



# ROTARY LEVEL SWITCH (RPL)

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## Rotary Level Switch

### Measuring Principle

Rotary level switch is connected with the clutch by the synchronous motor drive shaft. When the blade not in contact with the material, the motor maintains normal rotation. When the blade contact with the material to cause resistance, the motor will stop rotating. The internal mechanism sends a contact signal at the same time.

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### Feature

- Fully sealed.
- Unique oil seal design prevents powder dust from penetrating along the shaft
- The torque is stable, reliable & adjustable.
- Lightweight and easy for installation

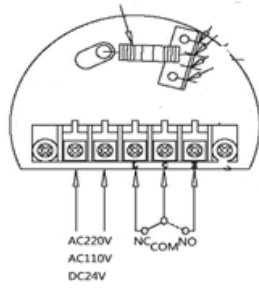
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### Application

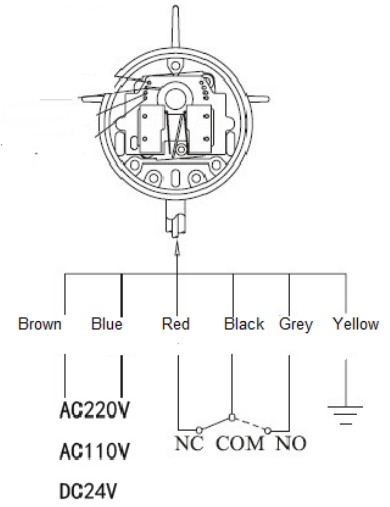
- Chemical plastic
  - Feed
  - Cement
  - Food Powder
  - Pharmaceuticals
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Structure Diagram

Big Type:

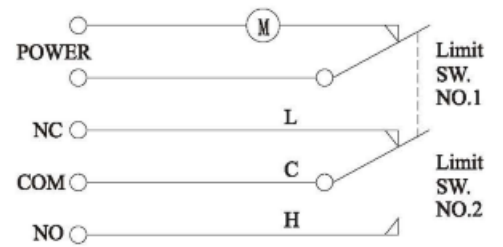


Small Type:



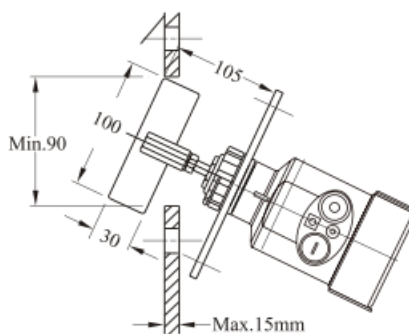
Control circuit principle:

1. When there is no resistance on the blade, the motor is moving (COM, NC ) line is connected. When the motor line is cut and there is resistance on the blade, (COM,NC) is broken & closed.
2. When the resistance on the blade disappears, the motor re-starts to indicate that the (COM,NC) line is closed and the action is restarted.



### Installation instructions and precautions:

Model RPL-20, direct install it on the barrel wall as shown in right figure. Insert one end of the blade into the opening of the barrel slot at an angle of about 35°, and then slowly turn the other end of the blade through the thickness of the barrel wall.



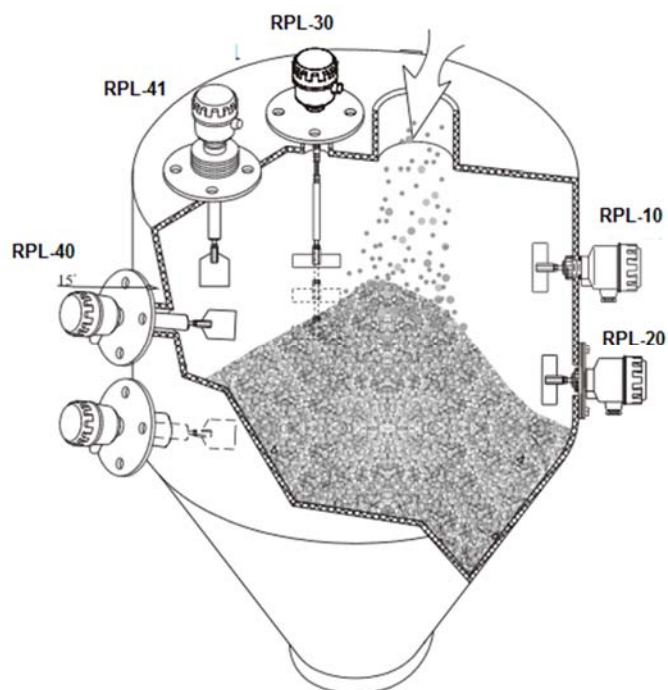
~ Please confirm whether the voltage used is consistent with the site before installation.

~ When horizontal installation, the switch can be installed at an angle of 15° to 20° to avoid material impact.

~ When the temperature inside the barrel exceed 80°C, please use the high temperature series.

~ Model RPL-30 axis is adjustable to overcome the problem of the angle of repose in the tank.

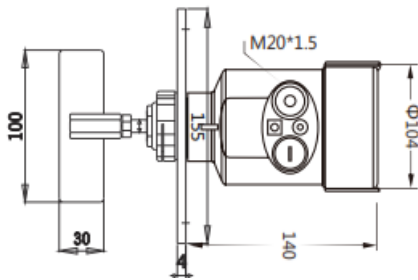
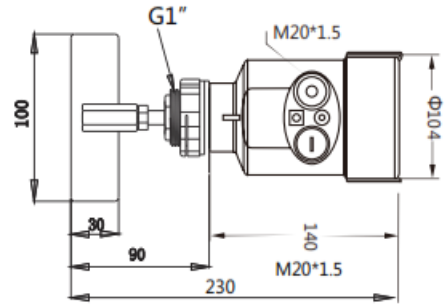
~ The junction box inlet must facing down and the cable fixing connector must be locked.



Technical Information

Model: RPL-10 (Thread)

Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	G1" thread (customizable)
Temperature	-20 ~ 80 °C
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65

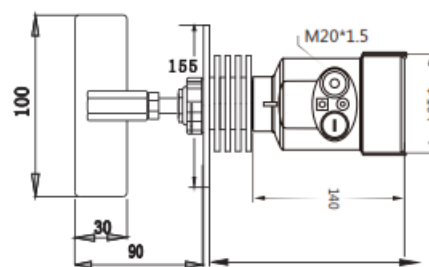


Model: RPL-20 (Flange)

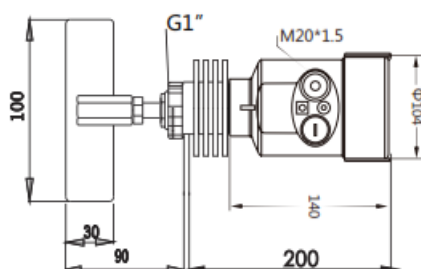
Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 80 °C
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65

Model: RPL-21 (High Temperature Flange)

Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 200 °C ( Max 350 °C )
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy paint
Protection level	IP65



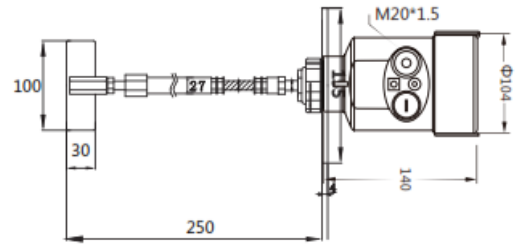
Model: RPL-21 (High Temperature Thread)



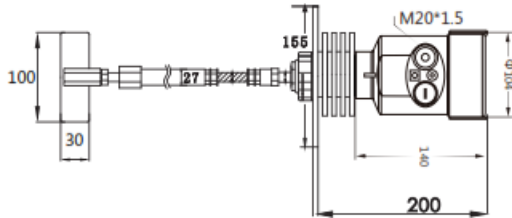
Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	G1" thread (customizable)
Temperature	-20 ~ 200 °C ( Max 350 °C )
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy paint
Protection level	IP65

Model: RPL-30 (Shaft Length adjustable)

Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 80 °C
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65



Model: RPL-31 (High Temperature Shaft Length)

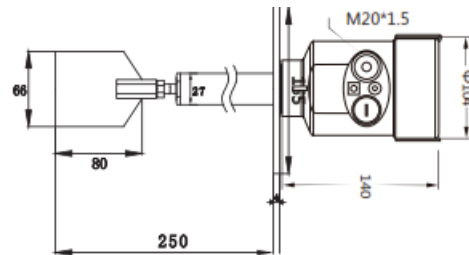


Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 200 °C ( Max 350°C)
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65



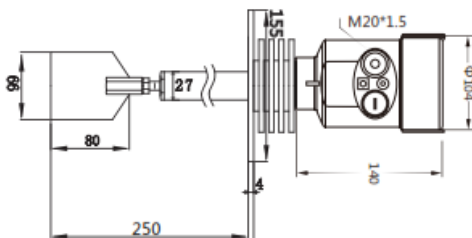
Model: RPL-40 (Shaft Protection Tube)

Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 80 °C
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65



Model: RPL-41 (High Temperature Shaft Protection Tube)

Voltage	24VDC - 220VAC
Power	3W
Contact rating	SPDT 5A/250VAC
Process connection	JIS 2-1/2" x 5k(customized)
Temperature	-20 ~ 200 °C ( Max 350°C)
Specific Gravity	≥ 0.5 g/cm <sup>3</sup>
Speed	1 RPM
Installation	Vertical or Horizontal
Junction box	Aluminium alloy
Protection level	IP65



Ordering Number

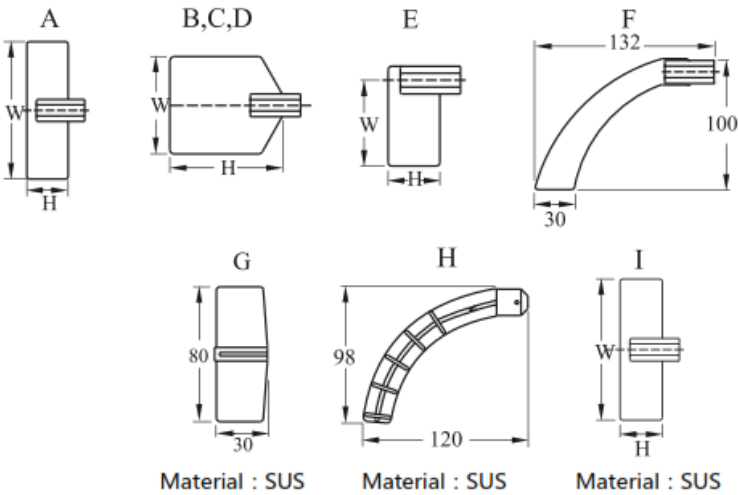
Code: RLS -

Type	10 : Thread type 20 : Flange Type 30 : Axis Length Adjustable 40 : Axis Protection Tube Type 11 : High Temperature Thread 21 : High Temperature Flange 31 : High Temperature Shaft Length Adjustable Type 41 : High Temperature Shaft Protection Tube
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Process connection	A : 1" thread B : 2" thread C : Special thread size D : 5kg/cm <sup>2</sup> flange E : 10kg/cm <sup>2</sup> flange F : Special flange size
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Power	A : 220 VAC D : 24 VDC
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Paddle Size (mm)	A: 100 x 30 (WxH) B: 65 x 80 (WxH) C: 65x120(WxH) D: 80x80(WxH) E: 50x30(WxH) F: Sickle Type G: Cross Type H: Small Sickle Type I: 100 x 30 (WxH)
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\* The total length of the product is affected by the function adjustment & tolerance is ±5mm

\* Product characteristics, specification and dimension can be modified at any time without notice

**Distributor:**

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