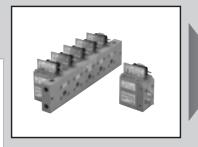
Part1

Discontinue

Fine level switch

KML50 Series

Level detector that boasts detection precision of ±1 mm and excellent installability



Specifications

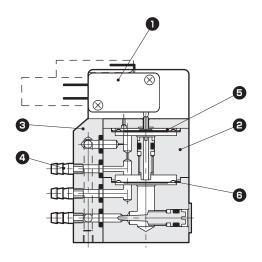
Item		KML50-0A-A	KML50-1 B - A C - B	KML50-2BA	
Working f	luid		Air, N ₂		
Working p	ressure kPa	15 to 35	10 to 30		
Fluid temp	perature °C		5 to 60		
Ambient ten	nperature °C	15 to 40	5 to	60	
Proof pres	ssure kPa		50		
Detection water level mm		8 to 100	1 to 600		
•	A type	3 A 125 V / 250 VAC resistance load (micro switch)			
Contact capacity	B type	0.25 A 100 VDC resistance load (reed switch)			
Switching	Switching point	8 to 12 (*1)	8 to 12 (*1)	1 to 3 (*1)	
water level	Hysteresis	5 or less (*1)	2 or less (*1)	2 or less (*1)	
Repeatab	oility mm		±1		
Response time ms		200 or less (detection flo	200 or less (detection flow rate 75cm³/min (ANR), detection tube I.D. ø4 mm, length 2 m)		
Detection tube I.D. ø mm		4			
Detection tube length m		Within 2			
Air consumption cm ³ /min(ANR)		7	750 or less (at supply pressure of 20 kPa)		
\\\aight	lea	0.19	KML50-1B-* 0.27	KML50-2B-* 0.27	
Weight	kg	kg 0.19	KML50-1C-* 0.19	KML50-2C-* 0.19	

- *1: The above specifications are values obtained at supply pressure 20 kPa (ambient temperature: 24 ±2°C). Be sure to use supply pressure with a high degree of cleanliness. Value obtained with measured water.
- *2: Micro switch is C contact and reed switch is A contact.

Safety precautions

- 1 Install the switch at a position higher than the liquid level to be detected.
- 2 Use pneumatic pressure with dust and oil filtered out through a submicron filter and micro alescer.
- 3 Use a low-pressure regulator with oil-free processing.
- Water or a fluid of similar viscosity is used to adjust before shipping.
- 5 Use piping with a ø4 mm bore for detection. Do not install anything that will create resistance, such as a throttle, in the middle of the piping.
- 6 Eight P/S ports are provided on the manifold. Perform masking for piping ports that are not used.
- Detection in sealed liquid tanks and similar liquid tanks is not possible.
- 8 Applying a pressure of 50 kPa or more to the PS port may cause damage. Gradually raise the pressure from 0.
- 9 With the switch section facing up, install at a position higher than the liquid level.
- 10 The needle is adjusted before shipping and should not be readjusted.
- 11 If the EXH port is blocked, excess pressure may be applied inside the product which may cause damage, so be sure to leave the EXH port open.
- 12 Do not stop supplying the supply gas if corrosive gas may enter from the detection tube. The switch protects the detection part from corrosive gas by discharging the detection gas from the detection tube.
- This product cannot be used in an atmosphere where chemical liquid is present.

Internal structure and parts list



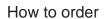
Part	Part name	Material (by material combination)		
number	Fait Haille	Α	В	С
1	Micro switch		-	
2	Body	PVC	A + 6063	PVC
3	Manifold	PVC	A + 6063	PVC
4	Nipple	SUS304		
5	Diaphragm A		U	
6	Diaphragm B	PTFE	U	U

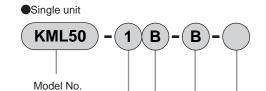


Discontinue

KML50 Series

How to order





A Sensing classification

B Material combination

CSwitch

Option

Code	Description		
A Sensing classification	Switching point	Hysteresis	
0 (*1)	8 to 12	5	
1 (*1)	8 to 12	2	
2 (*1)	1 to 3	2	

B Material combination	Body	Diaphragm
Α	PVC	PTFE
В	A + 6063	U (Urethane)
С	PVC	U (Urethane)
O O cuitada		

© Switch	
Α	Micro switch (C contact)
В	Reed switch (A contact)
Ontion	

D Option

Blank Single unit

Single unit for manifold

●Manifold			
MKML) - (1) B	B)-(B)-(4)-(2	2)
Model No.			
A Sensing	classification		
Œ	Material combination		

CSwitch

	Code Descri		ption	
_	A Sensing classification	Switching point	Hysteresis	
	0 (*1)	8 to 12	5	
	1 (*1)	8 to 12	2	
	2 (*1)	1 to 3	2	

B Material combination	Body	Diaphragm
Α	PVC	PTFE
В	A + 6063	U (Urethane)
С	PVC	U (Urethane)

1 1	© Switch	
ch 	Α	Micro switch (C contact)
	В	Reed switch (A contact)
Number of sub-plates	Number of sub-	-plates
Privatibel of Sub-plates	4	1 stations

Number of sub-plates		-plates
ales	1	1 stations
	2	2 stations
	3	3 stations
	4	4 stations
	5	5 stations
	<u> </u>	

		5	5 stations
G Mag	sking count	Masking count	
Vivias	sking count	0	No masking
		1	1 mounted
		2	2 mounted
		3	3 mounted
		4	4 mounted

	Α	
4	И	

Precautions for model No. selection

*1: When Item (A) is 0, only A is available for Item (B). When Item (A) is 1 or 2, only B/C are available for Item (B).

CKD

Part3R Part2 Part

Liquid N

Metal-free characteristics

Large bore Polyvinyl drainage Part3RN

art2 Liquid supply

Liquid supply Metal-free size Single Single Size Single

Single unit | Air operated | Pilot | Manual |
Drip prevention valve | Regulator

Electric Manual Fine flow rate

Flow rate adjusting valve

Fine level switch

products

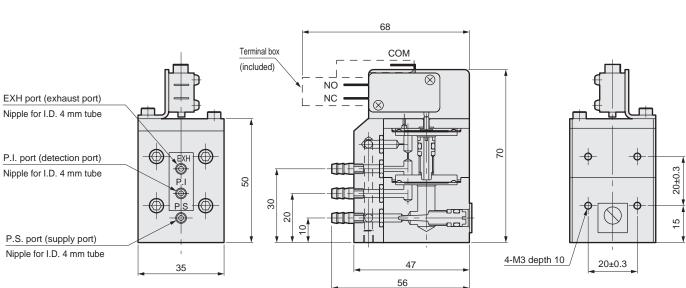
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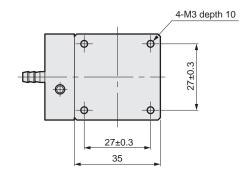
KML50 Series

Part3R Part2 Part1 Metal-free supply Air operated valve Large bore Flow size characteristics Polyvinyl chloride drainage Part2 Metal-free supply Single unit size Drip prevention valve Pilot Regulator Manual Flow rate adjusting valve Manual Manual Fine flow rate

Dimensions

● KML50-0A-A





Fine leve switch

products

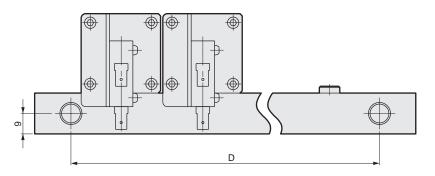
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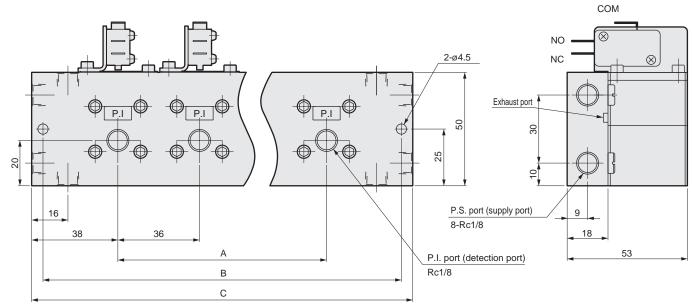
KML50 Series

Dimensions

Dimensions

● MKML-0A-A-*-* (Manifold)





Number of sub-plates	Α	В	С	D
1	-	66	76	44
2	36	102	112	80
3	72	138	148	116
4	108	174	184	152
5	144	210	220	188

Part3R Part2 Air operated valve Metal-free characteristics Large bore Polyvinyl size chloride drainage Part3RN Manual valve Metal-free Large bore size Single unit Air operated Integrated Drip prevention valve Pilot Regulator Manual Electric Flow rate adjusting valve Manual Manual Fine flow rate

> Fine level switch

Related