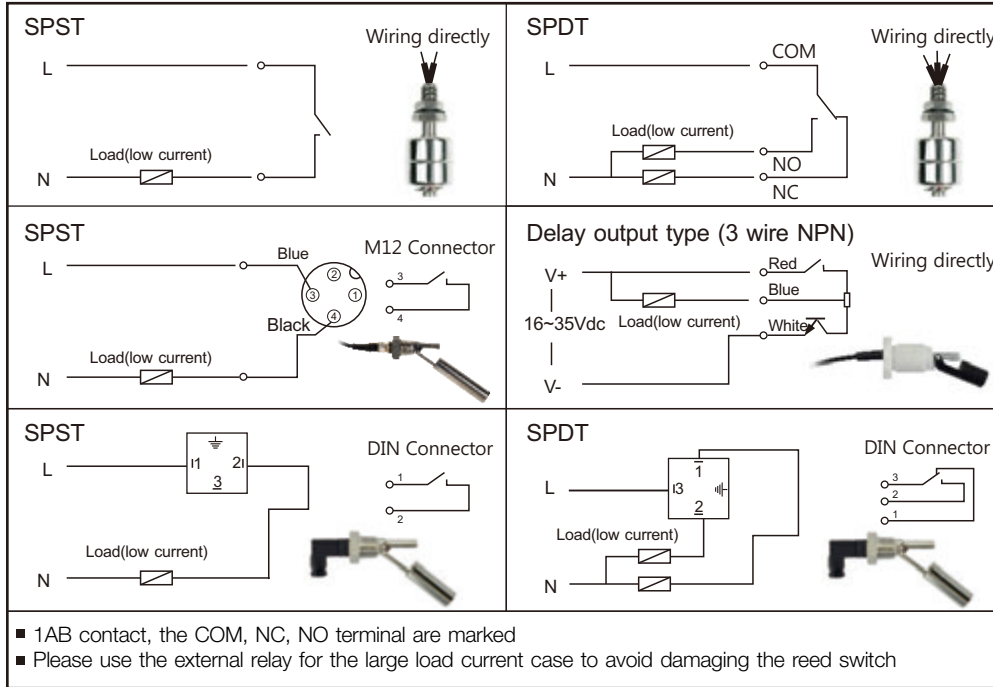
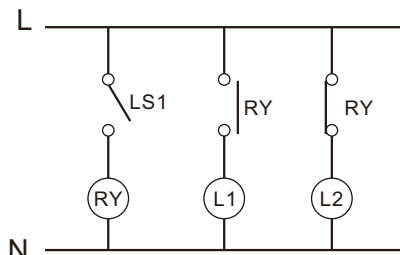


FC/FD Mini Float Level Switch Operation Manual

WIRING DIAGRAMS



RELAY WIRING DIAGRAM



LS1: Float switch

RY: external Relay (e.g., OMRON-MY2NJ)

L1&L2: Load (Switch or Alarm)

INDUCTIVE / CAPACITIVE LOADS

(1) Inductive : When using a reed switch with inductive loads such as motors, relays, solenoids etc., the contact will be subjected to a high induced voltage during opening of the contact(load circuit). Such high induced voltage(transients) may cause damages to the reed switch or significantly reduce its life. Therefore, protective circuits such as : RC(snubber), varistors or clamping diodes are recommended.

CAUTION ! Do not connect the reed switch directly to the solenoid valve, motor or the circuit of the magnetic contactor.

(2) Capacitive : When using a reed switch with capacitive loads such as capacitors, incandescent lamps or long cables, the contact will be subjected to a high surge(inrush) current. Therefore, protective circuits such as: surge suppressors or current limiting resistors are recommended.

(3) For details, please refer to page 5 of catalogue

ELECTRICAL SPECIFICATIONS

Switching Capacity	Switching Voltage Max.	Switching Current Max.	Carry Current Max.
10W/SPST	125Vac	0.5A	1A
20W/SPDT	150Vac 200Vdc	1A	2A
50W/SPST	240Vac 200Vdc	0.5A	1A
60W/SPDT	220Vac	1A	2A

※Do not use this product beyond the rated value of specifications. All parameters must be met in order to work properly. When the voltage or current increases, the other parameter must be relatively reduced. (W=VA)

Due to it needs at least 5 times bigger electric current to actuate the inductive load, so please ensure that the switching current is within the allowable range. Please reduce the current consumption of the load to 20% (for example, 0.5A, 0.1A).

Please refer to the product catalog for details of models and specifications.

INSTALLATION & NOTICE

- (1) The float level switch should be mounted faraway from liquid inlet, any strong liquid fluctuation will produce error output signals.
- (2) It is requested a pipe shield or equivalent device to normalize the switch actuation if the switch is used with any agitator application.
- (3) The float's S.G. have to be bigger than liquid in case that the float can't float.
- (4) In general, plastic material is suitable for corrosive liquid, and stainless steel material is suitable for high temperature application (e.g., fuel oil)
- (5) There are many type of float with different operating pressure, please see the catalogue for details

TROUBLE SHOOTING

Trouble	Possible Cause	Solution
Float Doesn't Work	The float's S.G. is bigger than liquid.	Confirm the S.G. Again.
	The float leaks.	Contact us to change the float.
	The granule blocks float.	Clean the granule.
No Signal	The float is out of position.	Adjust float position.
	The reed switch is malfunction.	To change reed.
Un-Normal Signal	Interfered by magnetic field.	Solve Magnetic field problem.

※Please contact us if there are any queries



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