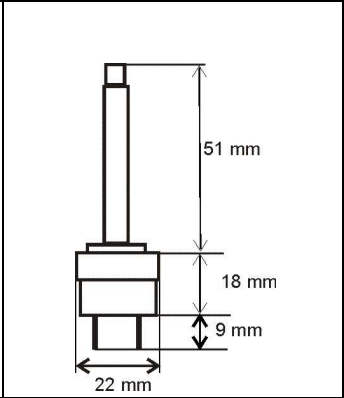
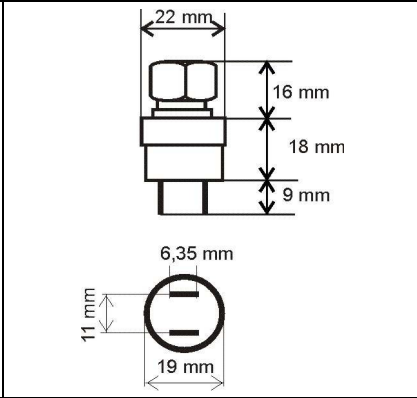
Dimensions

Pressure Connection 7/16-20 UNF	Braze 6mm, 1/4"	Pressure Connection 7/16-20 UNF	Braze 6mm, 1/4"
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PS4-A and PS4-W cable version



PS4-A and PS4-W terminal version



PS4-B cable version

