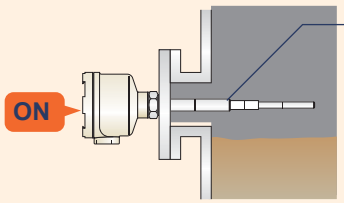
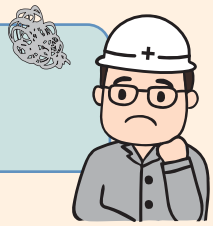
How to check the sensor insulation resistance

Capacitance type level switch



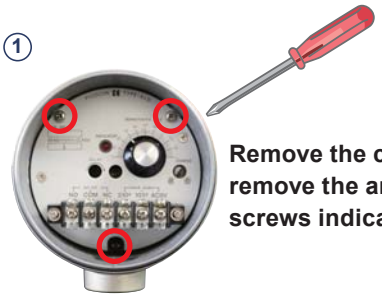
There is no visual abnormality or media adhesion on the sensor part.

It remains ON even if the media is not in the sensor position...
No abnormality is seen in the sensor part...

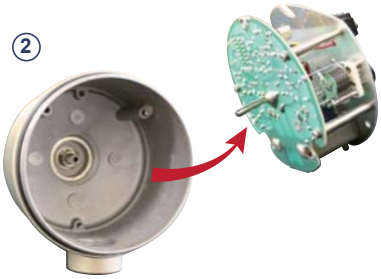


It looks fine, but it behaves strangely... In that case, let's check the insulation resistance.

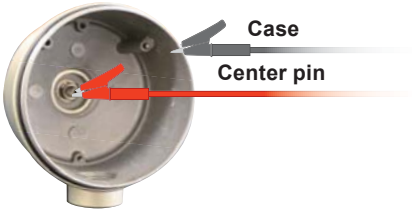
How to check the insulation resistance.

① 

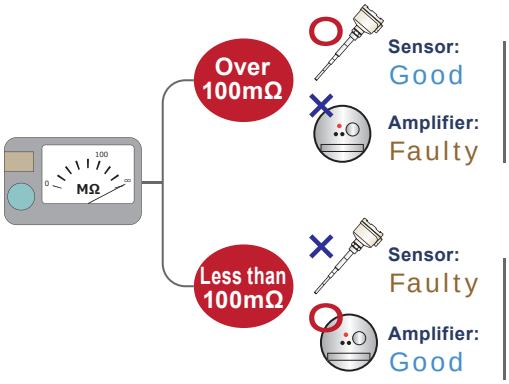
Remove the case cover and remove the amplifier fixing screws indicated in 3 places.

② 

Remove the amplifier from the case.

③ 

Check the insulation resistance between the center pin and the case with a megametre.



if the sensor is normal (100Ω or more), the insulation between the main electrode and the earth electrode is maintained. You can guess that the cause is in the amplifier part and narrow down the cause.

If there is something wrong with the sensor (100Ω or less) Since the insulation between the main electrode and the earth electrode may deteriorate due to the sealing material's deterioration, it is considered necessary to repair or replace the sensor part.