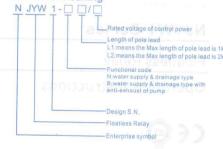
1 Purpose & Application Scope

NJYW1 series Floatless Relay(hereafter referred to "relay")is applicable for control circuit with up to AC380V, 50Hz(or 60Hz)as the liquid level control element in many occasions such as civil water tower, overhead water tank and underground water cistern, etc, which may realize automatic control on water supply or drainage in accordance with the connection requirement of users.

The product does not apply for the liquid level control of some liquids with poor conductivity such as oil, purified water, flammable and explosive chemical liquid and sewage with higher density.

The product meets with the standard of IEC 60947-5-1.

2Model & Meaning



- 3 Normal Working & Installation Condition
- 3.1 Normal working condition
- 3.1.1 Ambient air temperature
- a) Upper limit no more than+40°C and average within 24 hours no more than+35°C. b) Lower limit no less than -5°C.
- 3.1.2 Altitude

The altitude of installation place shall be no more than 2000m.

- 3.1.3 Atmosphere condition
- 3.1.3.1 Humidity

When the highest temperature is +40°C, the relative humidity shall be no more than 50%. Higher relative humidity is allowed under lower temperature. Special measure shall be tacken for accidentally appeared condensed dew due to temperature change.

- 3.1.3.2 Pollution grade: Grade 3.
- 3.2 Installation Condition
- 3.2.1 InstallationType:Type II.
- 3.2.2 Installation place
- a) In the places without obvious vibration and impact. b) In the media without explosive risk, and no gases that may be corrosive to metal and damage insulation
- and no eletric dusts remain in the media. c) In the places with device against rain and snow.
- 4 Main Technical Parameters
- 4.1 Rated voltage for control power is shown in Table 1.

Model	Voltage	
NJYW1-NL1. NJYW1-NL2	AC50Hz(or 60Hz)36V . 110V/220V . 220V/380V	
NJYW1-BL1、NJYW1-BL2	AC50Hz(or 60Hz)36V、110V、220V、380V	

- 4.2 Acceptable fluctuant range for relay voltage is 85%~110% of rated value.
- 4.3 Basic parameters of auxiliary circuit are shown in Table 2.

 Table 2 Basic Parameters of Auxiliary Circuit

	Agreed thermal current lth,A		Rated working voltage Ue, V	Rated working current le, A
One unit rainsition	Sem yil met	AC-15	220	0.75
contact	r ac llega ac	AC-15	380	0.47

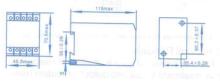
4.4 Basic Parameters for liquid detection pole and relay action are shown in Table 3.

Model	NJYW1-NL1、NJYW1-BL1	NJYW1-NL2、NJYW1-BL2
Length of pole lead	Max.1km	Max.2km
AC voltage output by liquid level detection pole	24V	
Action resistance	≤25kΩ yalenlame	
Release resistance	≥2kΩ	
Reaction time	Action:Max.80ms;Release:Max.160ms	

4 .5 Anti-interference withstand capability is shown in Table 4 Table 4 Anti-interference Withstand Capability

Item	Serious Grade
Static discharge withstand capability	Air discharge: ±8x(1±10%)kV
Radiated electromagnetic field withstand capability	Intensity of testing field: 10x(1±10%)(V/m)
Rapid transient withstand capability	2kV for power wire, lasting time: 1 min
Surge(impact) withstand capability	Open testing voltage:2x(1±10%) kV

- 4.6 Protection grade of realy housing: IP20.
- 4.7 Mechanical duration of relay:no less than 1 million times.
- 4.8 Electrical duration of relay:no less than 100.000 times.
- 4.9 Profile and installation dimensions are shown in Fig 1.

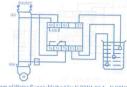


a)Profile Dimension

Fig 1 Profile & Installation Dimensions of NJYW1 Series Floatless Relay

b)Installation Dimension

4.10 Wiring principle of relay is shown in Fig 2~Fig 9.



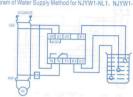


Fig 3 Wiring Diagram of Drainage for NJYW1-NL1、NJYW1-NL2

