

EP polypropylene float level switches

English technical specifications, original dimensions and wiring reference

The EP series uses a magnetic float to actuate an internal reed switch. Polypropylene float and body construction supports compatible water, clean liquids and mildly corrosive media. Reverse the float orientation to configure normally open or normally closed operation, then verify the resulting contact state.

1. Contact options — complete Chinese product table

Parameter	1A1	2A1
Operating / storage temperature	−30°C to 85°C	−20°C to 85°C
Contact power rating	10W / 10VA	20W at 100–265VAC; 10W for other loads
Maximum switching voltage, DC	200VDC	200VDC
Maximum switching voltage, AC	140VAC	265VAC RMS
Minimum breakdown voltage	250VDC	400VDC
Maximum switching current, DC	0.5A	0.4A
Maximum switching current, AC	0.35A	0.3A
Maximum carry current	1.0A	1.4A
Contact resistance	≤0.1Ω	≤0.1Ω
Insulation resistance	≥10 ¹⁰ Ω	≥10 ¹⁰ Ω
Contact capacitance, typical	0.2pF	0.2pF

Observe voltage, switched current and power limits simultaneously. Carry current and breakdown voltage are not operating switching allowances. Select the actual contact option before designing the circuit.

2. Model and drawing notes

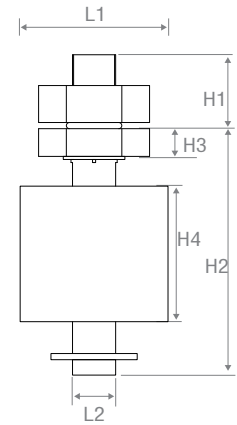
The original dimension sheet on the following page is already in English and is preserved in full. It covers 11 single-float models and eight double-float models. Dimensions are in millimeters; use the L1, L2 and H1–H5 symbols exactly as shown in each diagram.

The webpage lists EP10010-2-48, while the drawing lists EP10010-2-50 with H5=50mm. Confirm the required version and switching spacing; do not treat the two suffixes as interchangeable. M8×1.25 is explicitly listed for EP4310 and EP4510, despite the “10” in those model codes. The drawing lists M10×1.5 for EP5210 and M10×1.0 for EP6010, EP7510, EP8510 and EP10010.

The Chinese and English websites supply the same one-page dimensional PDF. Custom configurations are available. No complete model-code decoding table or electrical-terminal map for every variant is supplied.

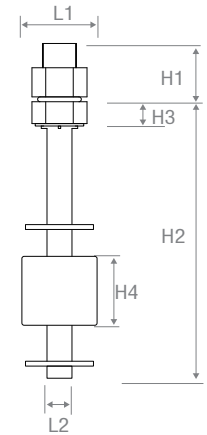
UNIT:mm

Model	L1	L2	H1	H2	H3	H4	Thread
EP2508	18	6.7	10	25	3	6	M8*1.25
EP3208	19	7	12	32	4	17	M8*1.25
EP3508	19	7	12	35	4.5	17	M8*1.25
EP4008	24	7	12	40	4.5	22	M8*1.25
EP4310	24	7	15	43	5	22	M8*1.25
EP4510	24	8	13	45	4.5	22	M8*1.25



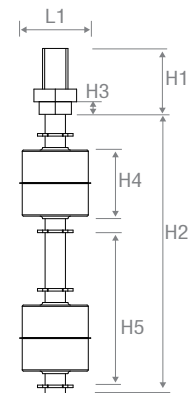
UNIT:mm

Model	L1	L2	H1	H2	H3	H4	Thread
EP5210	25	8	15	52	4	25	M10*1.5
EP6010	25	8	15	60	4	25	M10*1.0
EP7510	25	8	15	75	4	25	M10*1.0
EP8510	25	8	15	85	4	25	M10*1.0
EP10010	25	8	15	100	4	25	M10*1.0

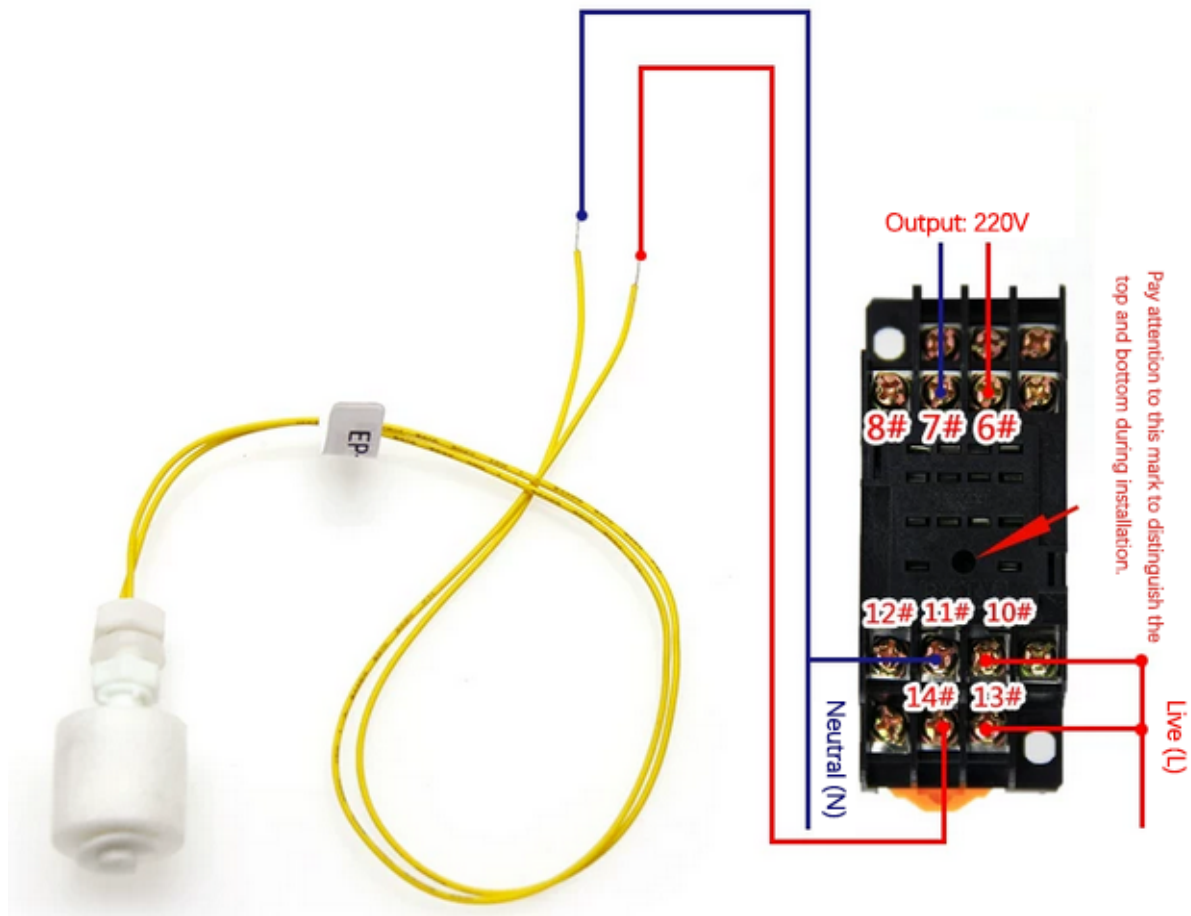


UNIT:mm

Model	L1	H1	H2	H3	H4	H5	Thread
EP10010-2-50	24	13.5	100	6	28	50	M10*1.5
EP12010-2-61	24	13.5	120	6	28	61	M10*1.5
EP15010-2-83	24	13.5	150	6	28	83	M10*1.5
EP20010-2-139	24	13.5	200	6	28	139	M10*1.5
EP25010-2-188	24	13.5	250	6	28	188	M10*1.5
EP30010-2-228	24	13.5	300	6	28	228	M10*1.5
EP40010-2-310	24	13.5	400	6	28	310	M10*1.5
EP50010-2-408	24	13.5	500	6	28	408	M10*1.5



Relay wiring reference and contact-option limits



English counterpart of the Chinese wiring attachment. Labels identify a 220V output, live (L), neutral (N), relay-socket reference numbers 6/7/8, 10/11/12 and 13/14, and the socket orientation mark used to distinguish top from bottom. The float contact is shown in series with the relay coil.

3. Scope of the 220V illustration

Do not use the 1A1 option on the illustrated 220VAC float-contact circuit: its maximum switching voltage is 140VAC. A 220VAC circuit requires the 2A1 option, with the actual relay-coil load within all applicable current and power limits. Verify the supplied switch rating, coil voltage, socket numbering and contact arrangement before wiring.

The photo is an example for the pictured socket and is not a universal relay pinout. Isolate power before work. Use appropriate isolation and switching equipment for the load. Electrical output comes from the relay circuit; the float is a passive contact sensor.

4. Selection and installation

Choose a model using its dimensions, thread and required number of floats. Install the stem with clearance for unrestricted float movement. Confirm the required normally open or normally closed state after reversing a float. Protect the cable and keep terminations dry. Material suitability depends on the liquid and operating temperature; the source does not state a drinking-water certification.

Document compiled from the Chinese EP product specifications, the unchanged English dimensional sheet and the English counterpart of its relay wiring image. Product-source trademark: ELECALL. Specifications may change without notice.