

# Pressure Switch & Oil Level

Pressure Switch

Modular Pressure Switch

Oil Level Switch





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Pressure Switch & Oil Level

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# JC-PSD-03



## ORDER CODES

**JC-PSD-03** - **2**

①

②

① ▶ <b>Model Name</b>	<b>JC-PSD-03H, JC-PSD-03, JC-PSD-03L</b>		
② ▶ <b>Thread Connection</b>	<b>1</b>	3/8" PT	
	<b>2</b>	3/8" NPT	
	<b>3</b>	3/8" BSPP	

## MODEL SPEC.

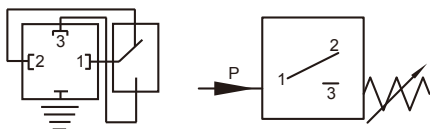
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
JC-PSD-03H	20 - 300	350	0.55
JC-PSD-03	10 - 200	350	
JC-PSD-03L	1 - 20	200	

### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

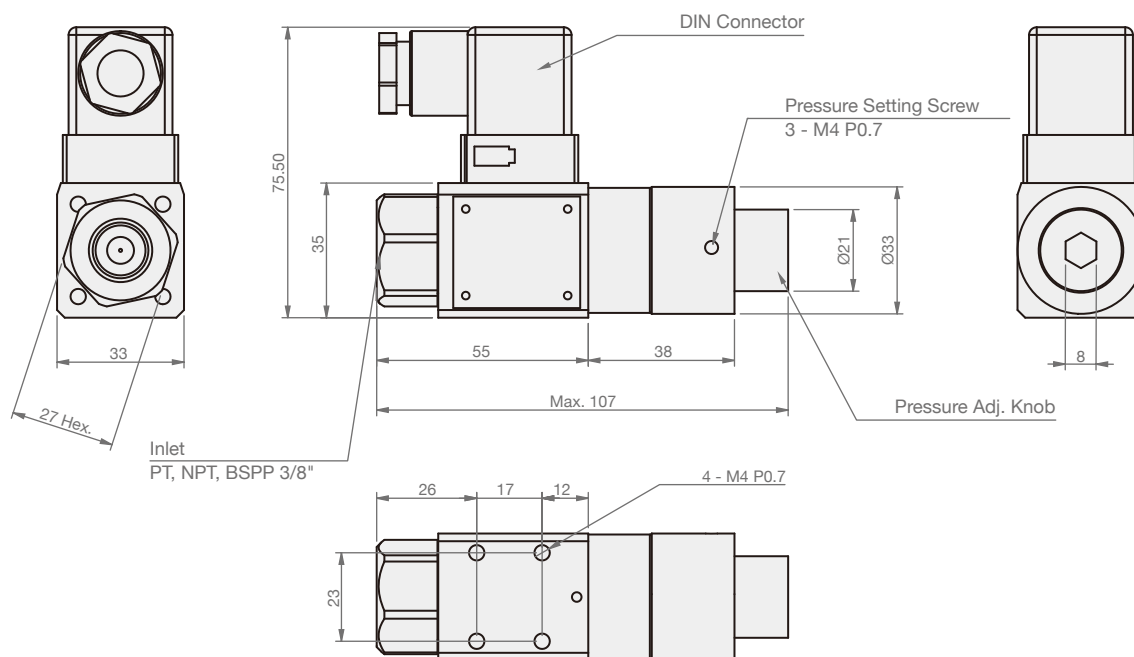
DC24V / 20mA

## SYMBOLS



## DIMENSION

( UNIT : mm )



# JC-PS-02



## ORDER CODES

JC-PS-02 - 2

1

2

1	Model Name	JC-PS-02, JC-PS-02L, JC-PS-02LL
2	Thread Connection	1 1/4" PT 2 1/4" NPT 3 1/4" BSPP

## MODEL SPEC.

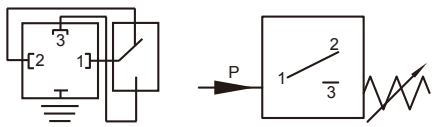
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
JC-PS-02	30 - 600	700	0.75
JC-PS-02L	10 - 230	350	
JC-PS-02LL	5 - 60	250	

## Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

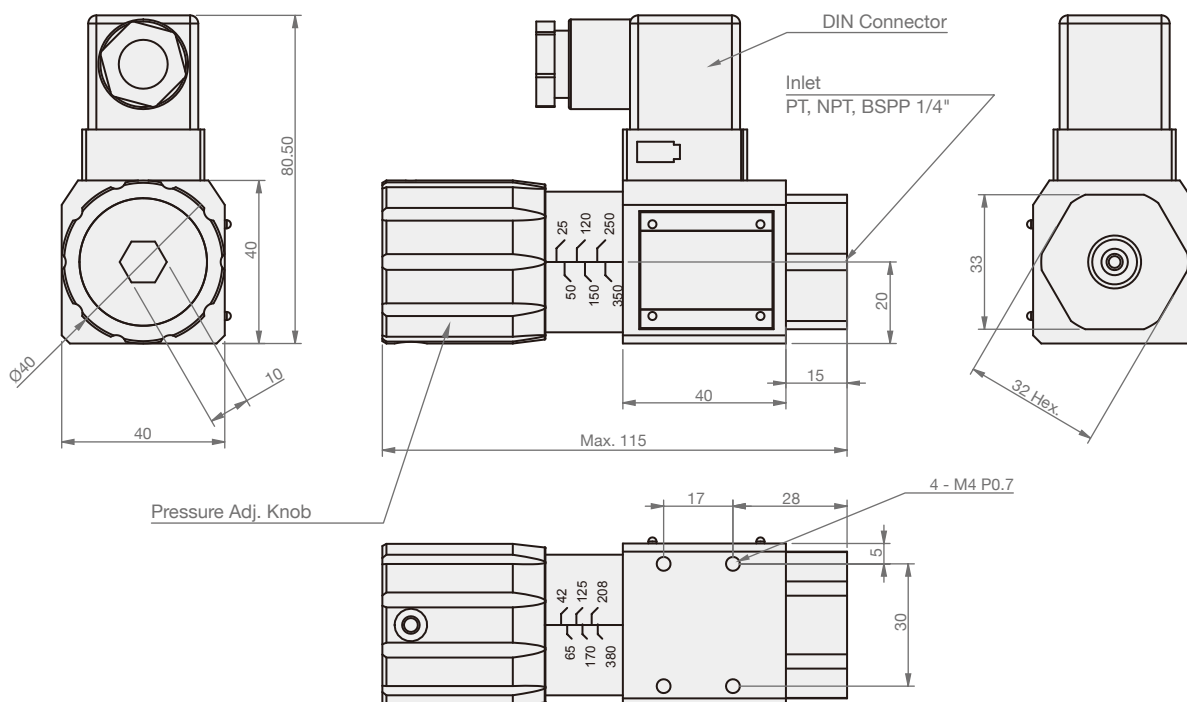
DC24V / 20mA

## SYMBOLS



## DIMENSION

( UNIT : mm )



# JCS-02N



## ORDER CODES

**JCS-02N - 1**

①

②

① ▶ Model Name	JCS-02N, JCS-02NL, JCS-02NLL, JCH-02	
② ▶ Thread Connection	1	1/4" PT
	2	1/4" NPT
	3	1/4" BSPP

## MODEL SPEC.

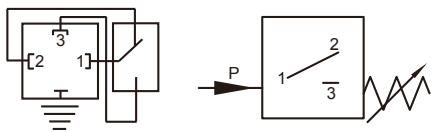
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
JCS-02N	20 - 210	350	1.0
JCS-02NL	15 - 60	350	
JCS-02NLL	5 - 40	60	
JCH-02	20 - 600	700	

## Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

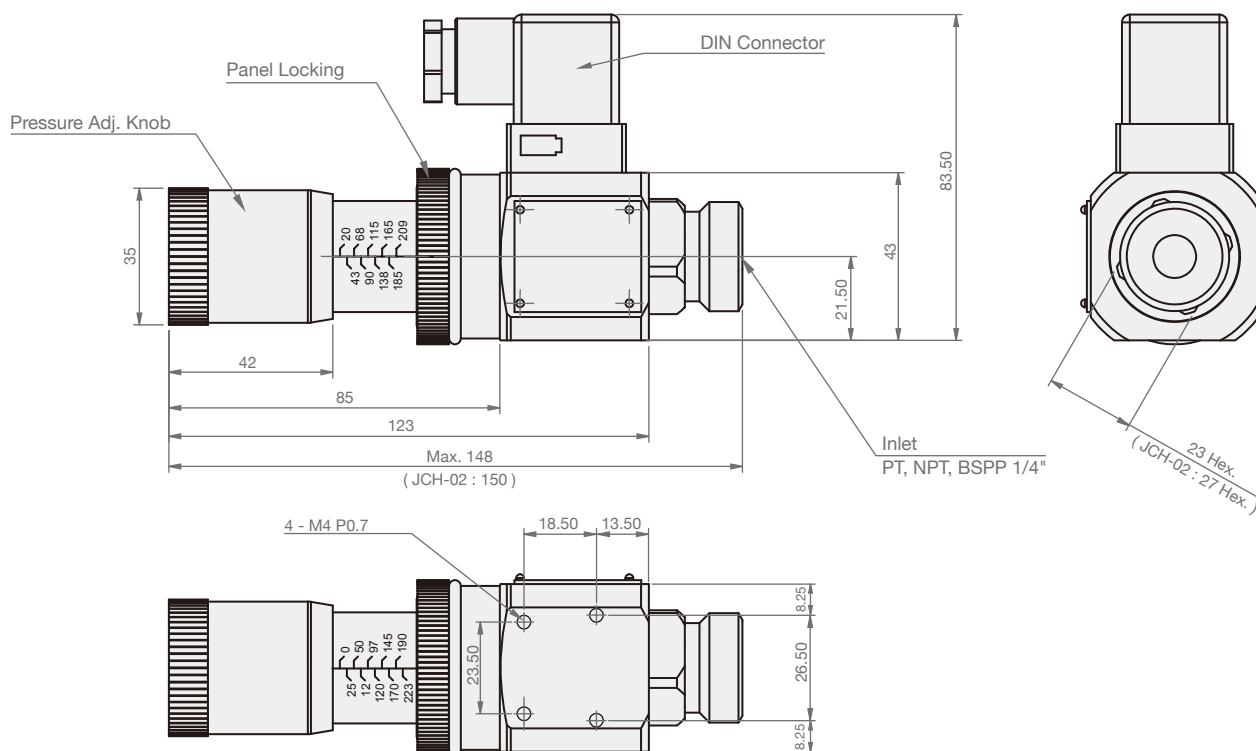
DC24V / 20mA

## SYMBOLS



## DIMENSION

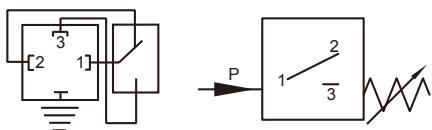
( UNIT : mm )



# JCD-02



## SYMBOLS



## ORDER CODES

**JCD-02S - 1**

①

②

① ▶	Model Name	JCD-02S, JCD-02H, JCD-02HH		
② ▶	Thread Connection	1	1/4" PT	
		2	1/4" NPT	
		3	1/4" BSPP	

## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
JCD-02S	4 - 26	50	0.8
JCD-02H	15 - 200	350	
JCD-02HH	20 - 360	600	

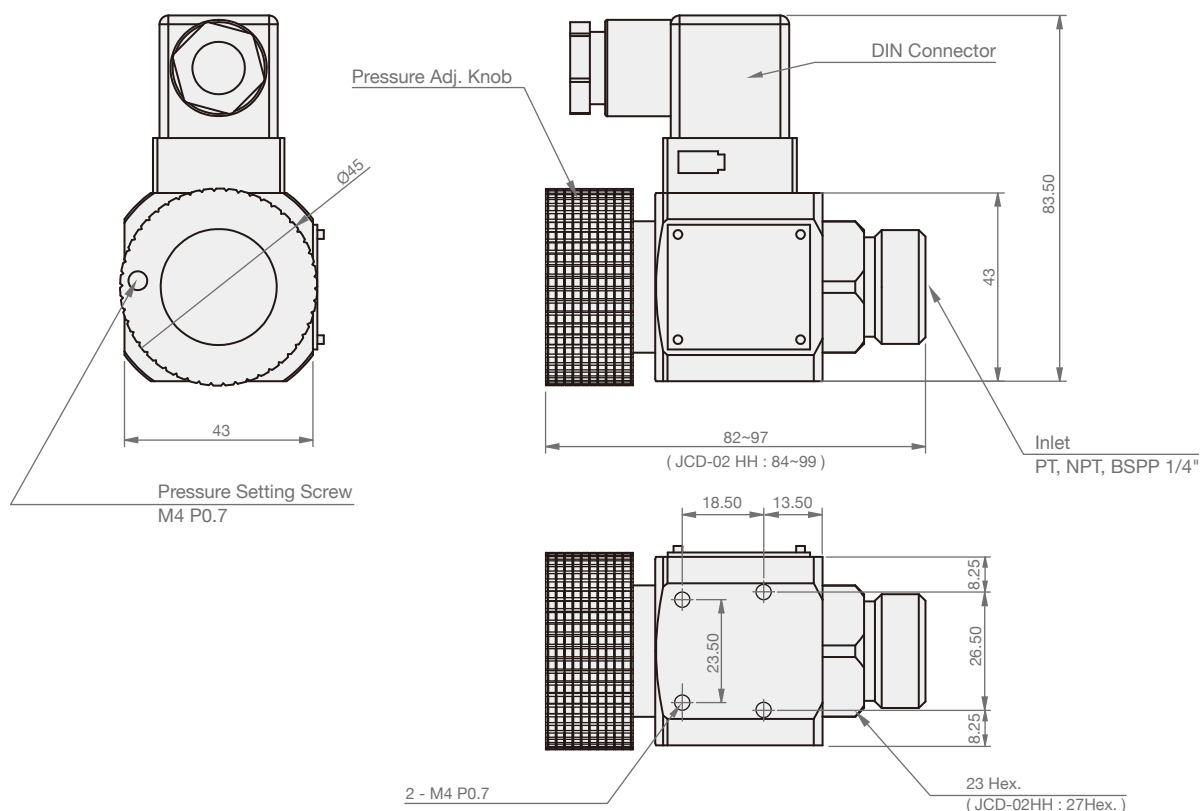
### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

DC24V / 20mA

## DIMENSION

( UNIT : mm )



# JC-PDH



## ORDER CODES

**JC-PDH-H - 1**

1

2

1	Model Name	JC-PDH-H
2	Thread Connection	1 3/8" PT

## MODEL SPEC.

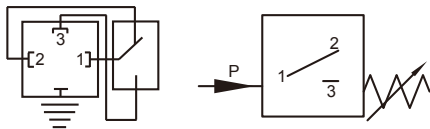
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
JC-PDH-H	15 - 200	350	0.4

### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

DC24V / 20mA

## SYMBOLS

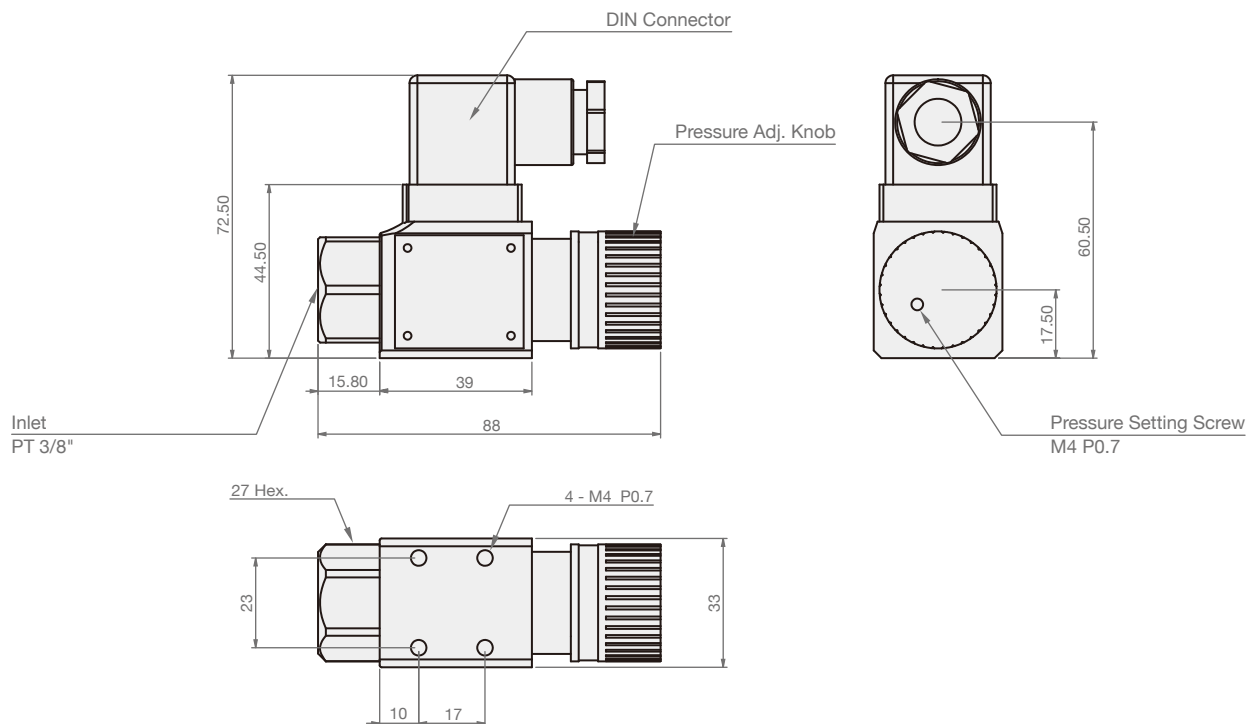


### Accessory :

Transparent DIN Connector  
( AC / DC / Double LED indicators )  
Operating current : 0.5A or less

## DIMENSION

( UNIT : mm )





# MJCSD-01-SC



## ORDER CODES

**MJCSD-01** - **SC**

①	Model Name	MJCSD-01, MJCSD-01L
②	Pressure Adj. Knob	SC

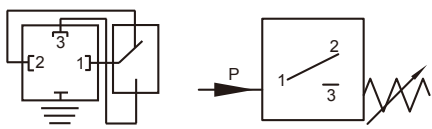
## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCSD-01-SC	10 - 250	350	0.7
MJCSD-01-L-SC	5 - 60	200	

## Operating Voltage / Current

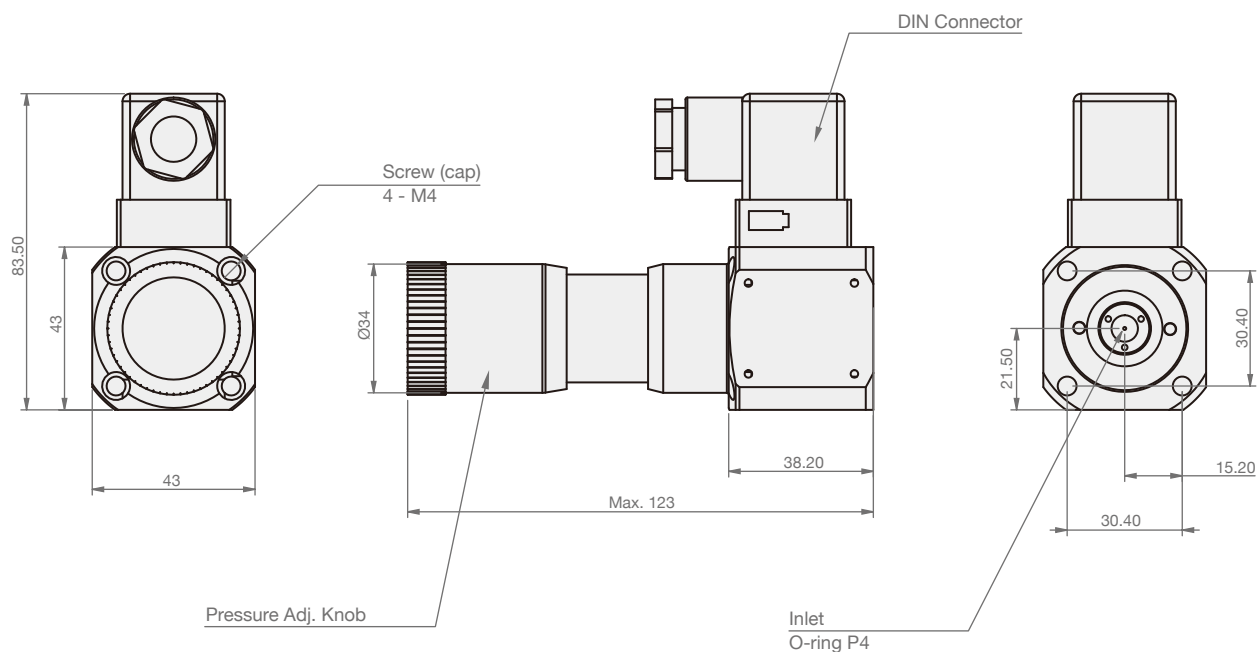
AC250V / 3A AC125V / 5A	DC24V / 20mA
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## SYMBOLS



## DIMENSION

( UNIT : mm )



# MJCSD-01



## ORDER CODES

### MJCSD-01

1	Model Name	MJCSD-01, MJCSD-01-L
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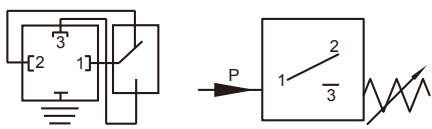
## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCSD-01	10 - 250	350	0.6
MJCSD-01-L	5 - 60	200	

### Operating Voltage / Current

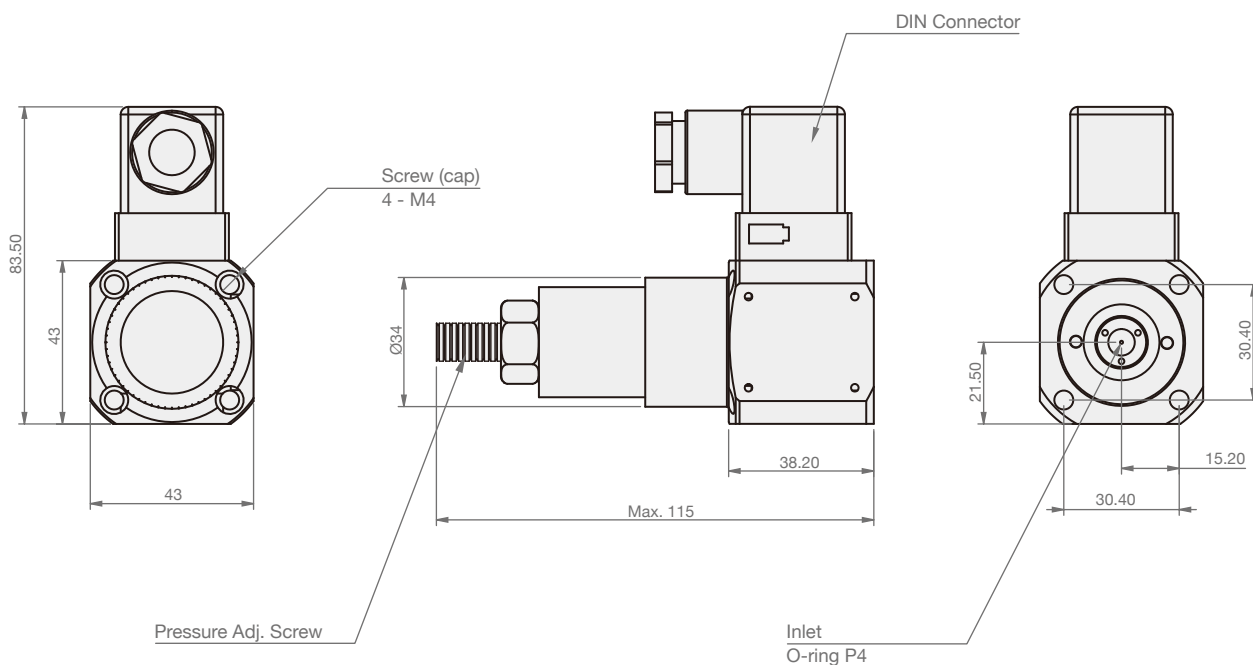
AC250V / 3A AC125V / 5A	DC24V / 20mA
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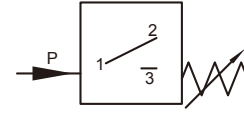
## SYMBOLS



## DIMENSION

( UNIT : mm )




$$\text{DPS} - 500 - A$$

Model	DPS
Pressure Range ( PSI )	5, 15, 50, 75, 100, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000
Accuracy	±0.25% full scale
Output Type	4 digits LCD, 4 ~ 20mA current output, and a NPN limit switch
Keypad Operated Functions	peak hold, zero adjustment, high and low pressure set points
Supply Voltage	DC 12V
Operating Temperature	-10 ~ 60°C
Water Resistant Level	NEMA 4X (IP65)
Options of Pressure Unit	PSI, Bar, Mpa
Media Isolation	316L SS diaphragm
Thread Connection	304L SS port 22mm 1/4 - 18 NPT or 22mm 1/8 - 27 NPT
Chemical Compatibilities	any gas or liquid with chemically compatible to 304L SS and 316L SS
Typical Applications	process control, refrigeration, fuel cells, pumps, hydraulics, pneumatics, compressors, waste water, agriculture
Weight ( kg )	0.38

PNP type

DC 12V

DC 12V Relay

COM

NC

NO

DC 12V

COM

NC

NO

NPN type

DC 12V

DC 12V Relay

COM

NC

NO

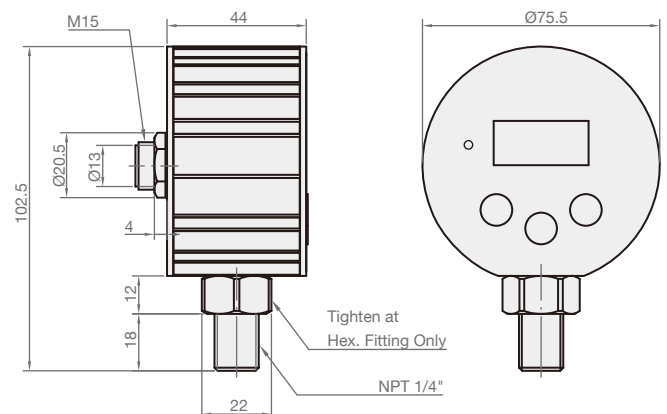
DC 12V

COM

NC

NO

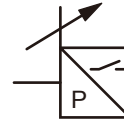
( UNIT : mm )



# JC-DPS-N



## SYMBOLS



## ORDER CODES

**JC-DPS-N** - **420** - **1**

①

②

③

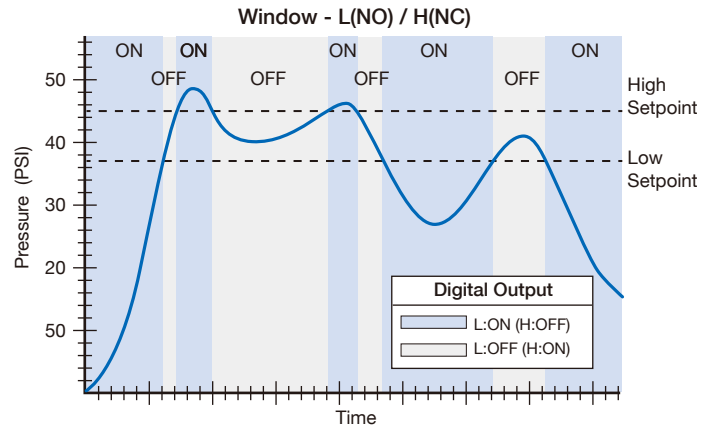
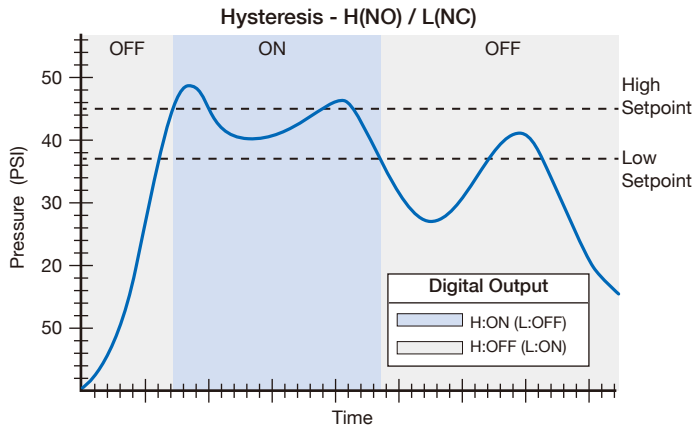
① ▶	Model Name	JC-DPS-N	
② ▶	Used Pressure (bar)	150, 250, 350, 420	
③ ▶	Thread Connection	1	1/4" PT
		2	1/4" NPT
		3	1/4" BSPP

## MODEL SPEC.

Model	JC-DPS-N
Pressure Range ( bar )	150, 250, 350, 420
Burst Pressure	Min. 10000 psi
Accuracy	±1% F.S. @ 25±3°C
Supply Voltage	10 to 30 VDC
Current Consumption	<20 mA (not including switch output)
Protection	Power reverse protection, over load protection
Output	NPN or PNP mode, with 100 mA, 30 VDC (max.)
Power Connector	M12 (4 pin)
Working Temperature	-10~60°C (14~140°F), non-frozen state
Storage Temperature	-40~85°C (40~185°F), non-frozen state
Chemical Compatibilities	gas / liquid compatible with 304L & 316L
Material	Front & rear cover: ABS, port: SUS304L/SUS316L
Waterproof	IP65
Weight ( kg )	0.15

## SWITCH CONTROL TYPE PARAMETER

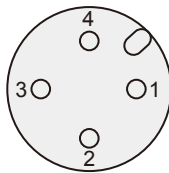
The real output is depends on the output type and control type. For example, if the high threshold setting is 45.00 psi and low threshold setting is 37.00 psi, the switch output will be shown as below figure. The switch output is turned on when it is active.



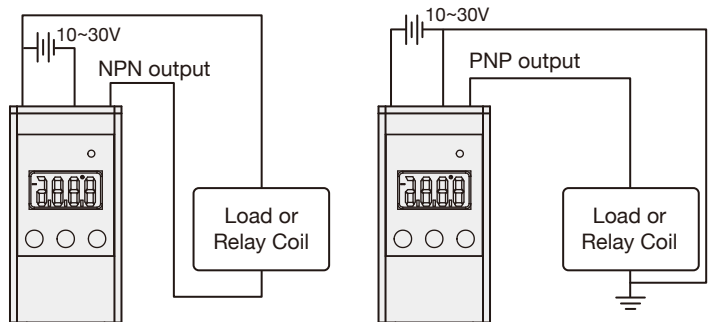
## WIRING INSTRUCTION

### Pin Assignment

1	V+, Power positive	brown
2	E case, earth	green
3	V-, Power negative	blue
4	Switch output	white

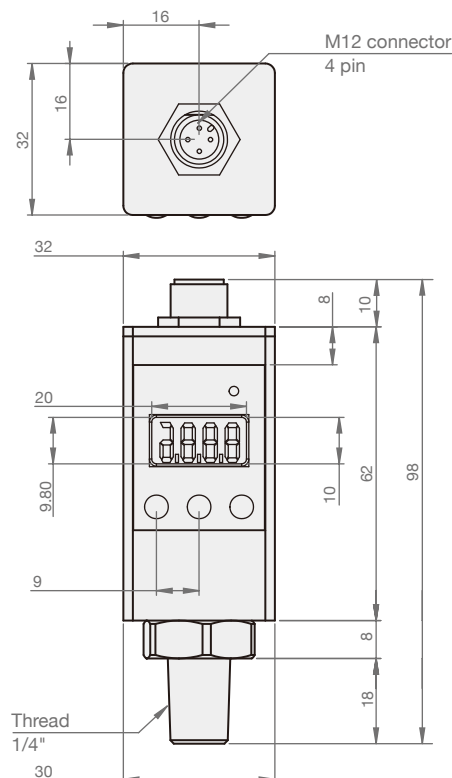


### The application circuit for NPN or PNP output.



## DIMENSION

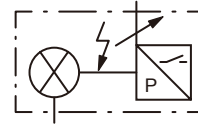
( UNIT : mm )



# JC-DPS-NS



## SYMBOLS



## ORDER CODES

**JC-DPS-NS** - **420** - **1**

1

2

3

1	Model Name	JC-DPS-NS (w/Pressure Transducer)	
2	Used Pressure (bar)	150, 250, 350, 420	
3	Thread Connection	1	1/4" PT
		2	1/4" NPT
		3	1/4" BSPP

## MODEL SPEC.

Model	JC-DPS-NS
Pressure Range ( bar )	150, 250, 350, 420
Burst Pressure	Min. 10000 psi
Accuracy	±1% F.S. @ 25±3°C
Supply Voltage	10 to 30 VDC
Current Consumption	<20 mA (not including switch output)
Protection	Power reverse protection, over load protection
Output	NPN or PNP mode, with 100 mA, 30 VDC (max.)
Analog Current Output ( option "I" )	4~20mA, 0~20mA, 0~24mA option selected by panel operation
Analog Voltage Output ( option "V" )	0~5V, 0.5~4.5V, 1~5V, 0~10V, 1~10V, option selected by panel operation
Power Connector	M12 (6 pin)
Working Temperature	-10~60°C (14~140°F), non-frozen state
Storage Temperature	-40~85°C (40~185°F), non-frozen state
Chemical Compatibilities	gas / liquid compatible with 304L & 316L
Material	Front & rear cover: ABS, port: SUS304L/SUS316L
Waterproof	IP65
Weight ( kg )	0.15

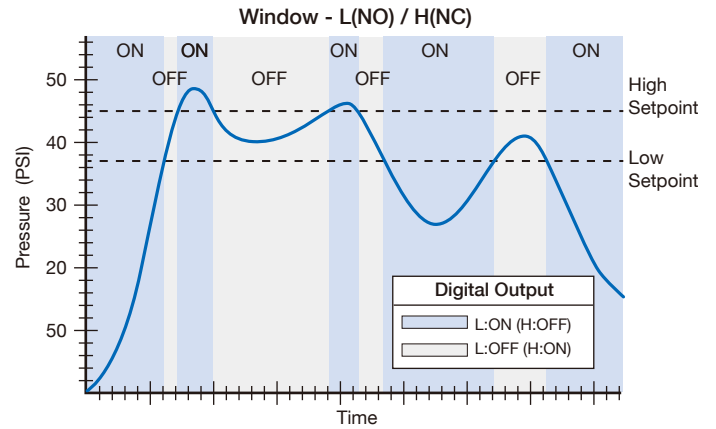
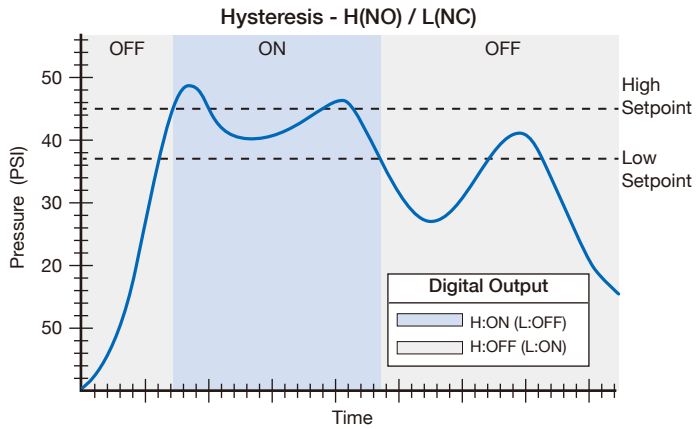
### Analog Output Format Option

Analog Current Output	
4~20mA	Zero pressure: 4mA, Full pressure: 20mA
0~20mA	Zero pressure: 0mA, Full pressure: 20mA
0~24mA	Zero pressure: 0mA, Full pressure: 24mA

Analog Voltage Output	
0~5V	Zero pressure: 0V, Full pressure: 5V
0.5V~4.5V	Zero pressure: 0.5V, Full pressure: 4.5V
1~5V	Zero pressure: 1V, Full pressure: 5V
0~10V	Zero pressure: 0V, Full pressure: 10V
1~10V	Zero pressure: 1V, Full pressure: 10V

## SWITCH CONTROL TYPE PARAMETER

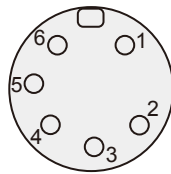
The real output is depends on the output type and control type. For example, if the high threshold setting is 45.00 psi and low threshold setting is 37.00 psi, the switch output will be shown as below figure. The switch output is turned on when it is active.



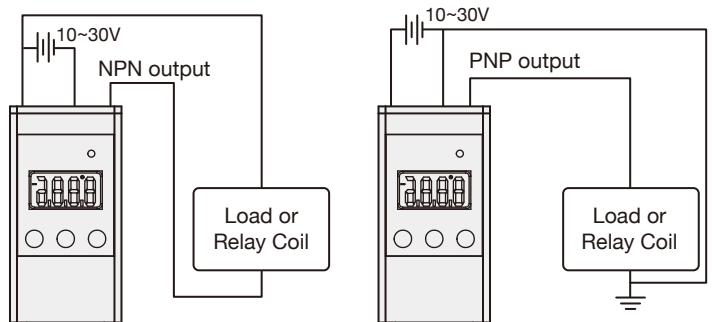
## WIRING INSTRUCTION

### Pin Assignment

1	V+, Power positive	brown
2	E case, earth	green
3	V-, Power negative	blue
4	Switch output	white
5	Voltage output	black
6	Current output	yellow

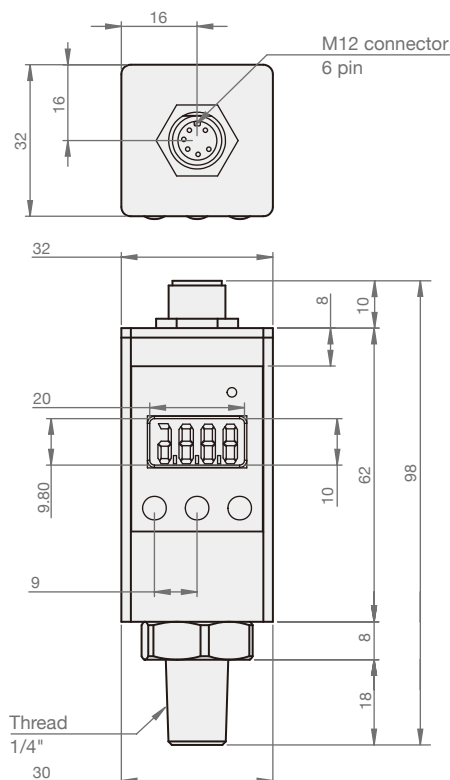


### The application circuit for NPN or PNP output.



## DIMENSION

( UNIT : mm )



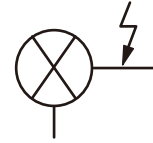
# JC-P5



## FEATURES

- CE Approved : EN61326, EN61000
- Superb Accuracy :  $\pm 0.5\%$
- Robust Package : all laser - welded stainless steel design for optimal media isolation.
- Flexibility : custom ASIC provides signal conditioning and temperature compensation.
- Standard and custom options available.
- Compact size, excellent price / capacity ratio.
- 5V input with 0.5~4.5V output.
- 8~30V input with 4~20mA, 1~5V & 0~10V output.

## SYMBOLS



## ORDER CODES

JC-P5	-	250	-	20mA	-	1	-	D
1		2		2		3		4

1	Model Name	JC-P5
2	Used Pressure (bar)	2, 70, 150, 250, 350, 420
3	Output Type	4.5V    0.5~4.5V
		5V    1~5V
		10V    0~10V
		20mA    4~20mA
4	Thread Connection	1    1/4" PT
		2    1/4" NPT
		3    1/4" BSPP
5	Wiring Type	D    DIN Connector
		L    1M integral harness*

\* Cable length optional

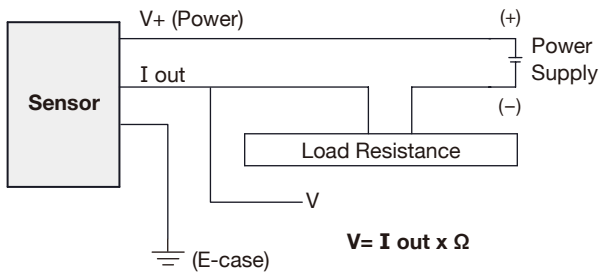
## MODEL SPEC.

Output Type	4.5V	5V	10V	20mA
	0.5~4.5V	1~5V	0~10V	4~20mA
Accuracy	< $\pm 0.50\%$ Full Scale			
Thermal Error	< $\pm 0.50\%$ Full Scale			
Zero Pressure Offset	0.50V	1.00V	0.00V	4.0mA
Full Scale Output	4.50V	5.00V	10.00V	20mA
Operating Temperature	-20~85 °C			
Storage Temperature	-40~105 °C			
Proof Pressure	2 x F.S.			
Burst Pressure	3 x F.S.			
Weight ( kg )	DIN connector type : 0.88			

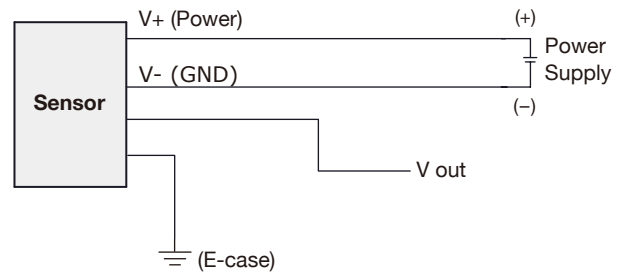


## CABLE CONNECTING INDICATION

### ► Analog Current Output

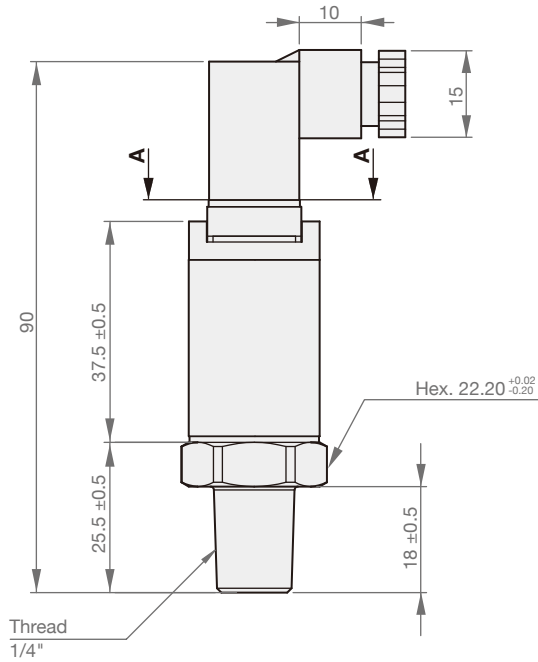


### ► Analog Voltage Output



## DIMENSION & WIRING INSTRUCTION

( UNIT : mm )

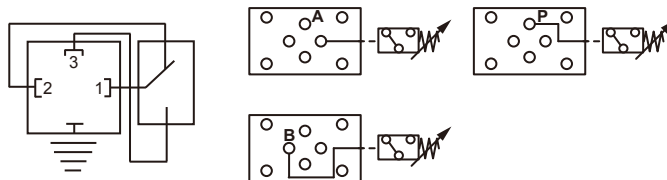


Cross-sectional View  
A-A

Pin Output	0.5~4.5V	1~5V	0~10V	4~20mA
1	Power (DC5V)	Power (DC10~30V)	Power (DC10~30V)	Power (DC10~30V)
2	V out	V out	V out	I out
3	GND (-)	GND (-)	GND (-)	N/A
4	E-case	E-case	E-case	E-case

# MJCS-02

## SYMBOLS



## MODEL SPEC.

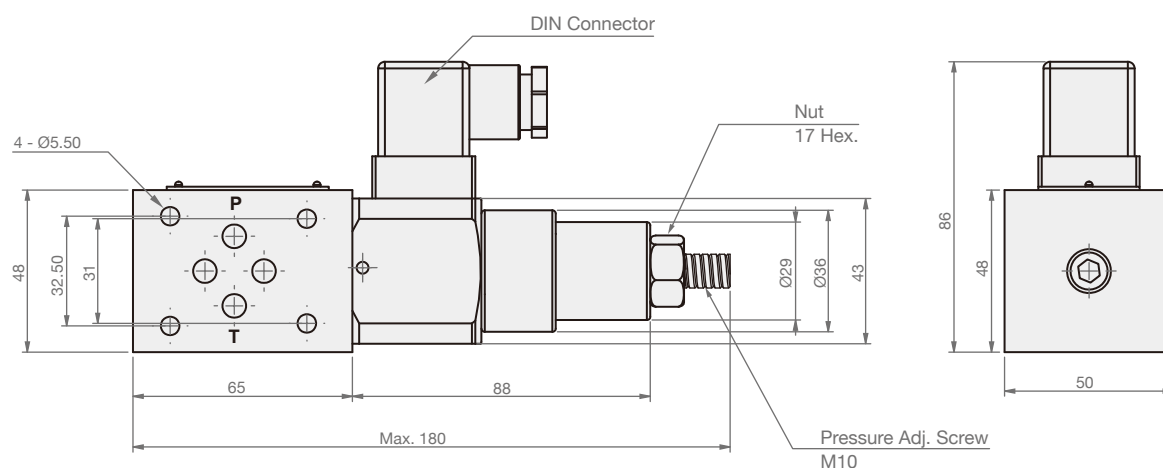
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-02A MJCS-02B MJCS-02P	30 - 210	350	1.64
MJCS-02AL MJCS-02BL MJCS-02PL	15 - 60	210	
MJCS-02ALL MJCS-02BLL MJCS-02PLL	5 - 40	60	

## Operating Voltage / Current

AC250V / 3A AC125V / 5A	DC24V / 20mA
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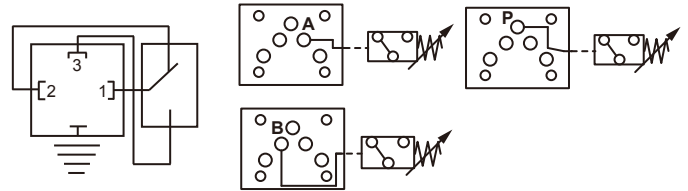
## DIMENSION

( UNIT : mm )



# MJCS-03

## SYMBOLS

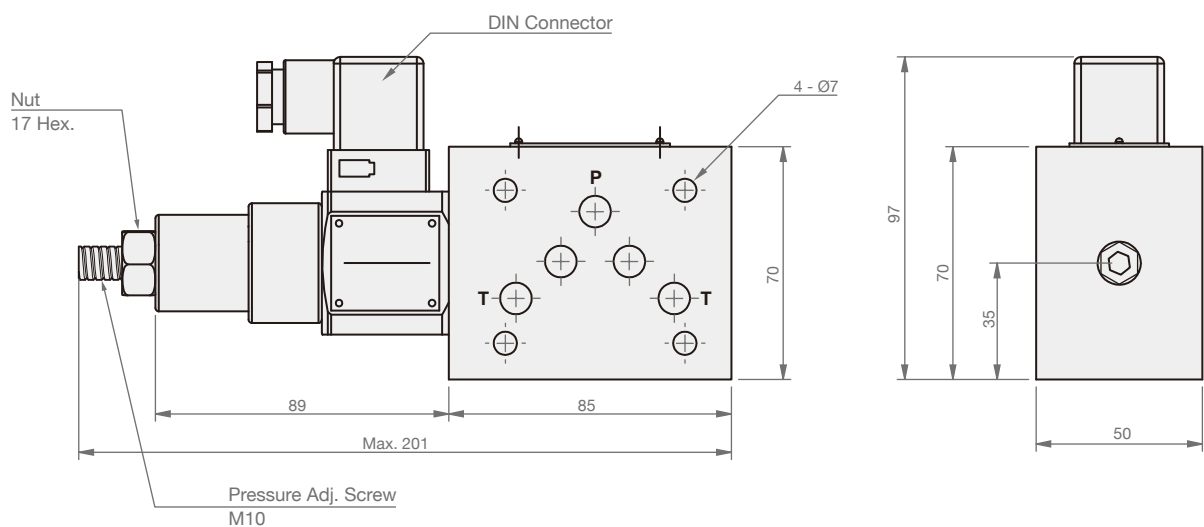


## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-03A MJCS-03B MJCS-03P	30 - 210	350	2.58
MJCS-03AL MJCS-03BL MJCS-03PL	15 - 60	210	
MJCS-03ALL MJCS-03BLL MJCS-03PLL	5 - 40	60	
Operating Voltage / Current			
AC250V / 3A AC125V / 5A		DC24V / 20mA	

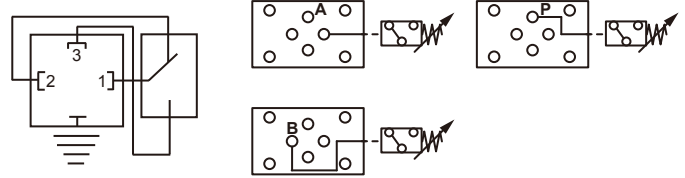
## DIMENSION

( UNIT : mm )



# MJCS-02-SC

## SYMBOLS

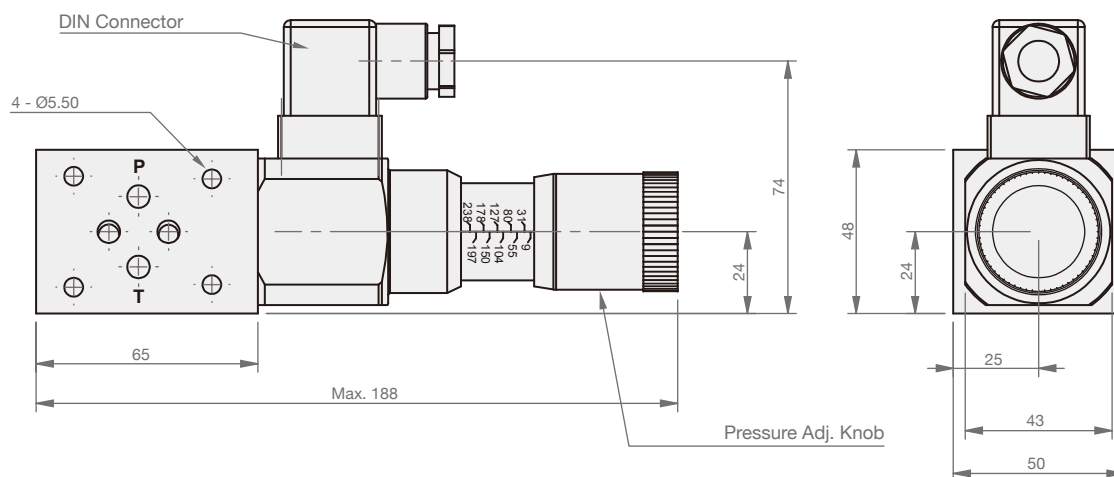


## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-02A-SC MJCS-02B-SC MJCS-02P-SC	30 - 210	350	1.75
MJCS-02AL-SC MJCS-02BL-SC MJCS-02PL-SC	15 - 60	210	
MJCS-02ALL-SC MJCS-02BLL-SC MJCS-02PLL-SC	5 - 40	60	
Operating Voltage / Current			
AC250V / 3A AC125V / 5A		DC24V / 20mA	

## DIMENSION

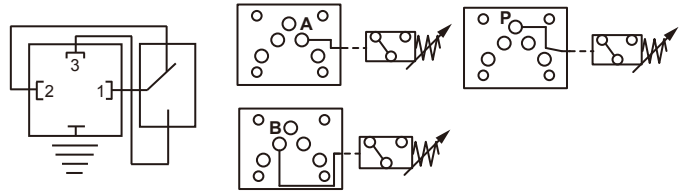
( UNIT : mm )



# MJCS-03-SC



## SYMBOLS

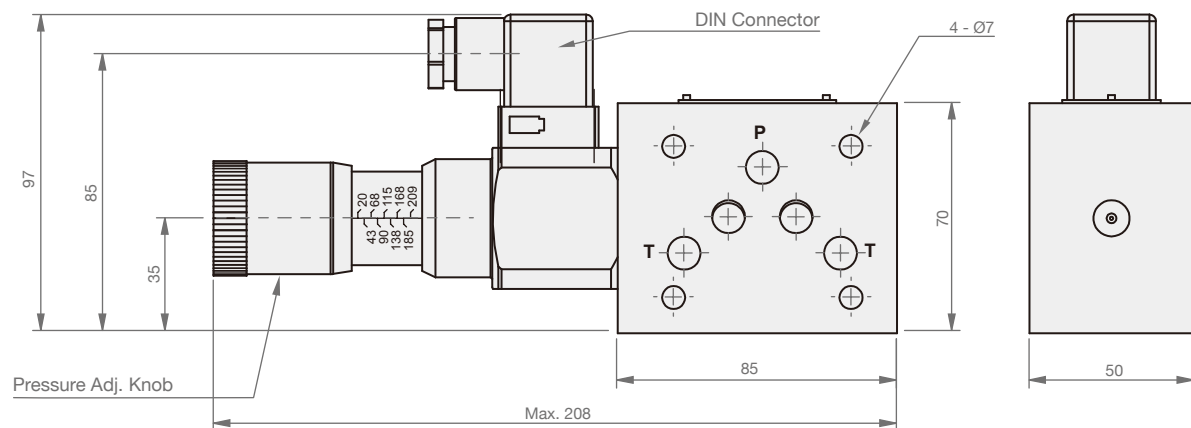


## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-03A MJCS-03B MJCS-03P	30 - 210	350	2.69
MJCS-03AL MJCS-03BL MJCS-03PL	15 - 60	210	
MJCS-03ALL MJCS-03BLL MJCS-03PLL	5 - 40	60	
Operating Voltage / Current			
AC250V / 3A AC125V / 5A		DC24V / 20mA	

## DIMENSION

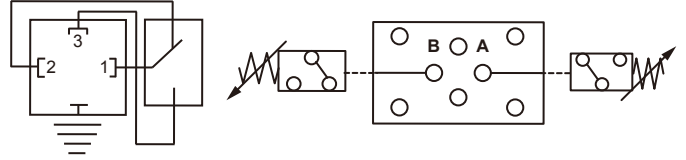
( UNIT : mm )



# MJCS-02W



## SYMBOLS



## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-02W	30 - 210	350	2.37
MJCS-02WL	15 - 60	210	
MJCS-02WLL	5 - 40	60	

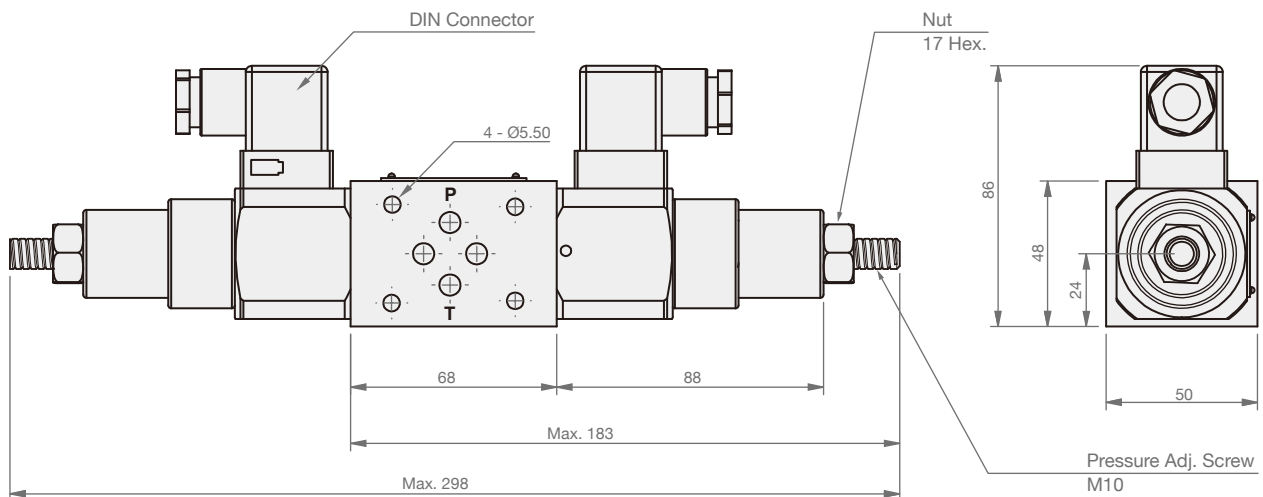
### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

DC24V / 20mA

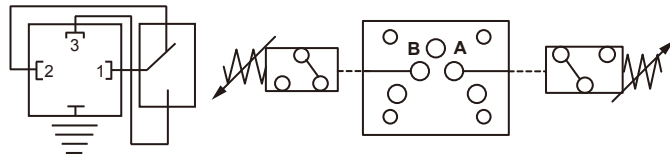
## DIMENSION

( UNIT : mm )



# MJCS-03W

## SYMBOLS



## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-03W	30 - 210	350	3.25
MJCS-03WL	15 - 60	210	
MJCS-03WLL	5 - 40	60	

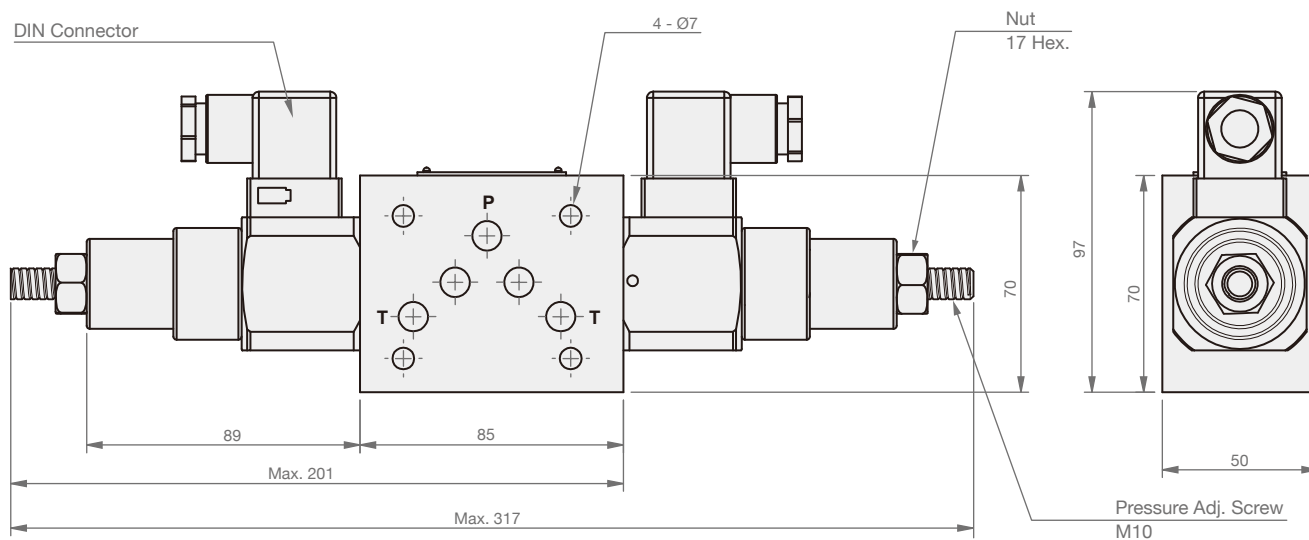
### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

DC24V / 20mA

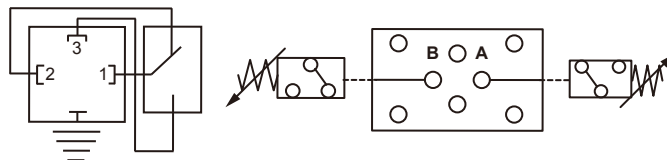
## DIMENSION

( UNIT : mm )



# MJCS-02W-SC

## SYMBOLS



## MODEL SPEC.

Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-02W-SC	30 - 210	350	2.59
MJCS-02WL-SC	15 - 60	210	
MJCS-02WLL-SC	5 - 40	60	

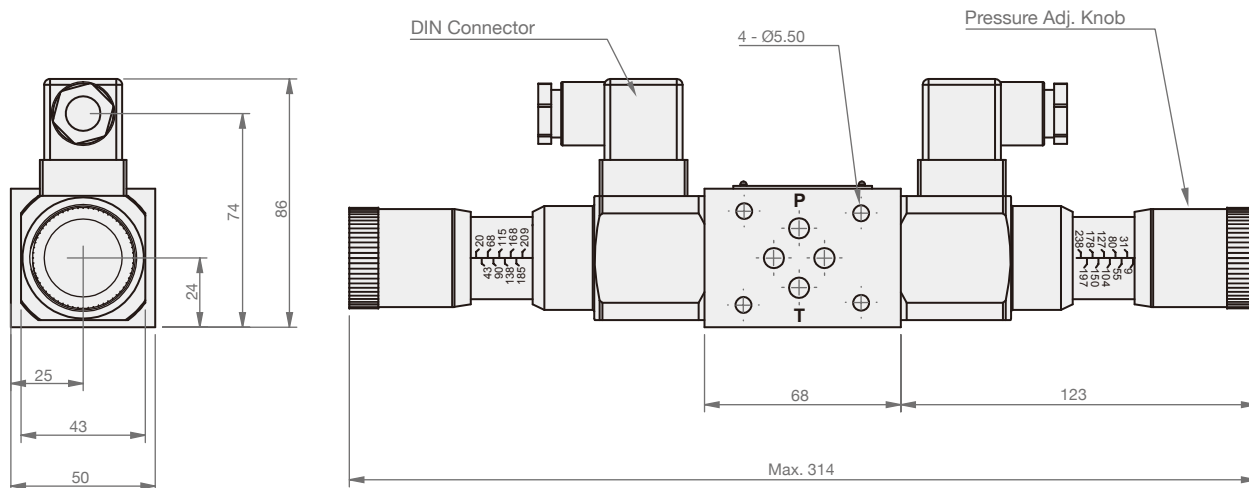
### Operating Voltage / Current

AC250V / 3A  
AC125V / 5A

DC24V / 20mA

## DIMENSION

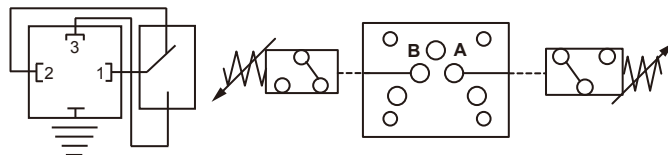
( UNIT : mm )





# MJCS-03W-SC

## SYMBOLS



## MODEL SPEC.

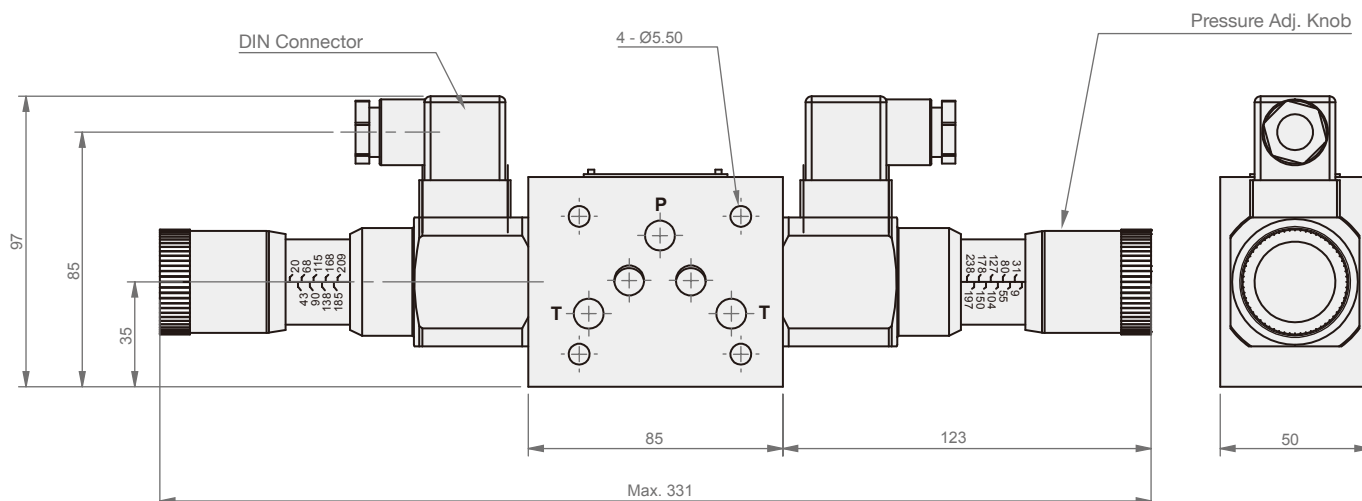
Model	Used Pressure ( kgf/cm <sup>2</sup> )	Max. Pressure ( kgf/cm <sup>2</sup> )	Weight ( kg )
MJCS-02W-SC	30 - 210	350	3.45
MJCS-02WL-SC	15 - 60	210	
MJCS-02WLL-SC	5 - 40	60	

### Operating Voltage / Current

AC250V / 3A AC125V / 5A	DC24V / 20mA
----------------------------	--------------

## DIMENSION

( UNIT : mm )



# LVM

## ORDER CODES

**LVM** - **M** - **250L** - **150** - **D**

①                      ③                      ②                      ④                      ⑤

①	Model Name	LVM	
②	Signal	S	single
		M	double
③	Total Length of The Stick (L)	200L: 200mm, 250L: 250mm 300L: 300mm, etc. *	
④	The Length from The Flange to Upper Buoy (L1)	100, 150, etc. *	
⑤	DIN Connector	D	indicator
		none	without indicator

\* The regular products total length are 200, 250, 300mm.  
If you need taylor made service, please contact us.

## MODEL SPEC.

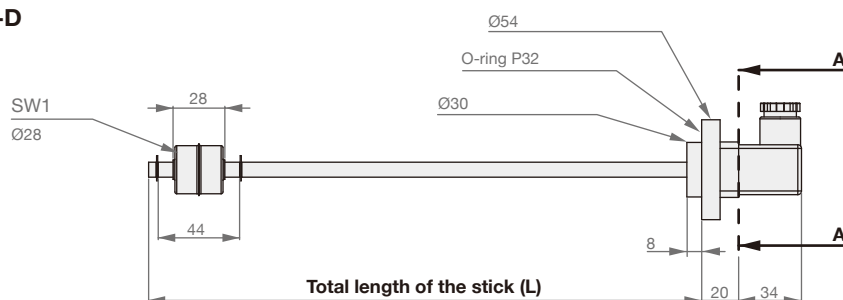
Model	LVM	LVM-D
Material	body:SUS304, flange:aluminum	
Operating Voltage	AC250V, DC24V	DC24V
Max. On-off Current	AC:0.5A, DC:0.7A	
Max. Carrying Current	2.5A	
Weight	LVM-S-250L-D: 180g, LVM-M-300L-D: 200g depends on the dimension	

Remark: The dimension of flange can be customized.

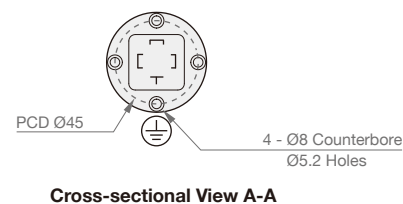
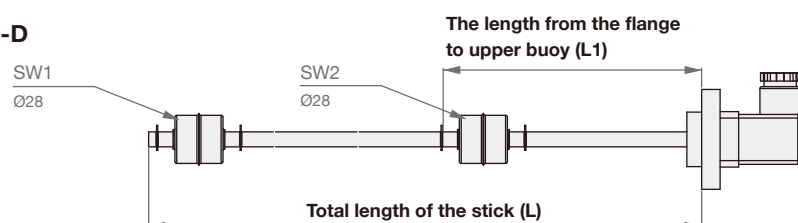
## DIMENSION

( UNIT : mm )

### ► LVM-S-D

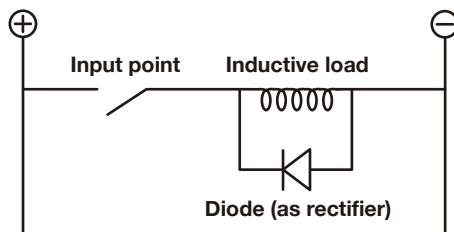


### ► LVM-M-D



## Recommendation

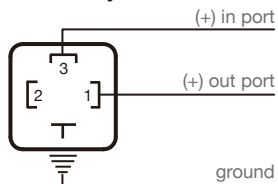
When the inductive load is working, we would recommend you installing a protective circuit in order to prolong the lifespan of the switch.



## ELECTRIC DISTRIBUTION

### ► LVM-S

Symbol



Electric distribution  
Low alarm

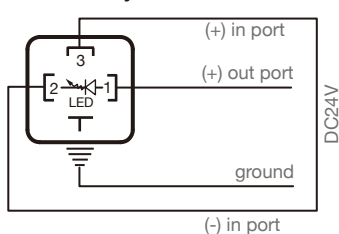


Electric distribution  
High alarm (customized)

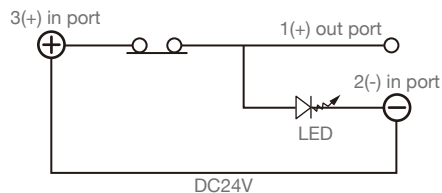


### ► LVM-S-D

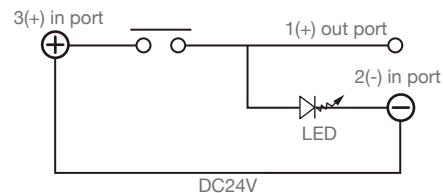
Symbol



Electric distribution  
Low alarm

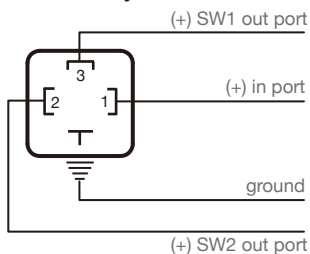


Electric distribution  
High alarm (customized)

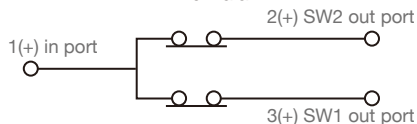


### ► LVM-M

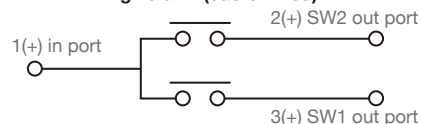
Symbol



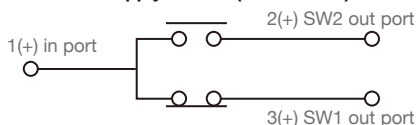
Electric distribution  
Low alarm



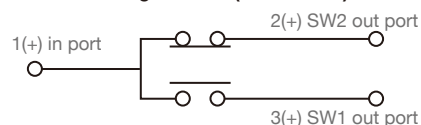
Electric distribution  
High alarm (customized)



Electric distribution  
Supply control (customized)

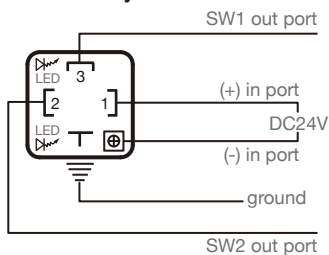


Electric distribution  
Discharge control (customized)

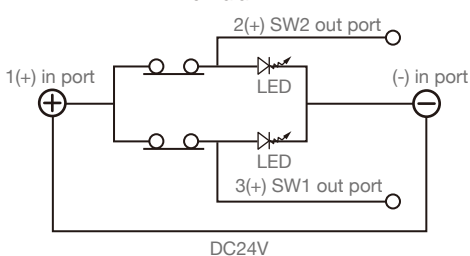


### ► LVM-M-D

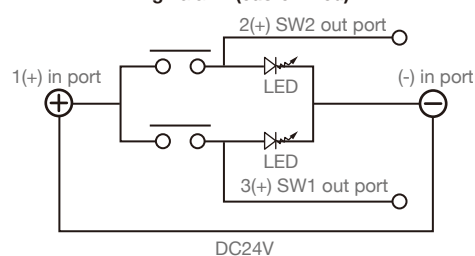
Symbol



Electric distribution  
Low alarm



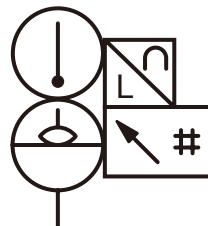
Electric distribution  
High alarm (customized)



# LVMTC



## SYMBOLS



## ORDER CODES

**LVMTC** - **M** - **300L** - **100** - **B**

①
③
②
④
⑤

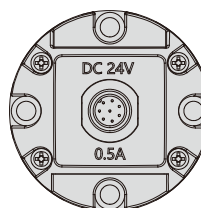
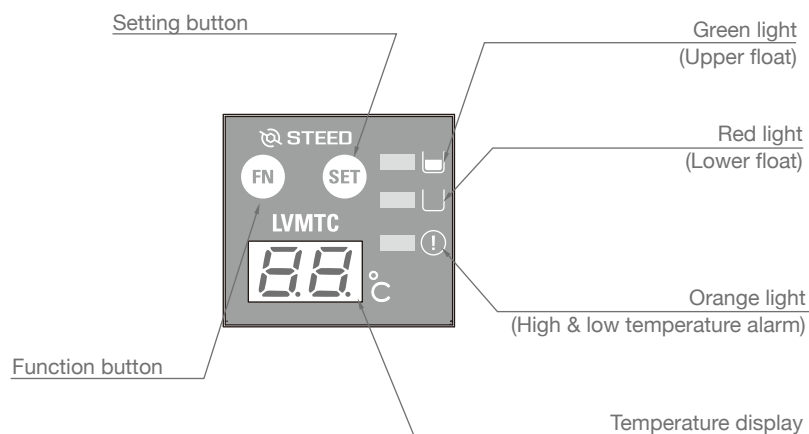
①	Model Name	LVMTC	
②	Signal	S	single
		M	double
③	Total Length of The Stick (L)	200L: 200mm, 250L: 250mm 300L: 300mm, etc. *	
④	The Length from The Flange to Upper Buoy (L1)	100, 150, etc. *	
⑤	Design Number	B	

\* The regular products total length are 200, 250, 300mm.  
If you need taylor made service, please contact us.

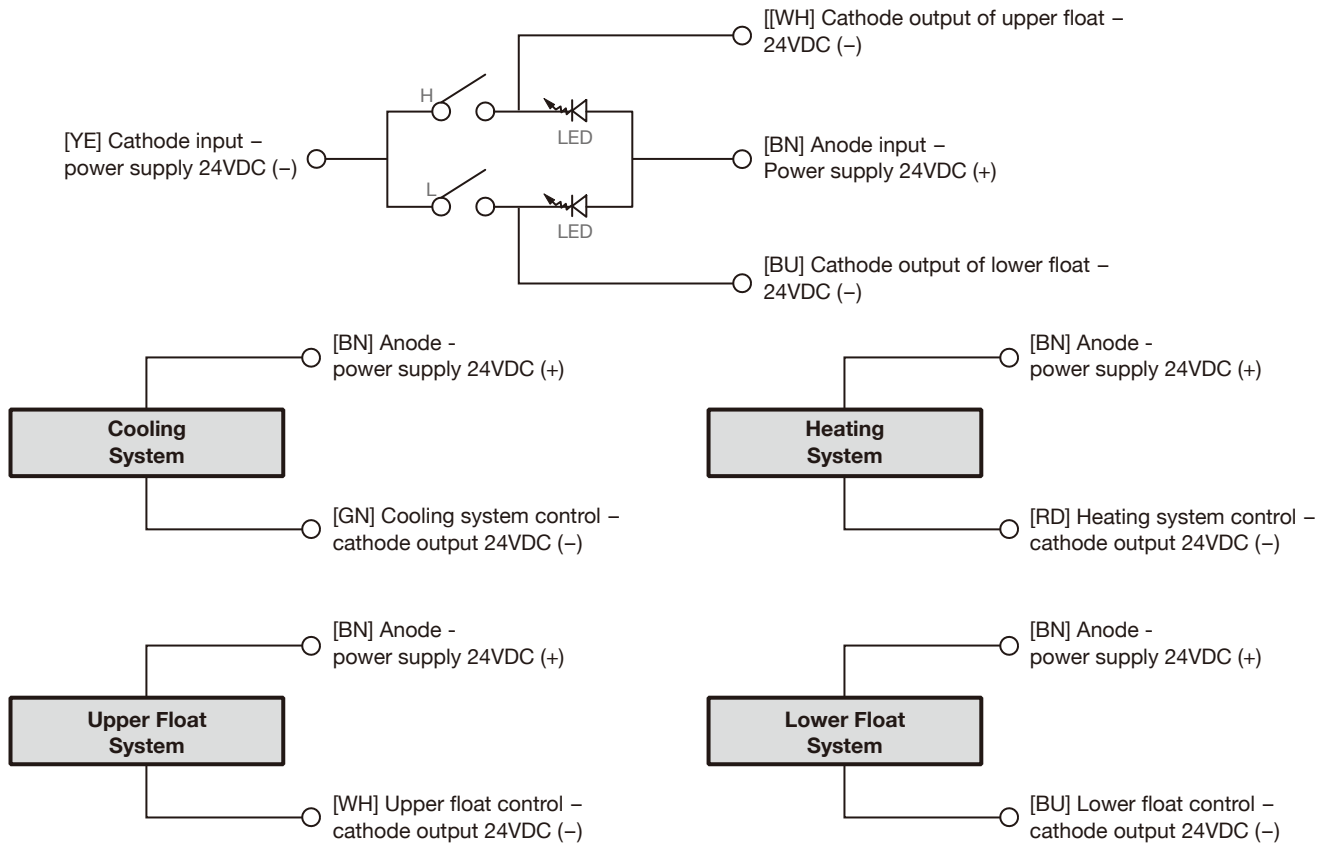
## MODEL SPEC.

Model	LVMTC
Material	case:PA66+15%GF, body:SUS304, flange:aluminum
Operating Voltage	DC24V
Max. On-off Current	0.5A
Max. Carrying Current	2.5A
Weight	LVMTC-M-300L-100-A: 245g depends on the dimension

## OPERATING PANEL & WIRING INSTRUCTION



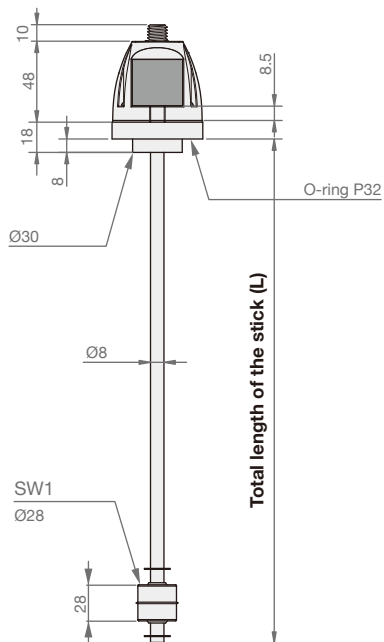
Wiring instruction	
WH	high
BN	24VDC (+)
GN	cooler
YE	24VDC (-)
GY	ground
PK	N/A
BU	low
RD	heater



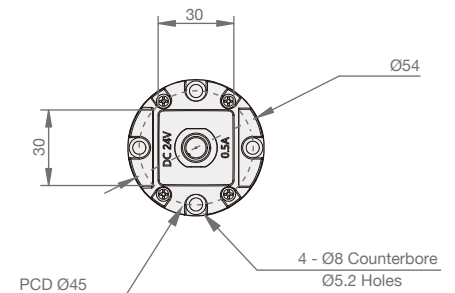
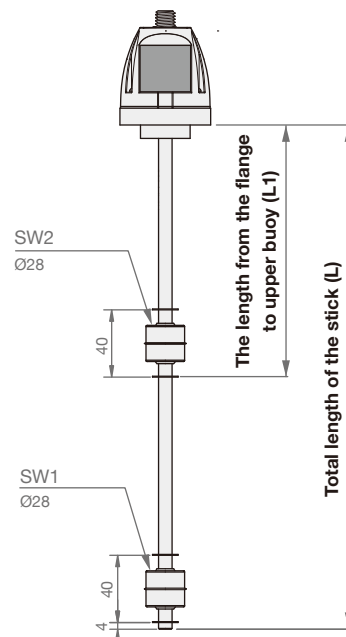
## DIMENSION

( UNIT : mm )

## ► LVMT-C-S



## ► LVMT-C-M



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