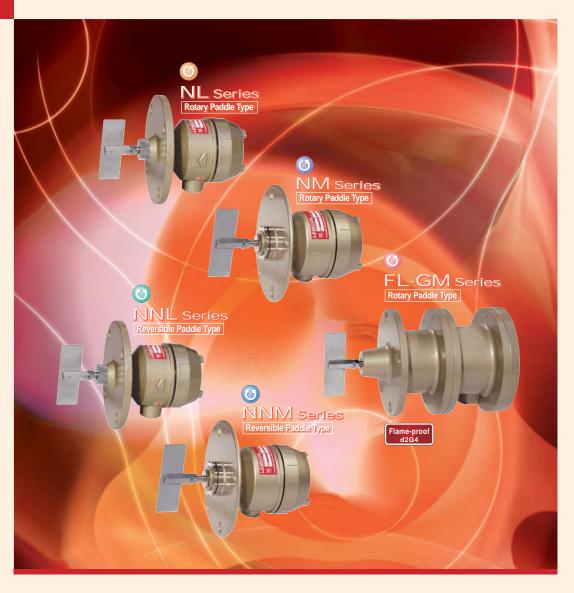
ROTARY PADDLE TYPE LEVEL SWITCH

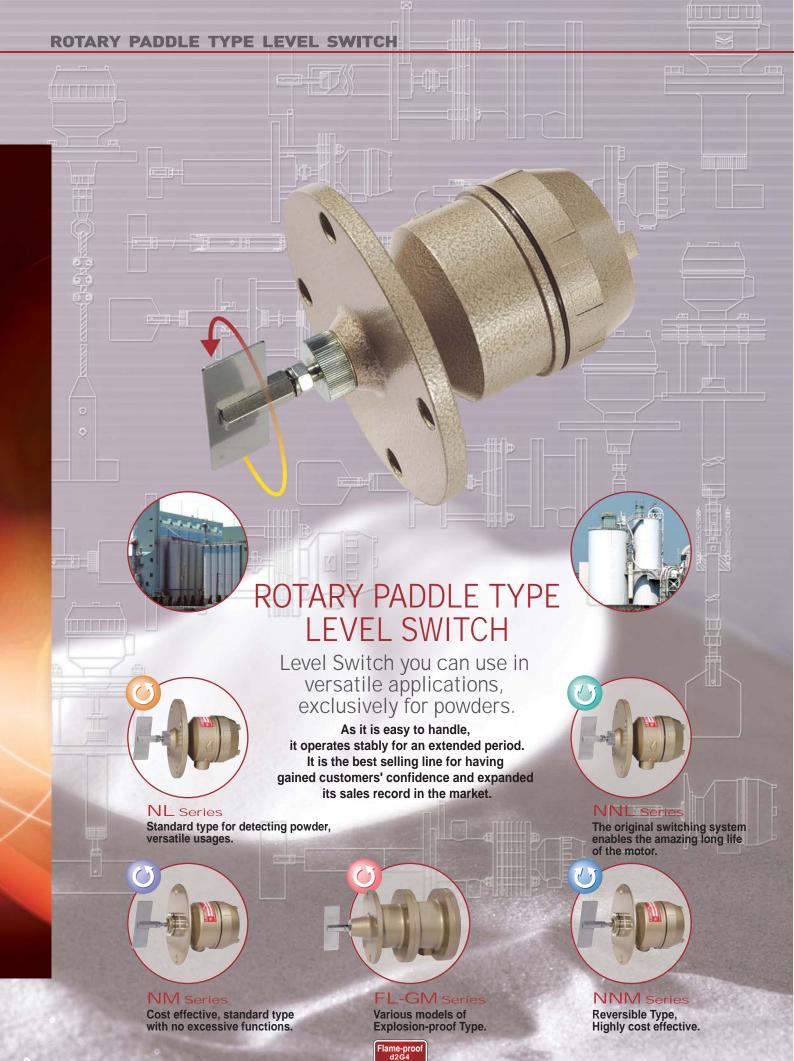
NL/NM/FL-GM/NNL/NNM SERIES



Uncomparable models developed based on our abundant technology experiences and long-term achievements in the market. A variety of products are lined up.

We assure that you will be able to find an optimum model



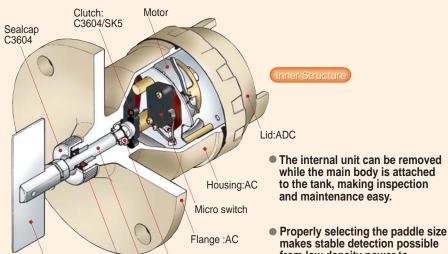


A standard model of rotary type level switch that continously keeps evolving.

Covering a wide range of applications with various models.

Rotary Paddle Type NL/NM Series

- You may easily adjust torque when taking off the Lid.
- Oil seal and thrust Teflon packing prevent powder from entering the shaft.
- The clutch system helps prevent the motor from being broken even when the paddle is overloaded.



Oilseal:NBR

Bearing Bearing makes stable detection possible from low density power to granular material without adjusting the sensitivity.

■ Principle Of Operation

A rotating paddle, being loaded by materials in a tank, activates a limit switch and brings contact output and motor rotation to a halt at the same time. With no load by materials, the motor resumes rotation. A clutch system prevents the motor from breaking by letting out excessive load and shock when the paddle is overloaded or suffers a strong shock.

■ Standard Specification

Power Source: 100-110VAC or 200-220VAC 50/60Hz

Power Consumption: 4W

Contact Capacity: 250VAC 5A Resistance Load

Rate of Rotation: 1r.p.m/50Hz Allowable Temperature: Environment 0-50°C

(Specs for cold location is available)

In tank 0-50°C

Heat resistant type NL series Max250°C

NM series Max180°C

Paddle:SUS304

Withstand Voltage: 1500VAC one minute for

in between terminal and housing

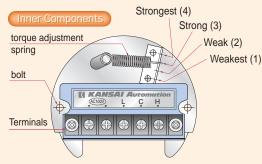
Detection Torque: 1470-1764N · m×10-4

Allowable Pressure: 19.6kPa

Color : Gold

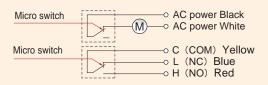
Process Connection: G1B or Equivalent to JIS 5K 65A

Enclosure Rating: IP65



*Default setting: Weak (2)

Wiring Diagram



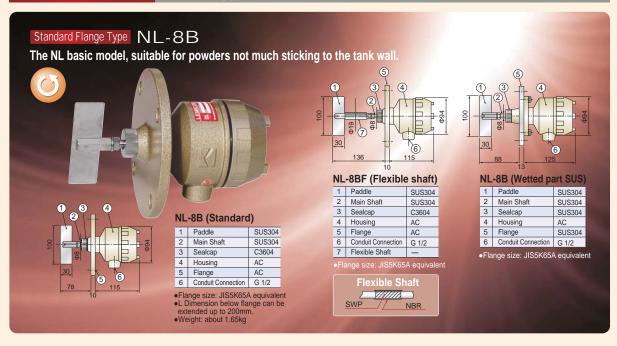
* Wiring of NL-8DA is determined by the color of the cable as shown above.



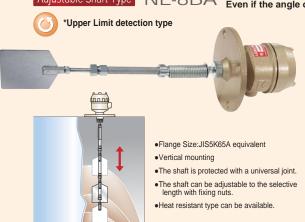


The basic model of rotary type level switch that can be applied to all conditions

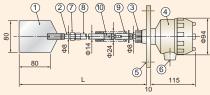
Wetted parts can be made of SUS304 or SUS316



Adjustable Shaft Type NL-8BA The shaft can be adjustable to the selective length with fixing nuts. Even if the angle of repose is unknown, it can be optimally adjusted on site.



NL-8BA (Reinforcing spring)



1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Lock Nut	C3604
8	Protective Tube	SGP
9	Spring	SWP
10	Universal Joint	SS400

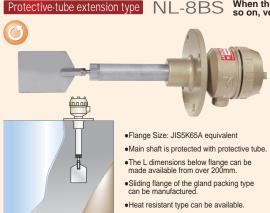
•Weight: about 2.2kg (Max.L=1000)

NL-8BA (Reinforcing rubber) ⑤ 6

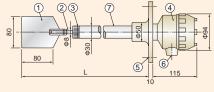
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Spring	NBR
′	Universal Joint	SS400
8	Protective Tube	SGP

Weight: about 2.2kg (Max.L=1000)

When the angle of repose is greater, there is much build-up on the tank-wall and so on, vertical, horizontal and diagonal mounting can be selected.



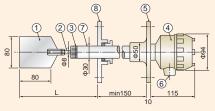
NL-8BS (Protective tube extension)



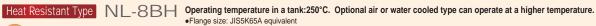
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

•Weight: about 2.0kg (L=200)

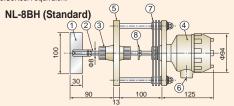
NL-8BS (L is adjustable by sliding flange)



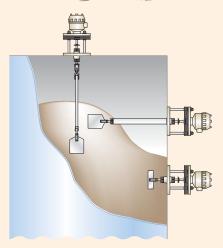
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304
8	Sliding Flange	SS400

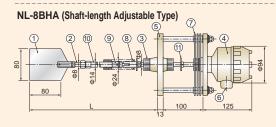




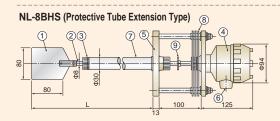


1	Paddle	SUS304	
2	Main Shaft	SUS304	
3	Sealcap	C3604	
4	Housing	AC	
5	Flange	SS400	
6	Conduit Connection	G 1/2	
7	Radiation Fin	ALP	
8 Rotation Check Board AC			
Weight: about 4.4kg			





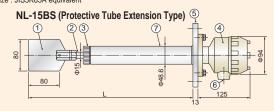
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Radiation Fin	ALP
8	Spring	SWP
9	Universal Joint	SS400
10	Protective Tube	SGP
11	Rotation Check Board	AC



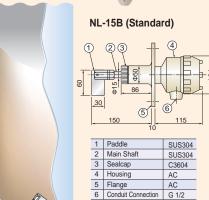
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304
8	Radiation Fin	ALP
9	Rotation Check Board	AC

Withstand Load Type | N L - 1 5 B | Lower limit detection of a large tank. Level switch of withstanding load type mounted in a lower part of a silo. Both heat-resistant and protective tube extension types can be manufactured. • Flange size : JIS5K65A equivalent

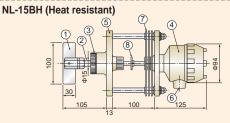




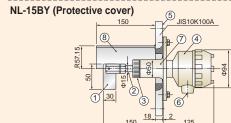
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304



•Weight: about 2.2kg



1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Radiation Fin	ALP
8	Rotation Check Board	AC.

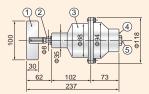


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Boss	AC
8	Protective Cover	SGP

Inner Tank Hanging Type NL-8DA Suspended in a tank with 40A pipe. It can be used under varied conditions.







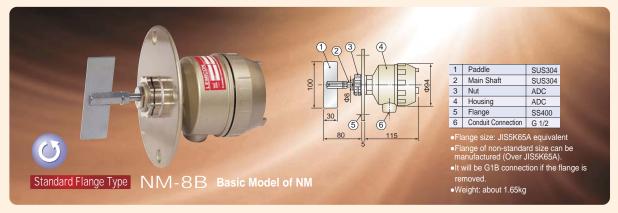
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Housing	AC
4	Mounting Screw	G1-1/2
5	Conduit Connection	G 1/2

- •Suspend it in a tank with 40A pipe. •Advise us of the length of lead cable. (Standard 350mm)
- Weight: about 1.3kg



Complete standardization of parts makes it an affordable price.

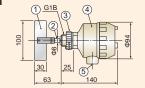
Wetted parts can be made of SUS304 or SUS316



Screwed Joint Type NIM-SC Small Hopper Level Switch







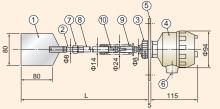
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Nut	ADC
4	Housing	ADC
5	Conduit Connection	G 1/2

- Mounting G1B
 Weight: about 1.1kg

- *Make the tank diameter Φ34 in mounting NM-SC.
 *The outside diameter of the crown nut is Φ48

Adjustable Shaft Type NM-8BA Vertical Mounting



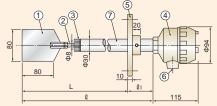


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Nut	ADC
4	Housing	ADC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Lock Nut	C3604
8	Protective Tube	SGP
9	Spring	SWP
10	Universal Joint	SS400

- •Flange size: JIS5K65A equivalent
- •Heat resistant type can be available. •Weight: about 2.0kg (L=Max.500)

Protective-tube extension type NM-8BS Adjust the L dimensions by sliding flange





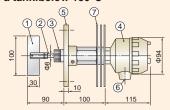
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

- •The L dimensions below the flange • Heat resistant type can be available. • Weight: about 2.2kg (L=200)

Heat Resistant Type NM-8BH Operating temperature in a tank:below 180°C





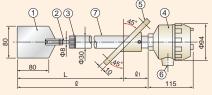


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Radiation Fin	ALP
	3 4 5 6	2 Main Shaft 3 Sealcap 4 Housing 5 Flange 6 Conduit Connection

- •Flange size: JIS5K65A equivalent
 •The L dimensions below the flange
- can be extended up to 200mm.
- Both Shaft-length adjustable and protective tube extension types can be available.
 Weight: about 2.7kg

Diagonal Flange Type NN-8BN(S) Best to mount at the conical area directly.



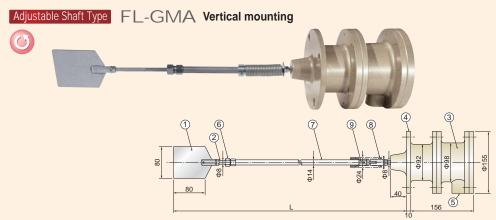


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

- Flange size: JIS5K65A equivalent
- •The standard angle is 45°
 *It is possible to specify the angle.
 •Weight: about 2.2kg (L=200)



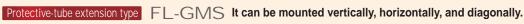




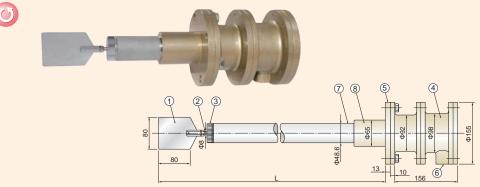


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Housing	AC
4	Flange	AC
5	Conduit Connection	G 1/2
6	Lock Nut	C3604
7	Protective Tube	SGP
8	Spring	SWP
9	Universal Joint	SS400

- •Flange size: JIS5K65A equivalent •Heat resistant type can be available. •Weight: about 4.5kg (L=Max500)





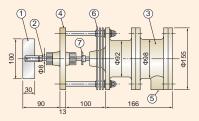


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304
8	Boss	SS400

- •Flange size: JIS5K65A equivalent
- Heat resistant type can be available.
 The L dimensions below flange can be made from over 200mm.









1	Paddle	SUS304
2	Main Shaft	SUS304
3	Housing	AC
4	Flange	SS400
5	Conduit Connection	G 1/2
6	Radiation Fin	ALP
7	Rotation Check Board	AC

- •Flange size: JIS5K65A equivalent
- Heat resistant type can be available.
 The L dimensions below flange can be extended up to 200mm.

 Det Charles and type can be available.
- Both Shaft-length adjustable and protective tube extension types can be available.

The mechanical consumable parts inside the motor are removed by a unique mechanism to achieve long life and stability that cannot be achieved with a standard rotary level switch!

Reversible Paddle Type

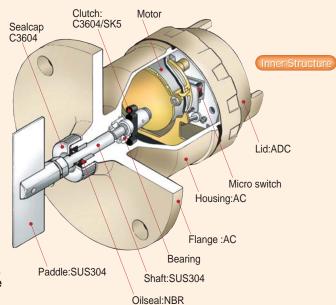
NNL/NNM Series

Highly effective in the processes where it frequently switches ON/OFF.

Materials is always flowing in the tank.

Because of small tank the powder is charged and discharged very fast.

These processes frequently require the level switch's detecting operations, thus extremely shortening the motor's life. These series, however, secure the long life of the motor unit.



■ Principle Of Operation

Utilizing the switching system we developed based on our experiences and accomplishments in the market has offered a highly stable and reliable detection regardless of its rotating paddle direction.

A rotating paddle being loaded by materials in a tank activates a micro switch and brings contact output and motor rotation to a halt at the same time.

With no load by materials, the motor resumes rotation.

When the paddle is overloaded or suffers strong shock, a clutch system prevents the engine from being broken by letting out excessive load and shock.

■ Standard Specification

Power Source: 100-110VAC or

200-220VAC 50/60Hz

Power Consumption: 4W

Contact Capacity: 250VAC 3A Resistance Load

Rate of Rotation : 1 r.p.m/50Hz Allowable Temperature : Environment 0-50°C

(Specs for cold location is available.)

In tank 0-50°C

Heat resistant type NNL series Max250°C

NNM series Max180°C

Withstand Voltage: 1500VAC one minute for in between

terminal and housing

Detection Torque : about 1000-2800N · m×10-4

Allowable Pressure : 19.6kPa

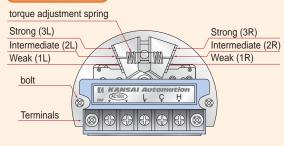
Color: Gold

Process Connection : G1B or Equivalent to JIS 5K 65A

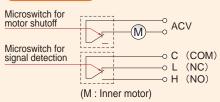
Enclosure Rating: IP65



Inner Components



Wiring Diagram





Basic model of reversible rotary paddle type with long life and high stability.

Wetted parts can be made of SUS304 or SUS316



Adjustable Shaft Type NNL-8BA Vertical mounting



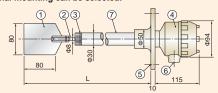
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Lock Nut	C3604
8	Protective Tube	SGP
9	Spring	SWP
10	Universal Joint	SS400

- Flange size: JIS5K65A equivalent
- Heat resistant type can be manufactured.Weight: about 2.2kg (L= Max1000)

Protective-tube extension type NNL-8BS

When the angle of repose is greater, there is much build-up on the tank-wall and so on, vertical, horizontal and diagonal mounting can be selected.





6

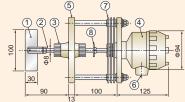
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

- •Flange size: JIS5K65A equivalent •The L dimensions below flange can be made from over 200mm.

- Sliding flange of the gland packing type can be manufactured.
 Heat resistant type can be available.
- •Weight: about 2.0kg (L=200)







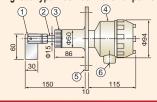
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Radiation Fin	ALP
8	Rotation Check Board	AC

- •Flange size: JIS5K65A equivalent
- Special version of max 1000°C
 Both Shaft-length adjustable and protective tube extension types can be available.
- •Weight: about 4.4kg

Withstand Load Type NNL-15B Level switch of withstanding load type mounted in a lower part of a silo.







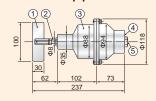
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	AC
5	Flange	AC
6	Conduit Connection	G 1/2

- •Flange size: JIS5K65A equivalent Heat resistant type and protective tube extension type can be available.

 Weight: about 2.2kg

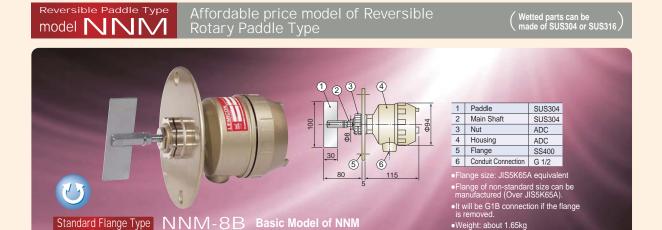






1	Paddle	SUS304
2	Main Shaft	SUS304
3	Housing	AC
4	Mounting Screw	G1-1/2
5	Conduit Connection	G 1/2

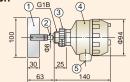
- Advise us of the length of lead cable. (Standard 350mm)
- •Weight: about 1.3kg



Screwed Joint Type NN-SC Small Hopper Level Switch





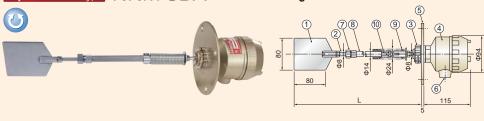


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Nut	ADC
4	Housing	ADC
5	Conduit Connection	G 1/2

- •Mounting G1B

- •Weight: about 1.1kg
 •Weight: about 1.1kg
 *Make the tank diameter Φ34
 in mounting NNM-SC.
 *The outside diameter of the crown nut is Φ48.

Adjustable Shaft Type NNM-8BA Vertical Mounting

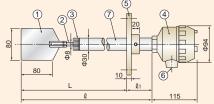


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Nut	ADC
4	Housing	ADC
5	Flange	SS400
6	Conduit Connection	G 1/2
7	Lock Nut	C3604
8	Protective Tube	SGP
9	Spring	SWP
10	Universal Joint	SS400

- •Flange size: JIS5K65A equivalent
- Heat resistant type can be available.Weight: about 2.0kg (L=Max.500)

Protective-tube extension type NNM-8BS Adjust the L dimensions by sliding flange





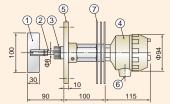
_		
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

- •Flange size: JIS5K65A equivalent
- The L dimensions below flange can be made from over 200mm.
 Heat resistant type can be available.
- •Weight: about 2.2kg (L=200)

Heat Resistant Type NNM-8BH Operating temperature in a tank:below 180°C





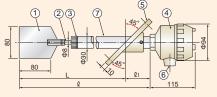


1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Radiation Fin	ALP

- •Flange size: JIS5K65A equivalent •The L dimensions below flange
- can be extended up to 200mm. Both Shaft-length adjustable and protective tube extension types can be available.
- •Weight: about 2.7kg

Diagonal Flange Type $\mathbb{NN}-8B\mathbb{N}(S)$ Best to mount at the conical area directly.

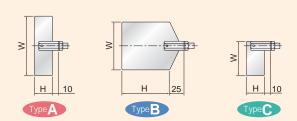




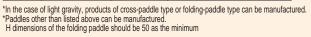
1	Paddle	SUS304
2	Main Shaft	SUS304
3	Sealcap	C3604
4	Housing	ADC
5	Flange	AC
6	Conduit Connection	G 1/2
7	Protective Tube	SUS304

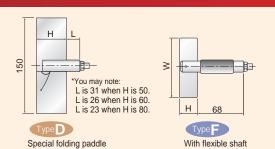
- •Flange size: JIS5K65A equivalent
- •The standard angle is 45°
 *It is possible to specify the angle.
- •Weight: about 2.2kg (L=200)

Paddle Shape



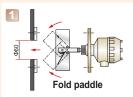
Paddle No.	W. H.	Chana	ban not anacitical
Paddle No.	W×H (mm)	Shape	when not specified
1	80×30	A	
2	100×30	A (Standard)	
3	128×25	A	8B, Type-A (100×30)
4	140×30	А	8BA, Type B (80×80)
5	128×80	A	
6	80×80	B (Standard)	*NNL/NNM model
7	128×60	В	common spec.
8	60×30	C (Standard)	
9	150×50	D	

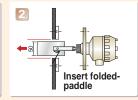


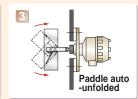


P	Paddle Shape Selection Table by Specific Gravity			
N	lo.	Shape	W×H (mm)	Min Specific Gravity
IN	10.	Snape	VV X [1] (!!!!!!)	NL Model
	1	Α	80×30	2.81
	2	Α	100×30	1.44
	3	Α	128×25	0.83
	4	Α	140×30	0.53
	5	Α	128×80	0.26
	6	В	80×80	1.06
	7	В	128×60	0.35
	8	С	60×30	1.44









Even if the folding paddle is made larger to measure low-specific gravity products, it can be attached to a tank without any special modifications, depending on the paddle's structure. (Possibly make the bore diameter larger than Φ60).

L Dimensions Table (Shaft-length Adjustable Type/NL)

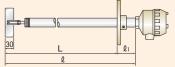


No.	Max dim.(mm)	Min Dim.(mm)	No.	Max dim.(mm)	Min Dim.(mm)
1	500	374	5	2,500	1,374
2	1,000	624	6	3,000	1,624
3	1,500	874	7	4,000	2,124
4	2,000	1,124	8	5,000	2,624

L Dimensions (Protective-tube Extension Type)

NM-8BS NNM-8BS





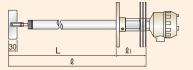
- About L-dimensions other than listed above, you may use a longer one-by-one size and slide the flange toward the paddle as necessary. Accordingly, £1 gets longer to the extent.
- 3. When a specific dimension paddle is used, you may slide the flange as described in item 2.
- 4. Products whose length of L is over 1000 may be manufactured upon request.

Paddle Length shape below flange	A 100×30		
L	Q	Q1	
135~200 (200)	230	230-L (30)	
201~300 (300)	330	330-L (30)	
301~400 (400)	430	430-L (30)	
401~500 (500)	530	530-L (30)	
501~600 (600)	630	630-L (30)	
601~700 (700)	730	730-L (30)	
701~800 (800)	830	830-L (30)	
801~900 (900)	930	930-L (30)	
901~1000 (1000)	1030	1030-L (30)	

00×30		Paddle Length shape below flange	В 8	0×80
	Q1	L	Q	Q 1
	230-L (30)	200~265 (200)	295	295-L (95)
	330-L (30)	266~365 (300)	395	395-L (95)
	430-L (30)	366~465 (400)	495	495-L (95)
	530-L (30)	466~565 (500)	595	595-L (95)
	630-L (30)	566~665 (600)	695	695-L (95)
	730-L (30)	666~765 (700)	795	795-L (95)
	830-L (30)	766~865 (800)	895	895-L (95)
	930-L (30)	866~965 (900)	995	995-L (95)
	1030-L (30)	966~1065 (1000)	1095	1095-L (95)

NM-8BHS NNM-8BHS

1. L dimensions of standard stock are 200, 300, 1000 only.



- About L-dimensions other than listed above, you may use a longer one-by-one size and slide the flange toward the paddle as necessary. Accordingly, £1 gets longer to the extent
- 3. When a specific dimension paddle is used, you may slide the flange as described in item 2.
- 4. Products whose length of L is over 1000 may be manufactured upon request.

Length shape below flange	A 100×30	
L	Q	Q 1
135~200 (200)	300	300-L (100)
201~300 (300)	400	400-L (100)
301~400 (400)	500	500-L (100)
401~500 (500)	600	600-L (100)
501~600 (600)	700	700-L (100)
601~700 (700)	800	800-L (100)
701~800 (800)	900	900-L (100)
801~900 (900)	1000	1000-L (100)
901~1000 (1000)	1100	1100-L (100)

Paddle Length shape below flange	B 80×80	
L	l	Q1
200~265 (200)	365	365-L (165)
266~365 (300)	465	465-L (165)
366~465 (400)	565	565-L (165)
466~565 (500)	665	665-L (165)
566~665 (600)	765	765-L (165)
666~765 (700)	865	865-L (165)
766~865 (800)	965	965-L (165)
866~965 (900)	1065	1065-L (165)
966~1065 (1000)	1165	1165-L (165)

Type Designation

Type of Detection Unit

- Protective-tube extension type
- Flexible shaft type
- Adjustable Shaft Type
- Protective cover type
- Heat resistant type
- Diagonal flange type

Type of Body

- 8B Main Shaft Φ8
- 10B Main Shaft Φ10
- 15B Main Shaft Φ15
- GM Withstand-pressure explosion-proof, Cable-conduit threaded
- SC Screwed-joint (small hopper) (Shaft Φ8 or Φ10)
- DA Inner Tank Hanging Type (with 5-core cable in 350mm long for external connection)

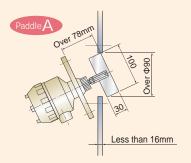
Name of Series

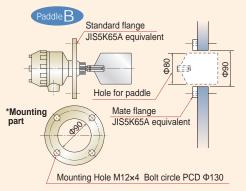
NM FL

Standard Model Explosion-proof

NNL Reversible Model NNM

Paddle Mounting









■ Standard Specification

Power Source: AC100 or 110 or 200 or 220V 50/60Hz

Power Consumption: 1.5W

Contact Capacity: 250VAC 3A (Resistance Load, SPDT) Rate of Rotation: 0.83r.p.m(50Hz) / 1.00r.p.m(60Hz)

Rotation Direction : Clockwise (Viewing from paddle)

Allowable Temperature: 0-50°C (no freezing) Heat resistant (0-120°C)

Withstand Voltage: 1500VAC one minute Detection Torque : 170-270N · m×10-4

Color : Gold

Setscrew: G 3/4B (material ADC)

Locknut: Hexagonal nut (opposite side 35mm,

thickness 10mm, material ADC)

Cable length : 500mm (max)

*Wetted parts made of stainless steel can be available.

Line of business

- Rotary Paddle Type Level Switch
 Conductance Type Level Switch
- Vibration Type Level Switch • Swing Type Level Switch
- Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
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- Tilt Switch
- Leak Type Level Switch
- · Microwave Switch
- Sounding Bob Type Level Indicator
- Flow Switch

- Float Type Level Indicator
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- Dust Monitor System
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CCIENCE Agent GATE

> SCIGATE AUTOMATION (S) PTE LTD Fax: (65) 6562 0588 Web: www.scigate.co Business Hours: Monday - Friday 8,30am - 6,15pm

Instructions before using the instrument *The specifications herein may be subject to change without advance notice.

*Please be sure to read USER'S GUIDE, Installation & Operation