

ROTARY PADDLE LEVEL SWITCH



Cement factory



Plastical injection



Feed processing



Thermal power plant



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NOTE TO USERS

Thank you for purchasing this product. First, it is essential that this manual be read and understood before installation and start-up. For daily operation such and maintenance and troubleshooting, please refer to our INSTALLATION MANUAL.

Specifications are subject to change without any obligation on the part of the manufacturer.

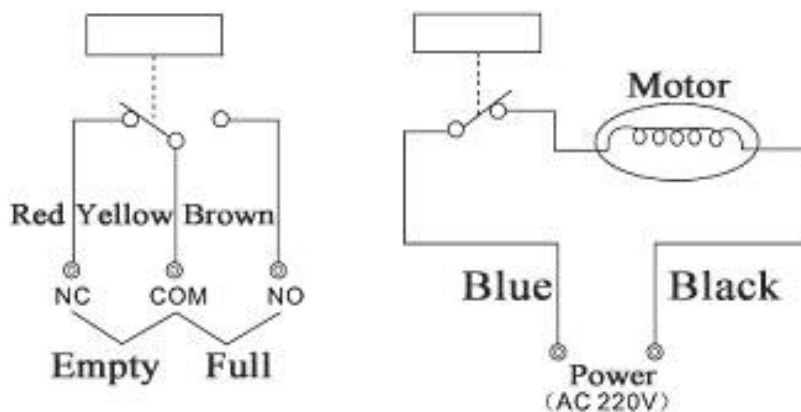
1. SPECIFICATION:

Power source	110/220VAC/24VDC
Power	3W
Contact capacity	SPDT 250VAC/ 10A
Speed	1 rpm
Temperature	100 °C/300 °C/500 °C /800-1000 °C
Insulation V.	1500V in 1 minute
Specific gravity	$\geq 0.5\text{g/cm}^3$
Torque	0.3~1Nm

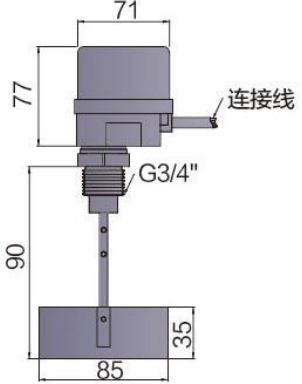
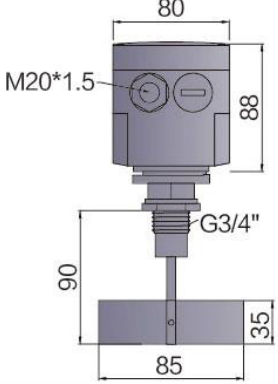
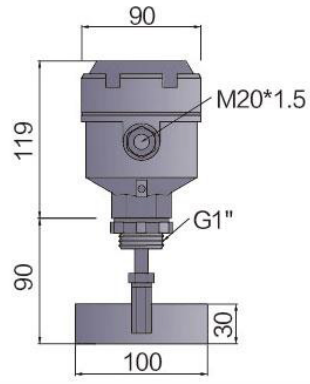
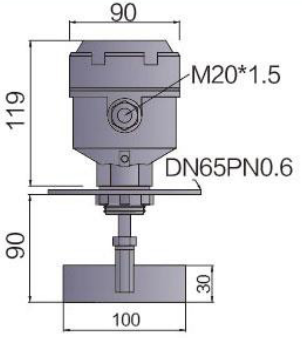
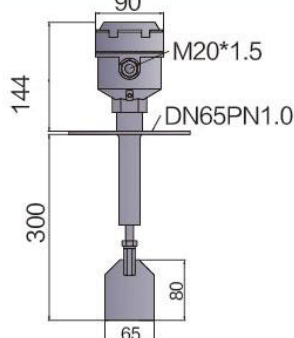
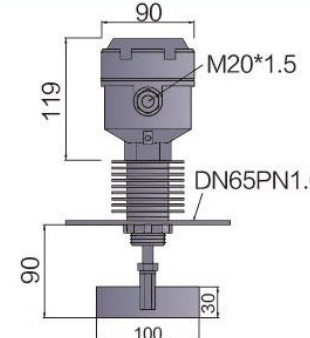
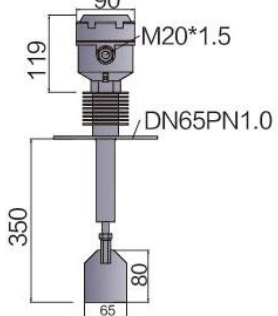
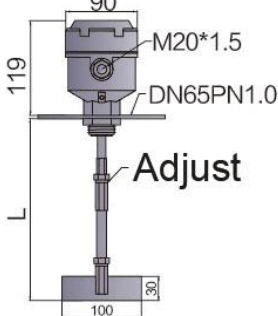
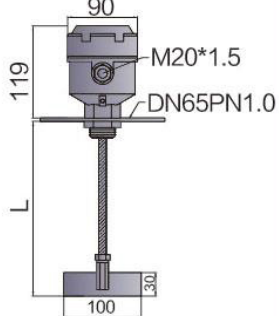
2. PRINCIPLE

A unit is usually located through a bin wall at the top, middle or low level of a bin. During normal operation (no material present) a synchronous motor rotates the paddle at 1 RPM. When this paddle rotation is impeded by material, surrounding the paddle, motor will stall and cause the Micro switch to change state. (Indicating an alarm or control)

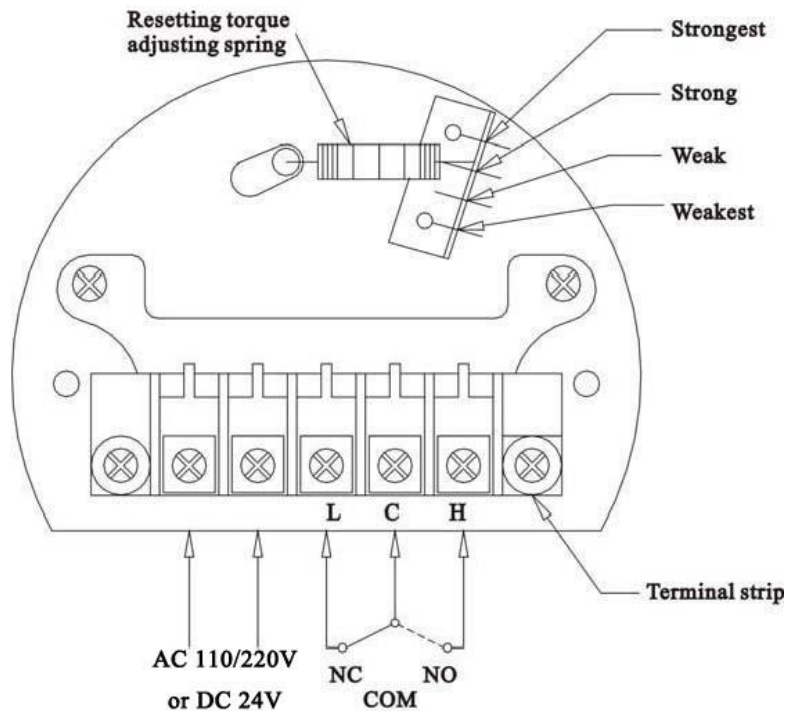
Mini Type



3. MODLE SELECTION GUIDE

		
<p>QRP-MINI</p>	<p>QRP20</p>	<p>QRP30S</p>
		
<p>QRP-F</p>	<p>QRP-P</p>	<p>QRP-FT</p>
		
<p>QRP-PT</p>	<p>QRP-E</p>	<p>QRP-R</p>

4. TORQUE ADJUST MECHANISM



The torque spring is applied to adjust the output torque of the shaft, which is set at “weak” position at factory, it is adjustable for target measuring material S.G.(special gravity), if the measured material with higher S.G., please try to release it to more stronger spring force position until you found the proper orientation.

The paddle sensitivity will be interacted by weaker, otherwise, the low S.G. material will release torque spring to the weakest position, which will cause the paddle performance to be more sensitive.

Note: the torque force should not be adjusted during test, avoiding the error check signal.

CAUTION

Make sure the supplying voltage is same as the specifications. Wrong voltage will damage the sensor.

WARNING

To avoid personal injury, DO NOT remove the housing cover after supplying the power. If you will touch any solder joints and terminals, you may receive an electric shock.

5. MAINTENANCE

Please check that the shaft and the paddle is bended or is damaged; Please check the connect between the shaft and the paddle; Do cleaning the shaft and the paddle timely.

6. INSTALLATION

When do installing or maintenance, open the device only after the power source is off.

Please side mount the switch by inclined 15°~20° to decrease the material inflowing impact; The wiring entry face downward, avoid the rain permeate into housing body.

Side and top mounting: KDSS86/KDSS86F/KDSS86FT/KDSS11/KDSS86M/KDSS86MT

Top mounting only: KDSS20/KDSS86G/KDSS86GT

7. TROUBLE SHOOTING

1	Problem	No output signal while the paddle rotates normally
	Reason	Check the material gravity, the paddle size doesn't fit for the material
	Solutions	Replace with suitable paddle
2	Problem	The paddle is distortion or the shaft is bended
	Reason	The inflowing impact force of the material is too big
	Solutions	The paddle and the shaft should be protected
3	Problem	The paddle doesn't rotate
	Reason	1) the power source isn't on 2) the motor is S: damaged
	Solutions	1) check the power wiring 2) replace the motor

8. ORDER NOTICE

Please check and confirm the following data:

Voltage: 24 VDC, 110/220/250VAC, 50/60Hz.

Side or top mounting

Material specific gravity (S.G.)

Paddle size: suitable to enter into the flange inlet

9. TYPICAL INSTALLATION

