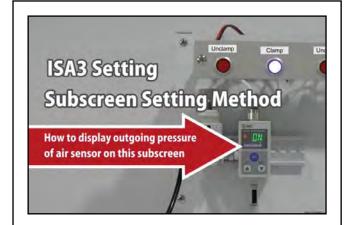


Air Sensor ISA3 Setting Method for 1-Port Sensing Clamp Series



How to Display Outgoing Pressure

> WATCH VIDEO

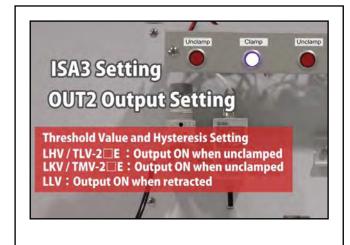
Click to watch the video on YOUTUBE.



OUT 1 Setting Method

> WATCH VIDEO

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OUT 2 Setting Method

> WATCH VIDEO

Click to watch the video on YOUTUBE.



Scan the QR code to watch the video with a smartphone and other devices.



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[●] IF THERE IS ANY UNCLEAR POINT IN THIS LEAFLET, PLEASE CONTACT US.

SPECIFICATIONS IN THIS LEAFLET ARE SUBJECT TO CHANGE WITHOUT NOTICE

1-Port Sensing Swing Clamp model LHV / TLV-2 E **Link Clamp** model LKV / TMV-2 E

model LLV

Air Sensor Setting

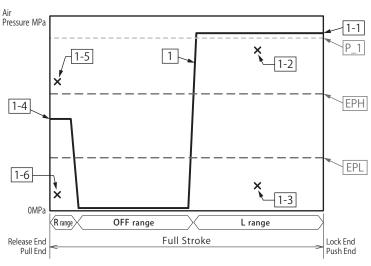
% Please use an SMC-made Digital Seating Switch (model: ISA3-G \square A, ISA3-G \square B) for an air sensor.

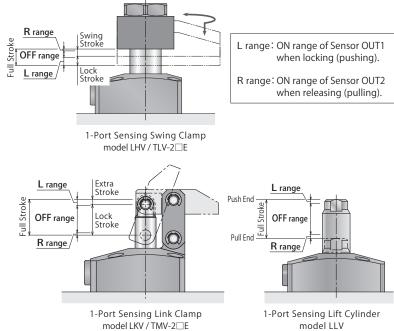
Air Sensing Chart

Lift Cylinder

The followings are a sensing chart image showing the relationship between clamp/cylinder operation and sensor outgoing side circuit pressure, and threshold value setting reference.

* Refer to the product catalog for further information of operating positions.





Symbol	Description	Note			
1	It shows pressure performance curve when clamps/cylinders operate normally.				
1-1	Pressure when all clamps/cylinders are locked normally. It becomes the same as supply pressure.				
1-2	[Error] Pressure in case a clamp/cylinder is stopped in released state when locking for some cause.	Recommend to check with an actual circuit.			
1-3	[Error] Pressure in case a clamp/cylinder is stopped in the middle of swing action when locking for some cause.				
1-4	Pressure when all clamps/cylinders are released normally.				
1-5	[Error] Pressure in case a clamp/cylinder is stopped in locked state when releasing for some cause.				
1-6	[Error] Pressure in case a clamp is stopped in the middle of swing action when releasing for some cause.				
P_1	It shows threshold value of ON signal output of OUT1.	Set threshold value to 10.			
EPH	It shows the upper limit value of the ON signal output range of OUT2.	Refer to the standard setting value list.			
	It should be set higher than 1-4 and lower than 1-5.				
EPL	It shows the lower limit value of ON signal output range of OUT2.	(Recommend to set it by checking an actual			
	It should be set higher than 1-3 and lower than 1-4.	circuit pressure.)			

^{*} When using Lift Cylinder(s), LOCK = PUSH and RELEASE = PULL in the description above.

Sensor Threshold Value Setting List (Standard)

Refer to the following values and set the threshold value depending on the model, the number of connected clamps and air pressure. (These standard values may not be applicable to actual conditions. Please set the value after measuring an actual circuit pressure.)

Applicable Model			LHV • LKV • TLV-2□E • TMV-2□E			LLV	
Air Pressure	Setting Point		No. of Connected Clamps			No. of Connected Cylinders	
[MPa]			2	3	4	1	2
	OUT1		10			10	
0.200	OUT2	EPH [kPa]	187	160	129	195	170
		EPL [kPa]	95	80	65	100	80
	OUT1		10			10	
0.150	OUT2	EPH [kPa]	139	118	92	145	125
		EPL [kPa]	70	60	50	75	60
	OUT1		10			10	
0.100	OUT2	EPH [kPa]	91	75		95	80
	0012	EPL [kPa]	45	40		50	35

- Along with threshold value setting, hysteresis setting is needed. It should be set as [0] for both OUT 1 and 2.
- Higher air pressure enables stable detection. It is recommended to set air pressure as high as possible.
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