

Rotary paddle level Switch

KDSS86

Wiring diagram and torque adjustment

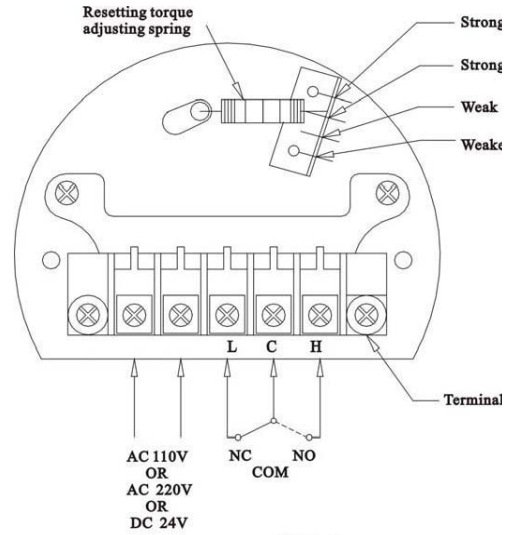
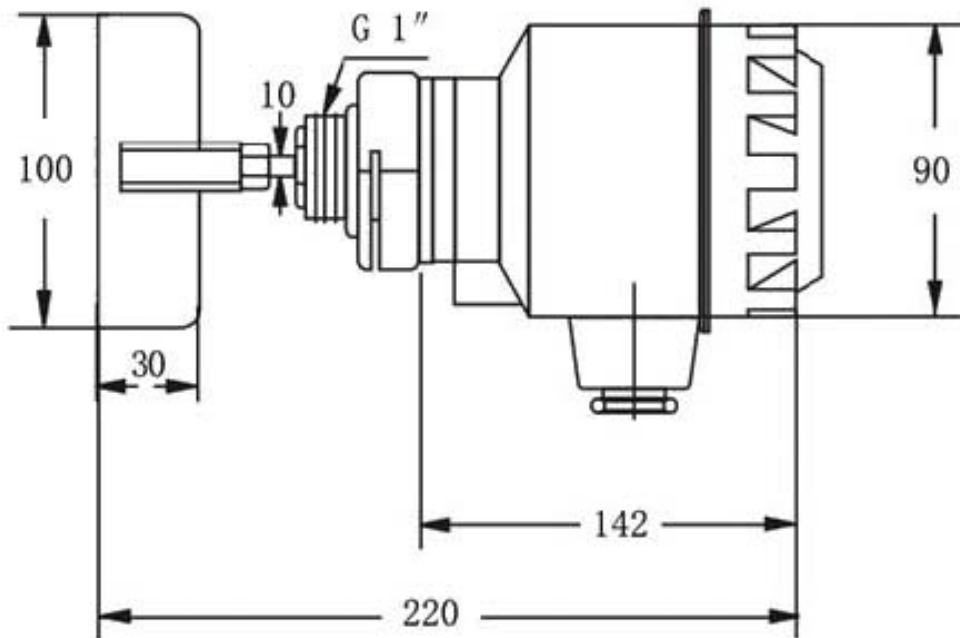


Figure 1



SPECIFICATION:

Power source:	220VAC
Power consumption:	3W
Contact capacity:	SPDT 220VAC/5A, 250VAC/3A
Rotary speed:	1 R.P.M.
Insulation test voltage:	AC 1500V in 1 minute
Torque :	0.3~1N . M
Specific gravity:	0.5g/cm³ 0.3g/cm³

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. Then confirm that the specifications are as required.

For daily operation such as changing set value, maintenance and troubleshooting, please refer to our INSTALLATION MANUAL.

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

Thank you for purchasing this product. First, it is essential that this manual be read and understood before installation and start-up. Then confirm that the specifications are as required.

For daily operation such as changing set value, maintenance and troubleshooting, please refer to our INSTALLATION MANUAL.

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

1. PRINCIPLE

The KDSS86 series operating principle is simple. 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)

2. TORQUE ADJUST MECHANISM

The torque spring is applied to adjust the shaft output torque force, which is set at "weak" position at factory side, it is adjustable as per customer side 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 step 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 removes the housing cover after supplying the power. If you will touch any solder joints and terminals, you may receive an electric shock.

3. 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.

4. INSTALLATION

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.

Please make sure whether any bridge block or vibrating motor installed onto the tank wall.

Please try to apply our item separate LB1110 RF level switch.

Note: those types can be side installed onto the tank wall only, they are KDSS86, KDSS86F, KDSS11, KDSS86M, KDSS86FT, KDSS86mini, (horizontal mounting)

KDSS20, KDSS86G and KDSS86GT are vertical mounting only.

When do installing or maintenance, the warning read as “open the level after the power source is off” should be obey to.

When there is the corrosive gas ambient, the aluminum and the stainless steel material should be avoid be used.

In the material tanks there is liquid or gas in it ,the temperature cannot go beyond the limit which the level switch can operating normally.

5. SOLUTION

The following table is the solutions for the normal problems:

The problem	The reason	The solution
There is not output signal, although the paddle rotates at all times	Because the material special gravity, the paddle dimensions cannot fit the material	Replace the suitable paddle
The paddle is distortion or the shaft is bended	The inflowing impact force of the material is too large	The paddle and the shaft should be protected
The paddle do not rotate	1) the power source isn't on 2) the motor is damaged	1) check the connect of the power wiring 2) replace the motor

7. ORDER NOTICE

Please make sure the Voltage 24 VAC, 110VAC, 220VAC or 240VAC, 50/60Hz.

Please make sure the side or top mounting.

Please make sure the material specific gravity (S.G.) value.

Please make sure the rotary paddle size is available to enter into the flange inlet.