

# Pressure controls series PS4 with fixed settings for OEM 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 (W & B)
- UL approved
- Released for A2L applications, please check the Operating Instructions
- Minimum order quantity 100 pieces



PS4

## Standards

- According to Low Voltage Directive and European scheme ENEC05
- According to Electrical Equipment Directive 14/35/EU
- 0035 According to Pressure Equipment Directive 14/68/EU
- Underwriter Laboratories file Nr. E258370

## Type code

PS4 - W 1

Product name      ↑      ↑      ↑

Function      ↑      ↑      ↑      Electrical Connection

<p><b>A</b> Pressure controls, automatic, high pressure or low pressure</p> <p><b>W</b> Pressure limiters, automatic type approval acc. EN 12263, (EN 12263 &amp; EN 378: PSL/ PSH)</p> <p><b>R</b> Pressure controls, external manual reset (by hand)</p> <p><b>B</b> Pressure limiters, external manual reset (by hand); type approval, acc. EN 12263, (EN 12263 &amp; EN 378: PZH)</p>	<p><b>1</b> Silver contact with molded cable, normally closed (NC)</p> <p><b>2</b> Silver contact with molded cable, normally open (NO)</p> <p><b>3</b> Silver contact with quick connector QC (for push-on spades), normally closed (NC)</p> <p><b>4</b> Silver contact with quick connector QC (for push-on spades), normally open (NO)</p> <p><b>5</b> Gold-plated contact with molded cable, normally closed (NC)</p> <p><b>L</b> Silver contact with molded cable suitable for manual reset, normally closed (NC)</p>
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## Selection table - low pressure switches with automatic reset; open on falling pressure

Type	Part No.	Setting		Connector (QC) Cable	Test Pressure	EN 12263	Type of contact	Pressure Connection
		Cut-out	Cut-in					
PS4-W1	808269	0.3 bar	1.5 bar	3.0 m	25 bar	PSL	silver	6 mm brazing
PS4-A1	808266	0.4 bar	1.4 bar	1.5 m		-	silver	7/16-20UNF*
PS4-W1	808208	0.6 bar	1.8 bar	1.5 m		PSL	silver	7/16-20UNF*
PS4-W1	808251	0.6 bar	1.8 bar	3.0 m		PSL	silver	6 mm brazing
PS4-W5	808289	0.6 bar	1.8 bar	1.5 m		PSL	gold-plated	6 mm brazing
PS4-W1	808209	0.7 bar	2.1 bar	1.5 m		PSL	silver	7/16-20UNF*
PS4-W1	808241	0.7 bar	2.4 bar	3.0 m		PSL	silver	7/16-20UNF*
PS4-A1	808247	1.5 bar	2.5 bar	2.5 m		-	silver	7/16-20UNF*
PS4-A1	808229	1.5 bar	3.0 bar	1.5 m		-	silver	7/16-20UNF*
PS4-W1	808210	1.7 bar	3.4 bar	1.5 m		PSL	silver	7/16-20UNF*
PS4-W1	808249	1.7 bar	3.4 bar	1.5 m		PSL	silver	6 mm Brazing
PS4-W1	808271	1.8 bar	3.2 bar	1.5 m		PSL	silver	7/16-20UNF*
PS4-A1	808276	3.3 bar	4.8 bar	1.5 m		-	silver	7/16-20UNF*
PS4-W3	808235	0.6 bar	1.8 bar	QC		PSL	silver	7/16-20UNF*
PS4-W3	808284	1.2 bar	2.9 bar	QC		PSL	silver	6 mm Brazing
PS4-W3	808243	1.7 bar	3.4 bar	QC		PSL	silver	7/16-20UNF*

Note: \*) 7/16-20UNF female with Schrader valve opener

### Selection table - high pressure switches with automatic reset; open on rising pressure

Type	Part No.	Setting		Connector (QC) Cable	Test Pressure	EN 12263	Contact Function	Application	Pressure Connection	
		Cut-out	Cut-in							
PS4-W1	808200	18 bar	13 bar	1.5 m	41 bar	PSH	Open on rising pressure	High pressure	7/16-20UNF*	
PS4-W1	808265	18 bar	13 bar	3.0 m					6mm	
PS4-W1	808201	26 bar	20 bar	1.5 m					7/16-20UNF*	
PS4-W1	808224	26 bar	20 bar	3.0 m					6mm	
PS4-W1	808 282	24 bar	18 bar	5.0 m					7/16-20UNF*	
PS4-W3	808236	26 bar	20 bar	QC					1/4"	
PS4-A1	808260	26 bar	20 bar	1.5 m	None	Open on rising pressure	High pressure	7/16-20UNF*		
PS4-W1	808203	28 bar	21 bar	1.5 m	PSH					
PS4-A1	808233	28 bar	21 bar	1.5 m	none					
PS4-A1	808244	28 bar	21 bar	1.5 m	PSH					
PS4-W3	808273	29 bar	22.8 bar	QC	None					
PS4-A1	808237	29.5 bar	22.5 bar	1.5 m	None					
PS4-A1	808238	31 bar	24 bar	1.5 m	None					
PS4-A1	808248	32 bar	24 bar	2.5 m						
PS4-W1	808205	42 bar	33 bar	1.5 m	69 bar			PSH	High pressure	7/16-20UNF Female with Schrader Opener
PS4-W3	808242	42 bar	33 bar	QC						
PS4-W5	808287	45 bar	34 bar	1.5 m						
PS4-W1	808261	45 bar	35 bar	1.5 m						6mm

### Selection table - high pressure switches with automatic reset; close on rising pressure

Type	Part No.	Setting		Connector (QC) Cable	Test Pressure	EN 12263	Contact Function	Application	Pressure Connection
		Cut-Out	Cut-in						
PS4-A2	808212	13 bar	18 bar	1.5 m	41 bar	None	Close on Rising Pressure	Fan control	7/16-20UNF Female with Schrader Opener
PS4-W2	808274	14.6 bar	20 bar	1.5 m					
PS4-A2	808264	17 bar	22.6 bar	1.5 m					
PS4-W2	808227	22 bar	28 bar	1.5 m	55 bar	PSH			

### Selection table - high pressure switches with manual reset; open on rising pressure

Type	Part No.	Setting		Connector (QC) Cable	Test Pressure	EN 12263	Contact Function	Application	Pressure Connection
		Cut-Out	Cut-in						
PS4-BL	808202	26 bar	-	1.5 m	41 bar	PZH	Open on Rising Pressure	high pressure EN 378	7/16"-20UNF Female with Schrader Opener
PS4-BL	808204	28 bar	-	1.5 m	55 bar				
PS4-BL	808206	42 bar	-	1.5 m	55 bar				

### Technical data

Type	Cable or Terminal (QC)* Version				Cable Version		
	PS4-A		PS4-W		PS4-B / PS4-R		
Setting (bar)	0 - 6.9	7 - 27.6	27.7 - 38	38.1 - 50	13.8-27.6	27.7 - 38	38.1 - 50
PMAx / PS (bar)	25	41	55	69	41	55	68
Fluid group / Refrigerants (ASHARE)	I & II / A1 & A2L Refrigerants, Mineral-, Synthetic-, POE-Lubricant						
Life time	> 100.000 cycles PS4-B... / PS4-R... versions 10.000 cycles (6.000 for UL approved)						
Vibration resistance	4 g (10...250 Hz)						
Temperature range	Medium: -40 °C...+135 °C      Ambient: -40 °C...+65 °C						
Hazard Category (PED 2014/68/EU)	PS4-W... & PS4-B...versions: IV / Module B + D						
Weight	~ 100 g						
Markings	 (LVD & ENEC05)  0035 (PED), 						

### Electrical data

Type	Cable or Terminal (QC)* Version		Cable Version
	PS4-A	PS4-W	PS4-B / PS4-R
Silver contact:	0.1...6 A		0.1...6 A
Inductive Load 230 VAC Inductive Load (DC <28V) Motor rating FLA 230 VAC Motor rating LRA 230 VAC	2 A		2 A
	6 A		3 A
	36 A		15 A
	250 mA		-
Gold contact (12 / 24 VDC):			
Protection class (IEC 529 / DIN 40050)	IP67 (IP00 for Terminal QC Version)		
Cable Version Cable Colour	18 AWG 0.8 mm <sup>2</sup> . 600 V (max. 125 °C) Low pressure: (0...8.5 bar: blue) High Pressure: (>8.5 bar: black)		