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Pressure Switch



JIS graphic symbols for hydraulic system



Features

• Detects the pressure in the hydraulic circuit and turns the electric circuit on and off.

Nomenclature

JPS ·

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10 -

1 Model No.

(Applicable fluids: petroleum-based hydraulic oil) JPS: J series pressure switch

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2 Pressure adjustment range

1: 0.5 to 7 MPa {5 to 70 kgf/cm²}

2: 0.5 to 16 MPa {5 to 160 kgf/cm²}

3: 0.8 to 25 MPa {8 to 250 kgf/cm²}

3 Voltage code

(Applicable only to the option code CL (with lamp))

A: AC 100 V (50/60 Hz), AC 110 V (50/60 Hz)

B: AC 200 V (50/60 Hz), AC 220 V (50/60 Hz)

P: DC 24 V

4 Design No.

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(The design No. is subject to change)

5 Option code

No designation: Lead wire type

C: DIN connector type (without lamp) - Wiring port PG11 CL: DIN connector type (with lamp) - Wiring port PG11 CG04: DIN connector type (without lamp) - Wiring port G½

Specifications

Model code	Maximum operating pressure MPa {kgf/cm²}		Pressure adjustment range MPa {kgf/cm²}	Maximum switching frequency Times per minute	Hysteresis MPa {kgf/cm²}	Repeatability MPa {kgf/cm²}	Mass kg
JPS-1*-10			0.5 to 7 {5 to 70}		0.3 {3} maximum		
JPS-2*-10	25 {250}	2 {20}	0.5 to 16 {5 to 160}	60	0.4 {4} maximum	0.1 {1} maximum	0.72
JPS-3*-10			0.8 to 25 {8 to 250}		0.5 {5} maximum		

Operating ambient temperature	Operating ambient humidity	Dust-/water-proof property* ²
−15 to 50°C (no freezing)	0 to 85% RH (no condensation)	IEC 529 IP65

Note: *2 Only DIN connector types

Model code	Pressure change MPa {kgf/cm²} per handle revolution		
JPS-1×	1.2 {12 }/revolution		
JPS-2×	2.1 {21}/revolution		
JPS-3*	3.1 {31}/revolution		

Microswitch specifications

Manufacturer: OMRON Corporation

Model: SS-5-L (DA)

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Insulation resistance	Withstand voltage *	Contact resistance	Vibration resistance	stance resistance	Times per minute		Service life	
		(Initial value)			Mechanical	Electrical	Mechanical	Electrical
100 M Ω minimum	(1) AC 1000 V, 1 minute (2) AC 1500 V, 1 minute	\ /	(4) Contact opening gap 1 ms maximum	(5) Contact opening gap 1 ms maximum	400 (maximum)	30 (maximum)	10 million times	100 thousand times

Note: * Withstand voltage: (1) Between terminals of the same pole

(2) Between each terminal and ground, between each terminal and non-charged metal section

(3) DC 6 to 8V, 1 A applied

(4) Double amplitude: 1.5 mm, vibration frequency: 10 to 55 Hz

(5) Maximum of 100 m/s² applied in a drop impact test conforming to JIS C 0912.

Before using the product, please check the guide pages at the front of this catalog.

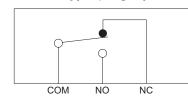
Microswitch specifications

Rated voltage	Steady current
AC 125 V	5 A
AC 250 V	3 A
DC 30 V	4 A
DC 125 V	0.4 A

Note: O The current values indicated are the values with the resistance load applied.

O Minimum applicable load: DC 5 V, 160 mA

Contact type (single pole double throw type)

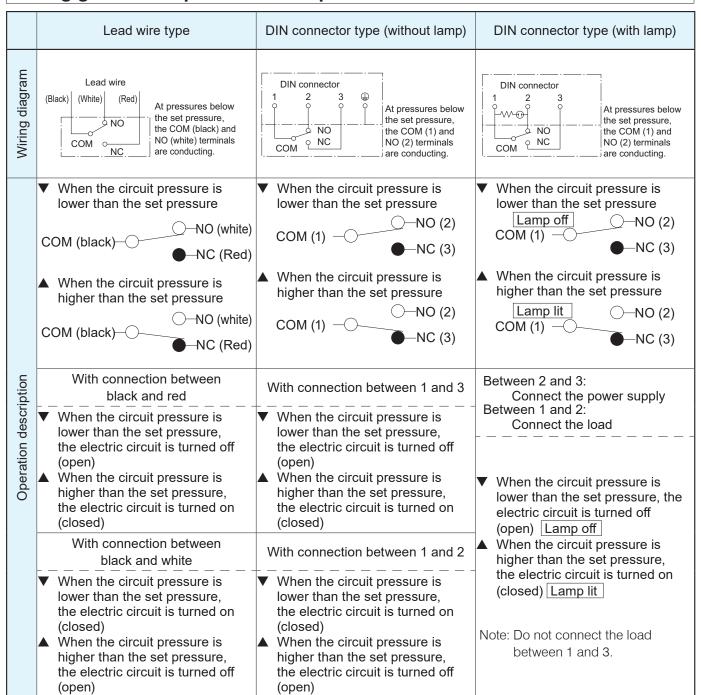


Microswitch terminals COM: COMMON NO: NOMALLY OPEN NC: NOMALLY CLOSED

Handling

• When directly switching the DC solenoid valve, use a solenoid valve with surge killer.

Wiring guide and operation description

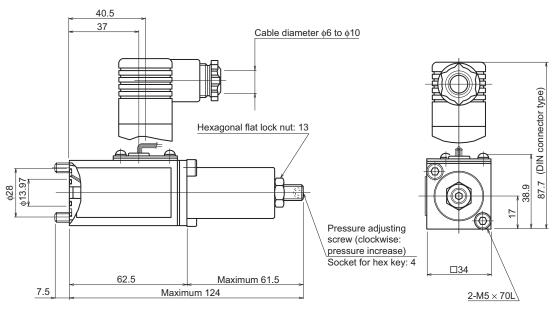


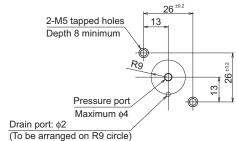
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External dimension diagram

JPS-**-10 (C)

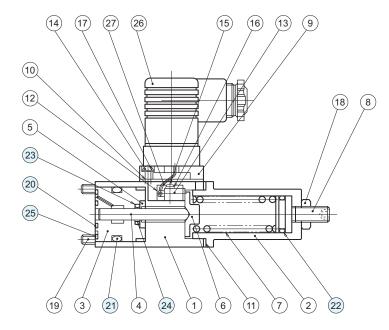




Detail of installation dimensions

Sectional structural diagram

JPS-**-10-C



Sealing part table

Part No.	Name	Adjustment range	Quantity	Part No.
		Type 1	1	HP12776
24	Sealing ring	Type 2	1	HP12777
		Type 3	1	HP12778

Part No.	Name	Quantity	Part specifications
20	O-ring	1	AS568-013 (NBR, Hs90)
21	O-ring	1	JIS B 2401 1A P22A
22	O-ring	1	JIS B 2401 1A P15
		1	Type 1: JIS B 2401 1A P8
23	O-ring	1	Type 2: JIS B 2401 1A P7
		1	Type 3: JIS B 2401 1A P6
25	O-ring	1	JIS B2401 1B P21