

## PSS30 series two-color display high precision pressure switch

### Features

- Product features, interfaces and installation compatibility
- Compatible with alternative market competitors
- Complete OEM solutions and supporting services
- Support special needs customization
- High precision and high reliability
- Hold set value copy
- Three steps to complete the setup, easy to operate



### product description

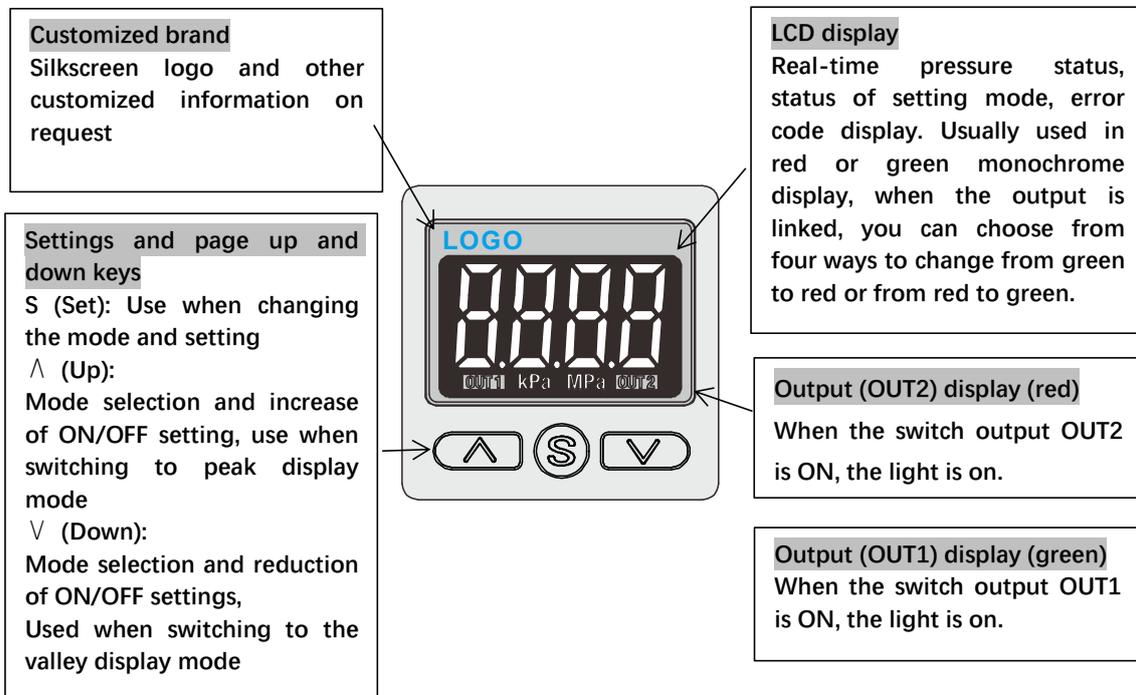
PSS30 series two-color display high-precision pressure switch has a wide range of applications, in pneumatic applications such as tooling and production equipment.

The field is used in large quantities and is an essential component for pressure monitoring and pressure control in pneumatic systems.

The PSS30 series of two-color display high-precision pressure switches are fully compatible and fully compatible with and replace the market's competing products.

Meet the pressure control and monitoring needs of pneumatic systems with better cost and good performance

### Interface description

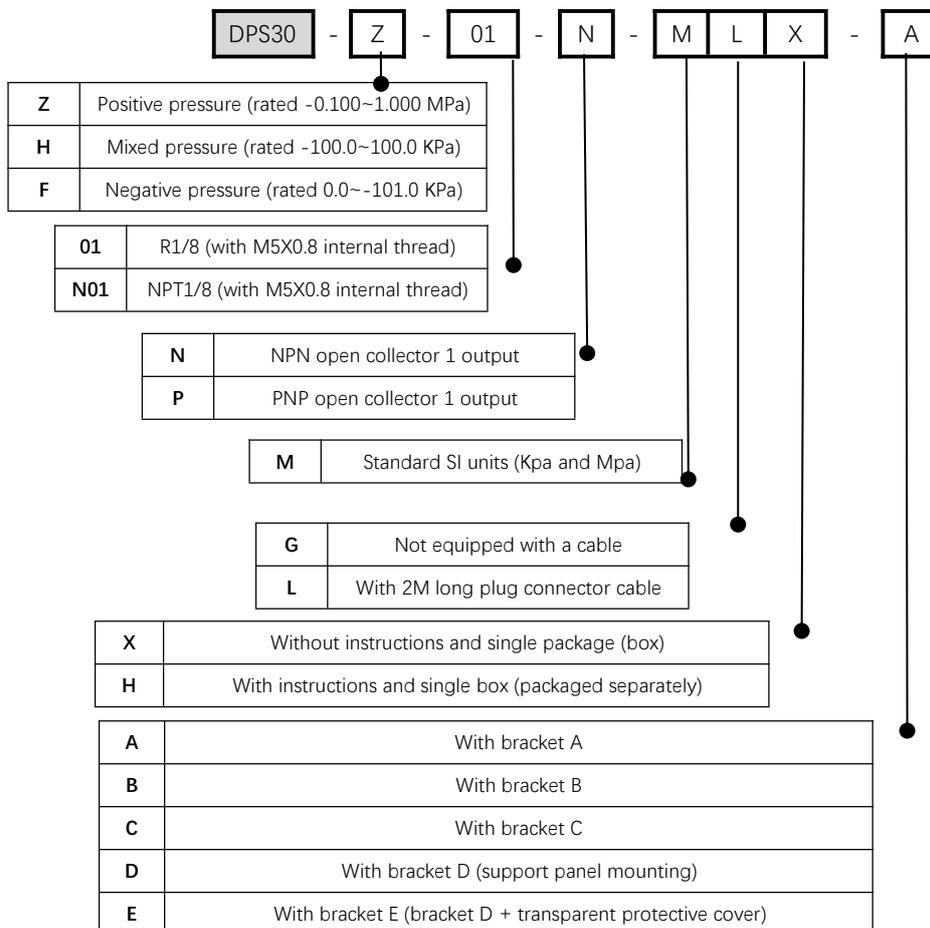


# Smartsensor

## Product Features

Copy function	Copy the set value of the primary side sensor to the slave side sensor
Automatic preset function	A function that automatically calculates a rough set value and sets it from the actual operating state
Display value micro adjustment function	Small differences in displayed values can be consistent
Peak display function	Maintains the highest pressure display value in the assay
Valley display function	Maintains the lowest pressure display value in the assay
Key lock function (optional password input)	Key operation can be locked to prevent misoperation of the operation switch
Set "0" function	Adjust the pressure display to zero when the atmosphere is open
Prevent oscillation	Adjust response time to prevent malfunction caused by sudden pressure changes
Unit switching function	Switchable display unit
Power saving mode	Reduce power consumption
Display resolution switching function	The display resolution is switched from the usual 1000 resolution to 100 resolution. Can suppress the flicker of the display
kPa<=>MPa switching function	Switchable to kPa<=>MPa

## Product number

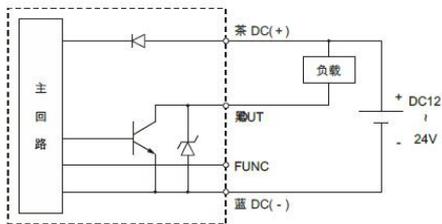


## Product specifications

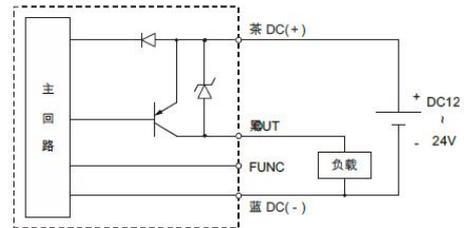
Model	PSS30-F	PSS30-H	PSS30-Z
Rated pressure range	0.0 ~ -101.0 kPa	-100.0 ~ 100.0 kPa	-0.100 ~ 1.000 MPa
Set pressure range	10.0 ~ -105.0 kPa	-105.0 ~ 105.0 kPa	-0.105 ~ 1.050 MPa
Pressure test pressure	500 kPa	500 kPa	1.5Mpa
Set the minimum unit	0.1 kPa	0.1 kPa	0.001Mpa
Suitable for fluid	Air, non-corrosive gas, non-combustible gas		
voltage	DC12 ~ 24V±10%, fluctuation (P-P) 10% or less (with reverse connection protection)		
Current consumption	40mA or less		
Switch output	NPN or PNP open collector 1 output		
Maximum applied voltage	28V (when NPN is output)		
Maximum load current	80mA		
Residual voltage	1V or less (when the load current is 80mA)		
Response time	2.5ms or less (when the oscillation prevention function is selected: 20, 100, 500, 1000, 2000ms)		
Short circuit protection	Short circuit protection		
Repeatability	±0.2%F.S. ±1digit		
Hysteresis	Hysteresis mode	Variable from 0 1)	
	Upper and lower comparison mode		
Display method	4-digit 7-segment LCD2 color display (red/green)		
Display accuracy	±0.2%F.S. ±1digit (when ambient temperature is 25 ±3°C)		
Action indicator	Lights when the switch is ON, OUT1: green, OUT2: red		
surroundings	Protection level	IP40	
	Operating temperature range	Work: 0 ~ 55 ° C, storage: -10 ~ 55 ° C (non-condensing and non-icing)	
	Humidity range	Work, save: 35 ~ 85% (non-condensing)	
	Withstand voltage	AC1000V1 minute (between charging and housing)	
	Insulation resistance	50MΩ or more (DC500V megger, between charging and housing)	
	Vibration resistant	10 ~ 150Hz full amplitude 1.5mm or 20 m/s <sup>2</sup>	
	Shock proof	(take the small one) 2 hours in XYZ direction (without power)	
Temperature characteristics	±0.2% F.S. (temperature 25 °C as a reference)		
wire	Oil-resistant vinyl rubber insulated cable 3 core Φ 3.5, 2m 4 core conductor cross-sectional area 0.15mm <sup>2</sup> (AWG26), insulator outer diameter 1.0mm		

When the applied pressure changes around the set value, if the hysteresis is not set above the fluctuation range, the oscillation will occur.

## Product specifications



Max.28V, 80mA  
(残留电压 1V 以下)

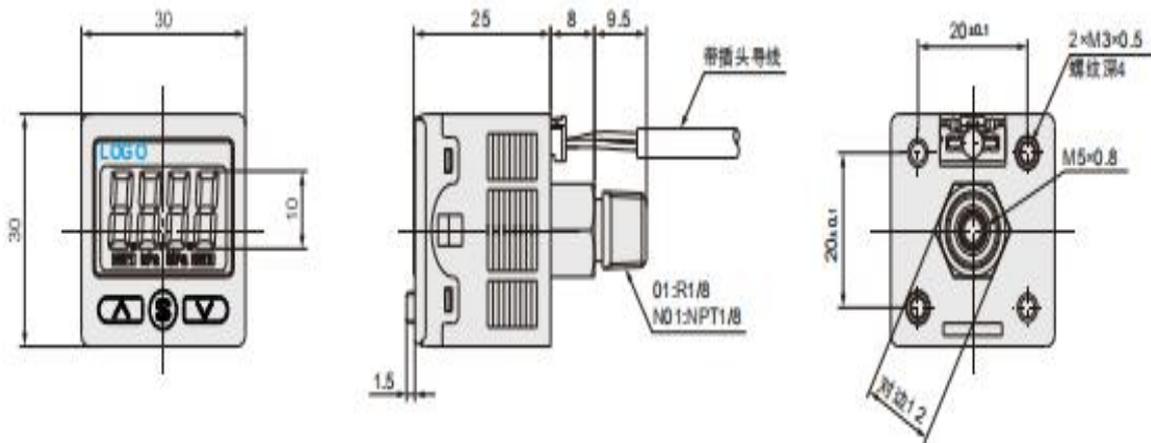


Max.28V, 80mA  
(残留电压 1V 以下)

(1) NPN (1 output)

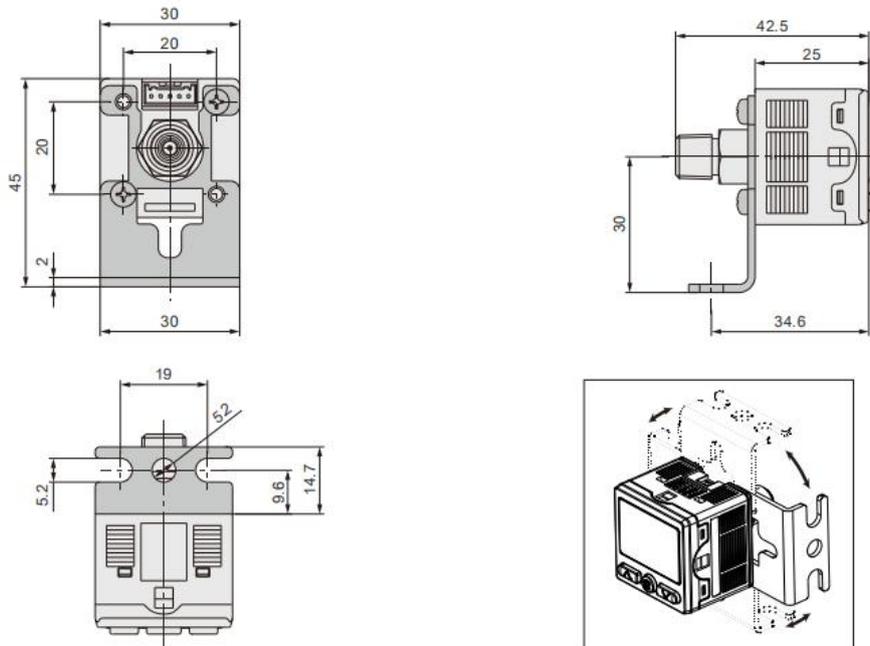
(2) PNP (1 output)

## Product dimensions



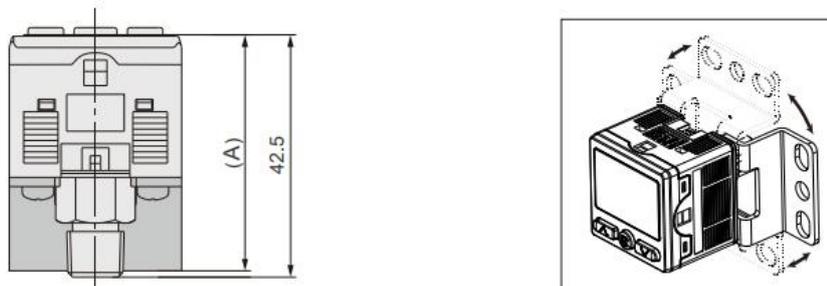
## Bracket mounting scheme

(1) A-bracket mounting scheme (optional matching A-bracket)



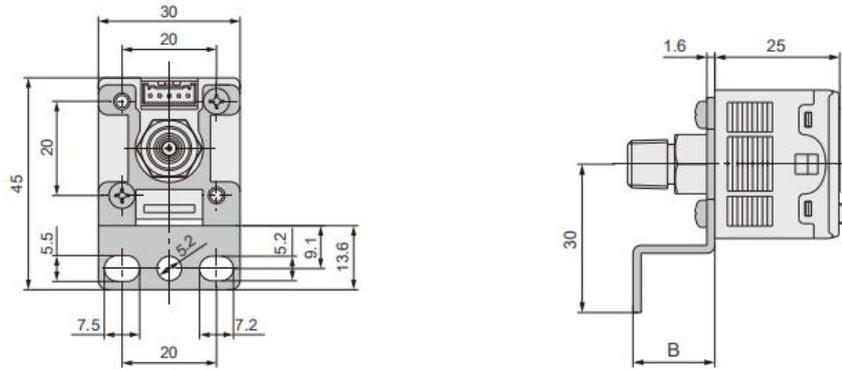
The direction of the bracket can be adjusted according to actual needs

(2) B-bracket mounting scheme (optional matching B-bracket (A=41.4mm, B=16.4mm))



The direction of the bracket can be adjusted according to actual needs

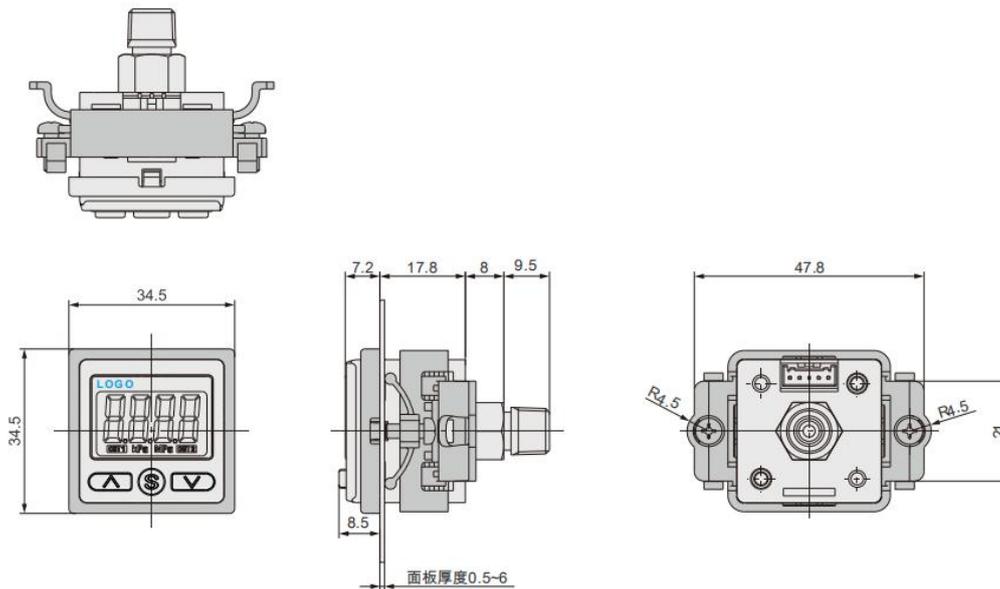
## (3) C-bracket mounting scheme (optional matching C-bracket (A=53mm, B=28mm))



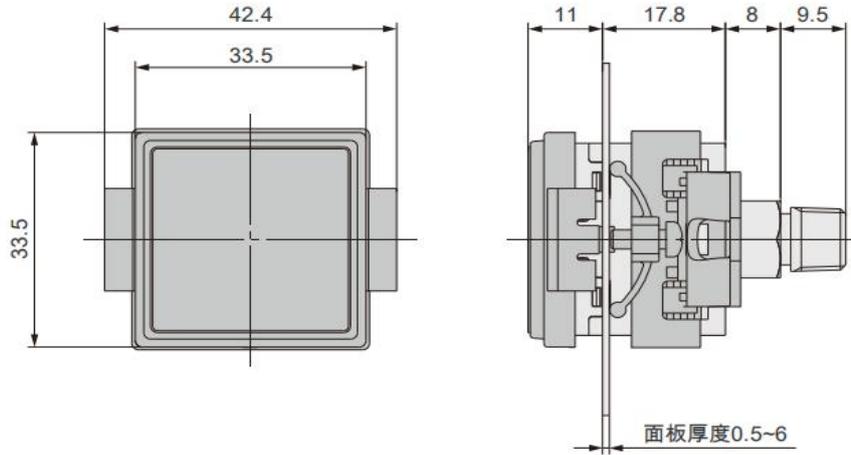
The direction of the bracket can be adjusted according to actual needs

## Panel mounting solution

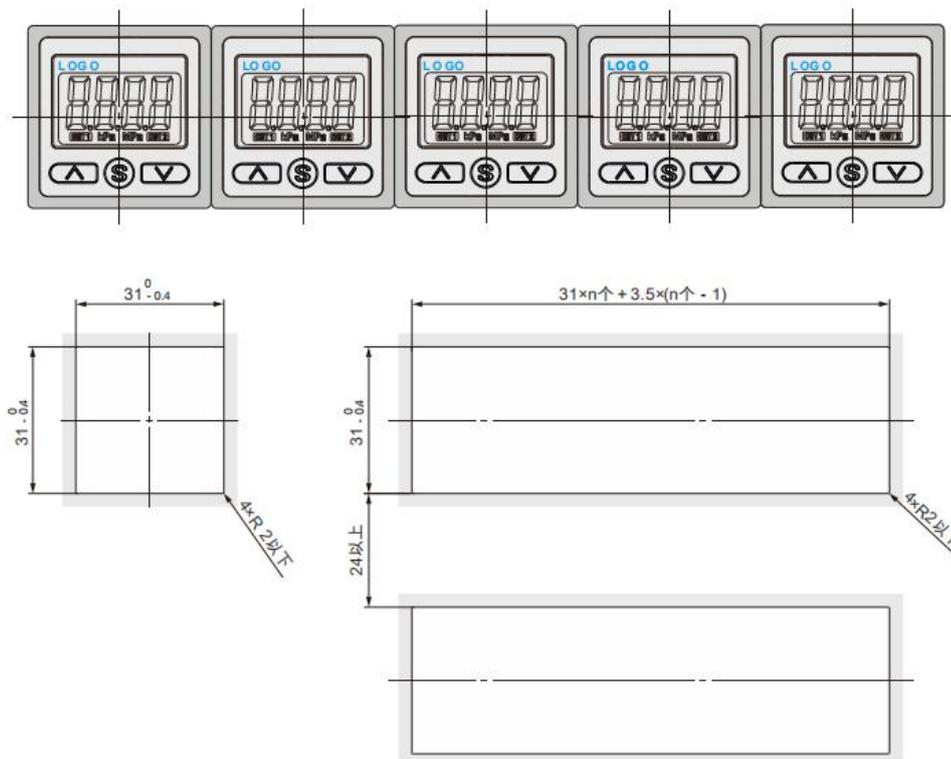
### (1) Panel mounting scheme (optional matching D-type panel bracket)



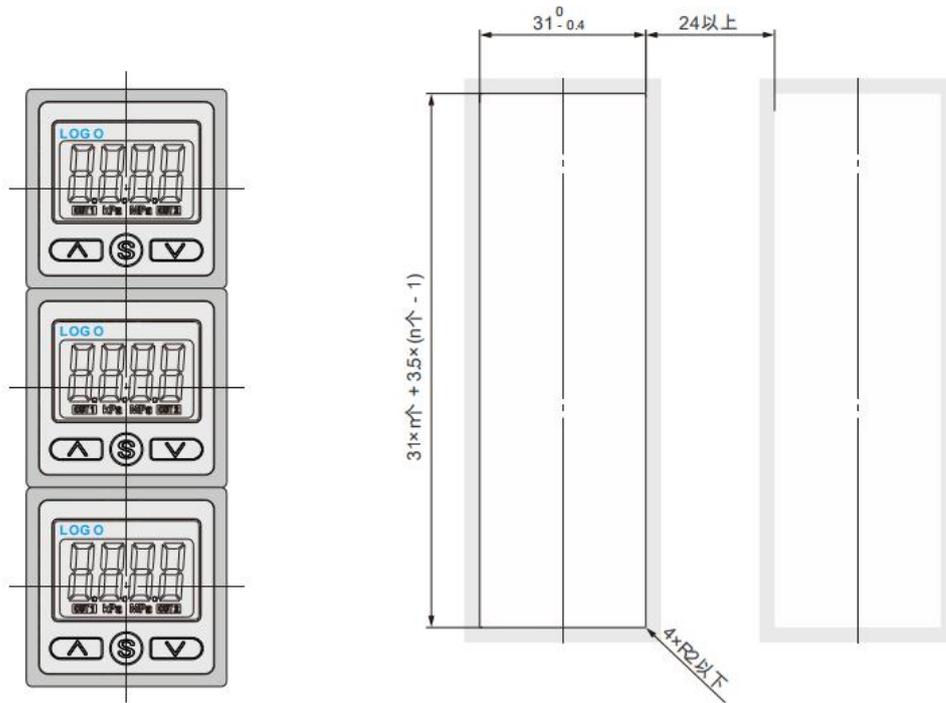
(2) Panel mounting + transparent protective cover solution (optional matching E-type accessory (bracket + transparent protective cover))



(3) Side-by-side installation plan of the panel (with panel opening size)

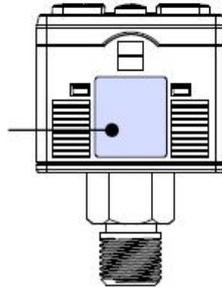


## (4) Panel side-by-side installation scheme (with panel opening size)

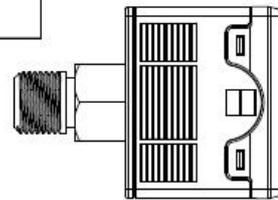
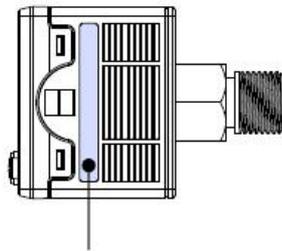


## Customizable solution (screen printing and stamping area description)

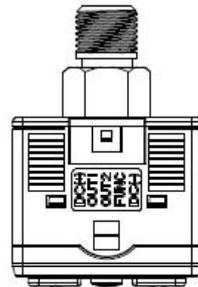
(1) Molded symbol area 1, can be imprinted symbol identification (standard type is blank)



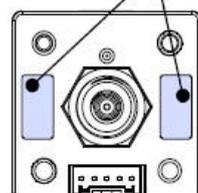
(2) Silk screen printing area, screen printing custom brand and other printed information (standard type is blank)



(3) Molded symbol area 2, can be branded, etc. (standard type is blank)



(4) Molded symbol area 3, can be printed on the origin of the product. Customized content (standard is blank)



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