

EPC1-EPC8 side-mounted PP float switches

Complete English translation of manual VC-EPC-200402

1. Product introduction

The EPC series comprises compact side-mounted float level switches, including duckbill forms. The manual describes them as reliable, easy to use and simple in construction, with smaller size, faster action and longer service life than conventional mechanical switches, and greater resistance to load surges than electronic switches. No numerical comparative tests are supplied. Applications listed include shipbuilding, papermaking, printing, generator equipment, petrochemicals, food processing, water treatment, electrical equipment, fuel systems and hydraulic machinery.

2. Operating principle

A reed switch and a magnetic float form the sensing mechanism. The float follows the measured liquid level, and its magnetic field actuates the reed switch to produce an on/off signal.

3. Complete manual specification

Parameter	1A1	2A1
Maximum contact power	10VA	30VA
Switching voltage	110VDC	220VDC
Switching current, resistive	0.2A	0.2A
Breakdown voltage	200VDC	300VDC
Temperature range	−10°C to 85°C	−10°C to 85°C
Float material	PP	PP

Manual note: when a resistive load exceeds the rated contact capacity, an external miniature relay must be used to increase the controlled-load capacity. The float contacts themselves must remain within their ratings.

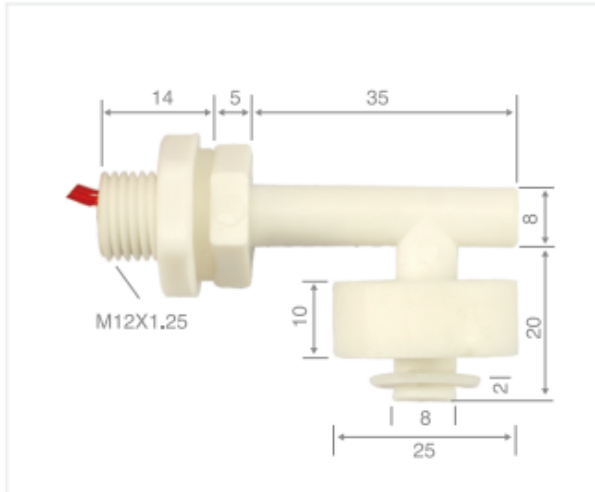
4. Chinese webpage specification differences

The product pages state maximum contact power 10W / 30W, maximum switching voltage 100VDC / 220VDC, resistive switching current 0.5A / 1.5A, and breakdown voltage 220VDC / 300VDC for 1A1 / 2A1 respectively. Both give −10°C to 85°C, maximum contact resistance ≤100mΩ, and applicable liquid-density reference 0.65×10³kg/m³ (650kg/m³). These values differ from the older VC-EPC-200402 manual table above; verify the supplied contact rating before applying the higher current values.

The Chinese dimension photographs on the next two pages take priority where the supplementary English drawing differs. In particular, EPC7 is marked G1/2 in the Chinese manual, while the English sheet labels it 1/2in NPT. Do not treat those threads as interchangeable. The English sheet’s EPC4 “3/8in, 13G” thread description is not confirmed by the Chinese manual, which instead shows a Ø21.8mm mounting seal.

5. Chinese manual dimensions — EPC1 to EPC4

All dimensions are in millimeters. Original numerical drawings are preserved; the model labels and thread callouts are already in Latin characters.



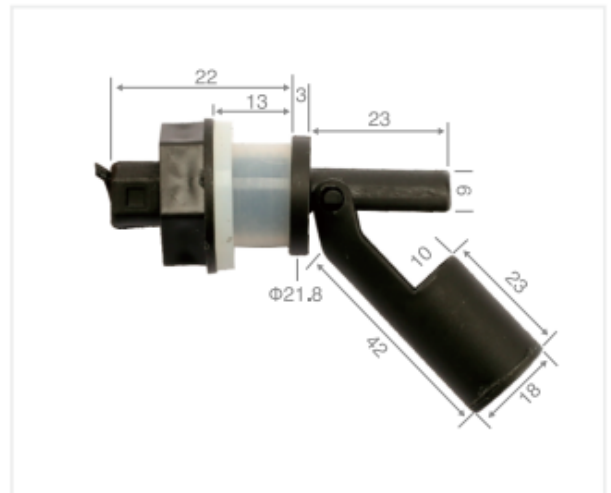
EPC1



EPC2



EPC3



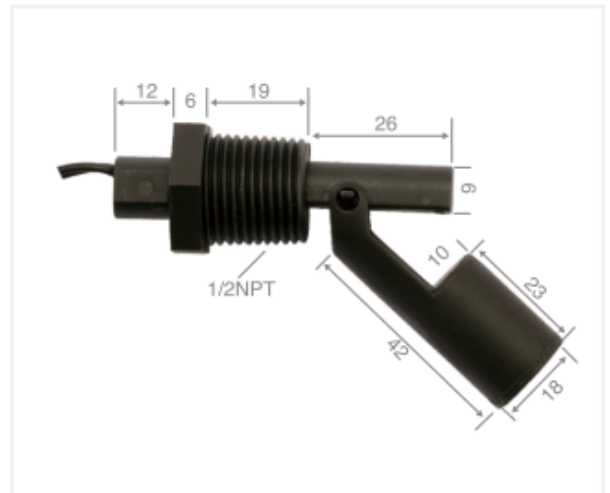
EPC4

EPC1: M12×1.25. EPC2: G1/4. EPC3: 1/2in NPT. EPC4: Ø21.8mm mounting seal; confirm the matching installation opening. Preserve each drawing's own dimensions when selecting the model.

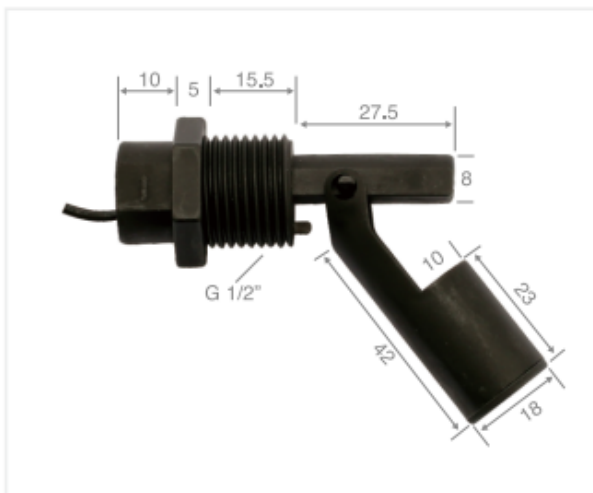
Chinese manual dimensions — EPC5 to EPC8



EPC5



EPC6



EPC7



EPC8

EPC5: M16×2.0. EPC6: 1/2in NPT. EPC7: G1/2. EPC8: M12×1.25. The common duckbill float references are 42mm overall movable-arm length, 23mm float-body length, 18mm float width and 10mm neck reference, as shown.

6. Original manual imprint

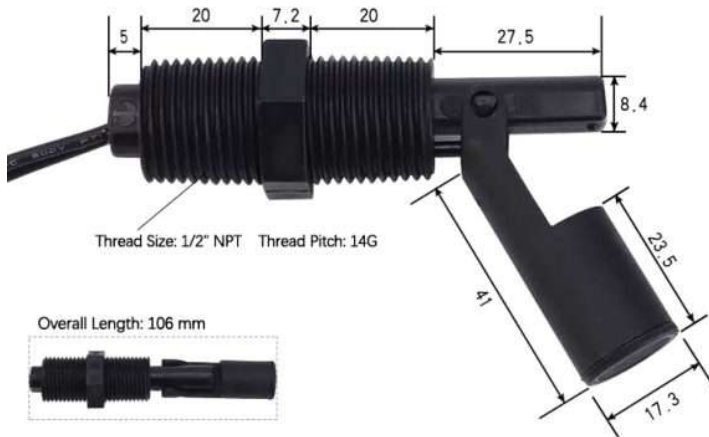
Trademark holder and authorizing company: Yueqing ELECALL Electric Co., Ltd. Manufacturer: Yueqing Liangzi Electric Co., Ltd. Address: Building G, Entrepreneurship Park, Yueqing Economic Development Zone, Zhejiang, China. Telephone: 0577-62792850. Manual reference: VC-EPC-200402. These details are translated as printed in the original manual.

7. Supplementary English drawing — EPC3 to EPC5

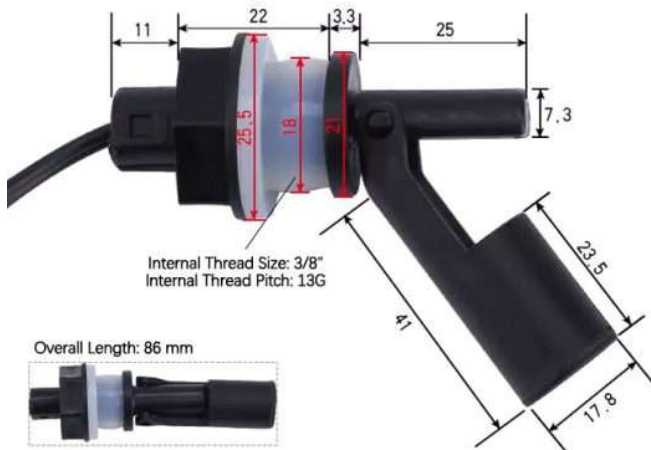
Separate English product-page reference. Dimensions differ slightly from the Chinese manual; confirm the final configuration. Chinese thread specifications take priority.

Unit:mm

EP-C3 WIGHT:31g



EP-C4 WIGHT:25g



EP-C5 WIGHT:24g



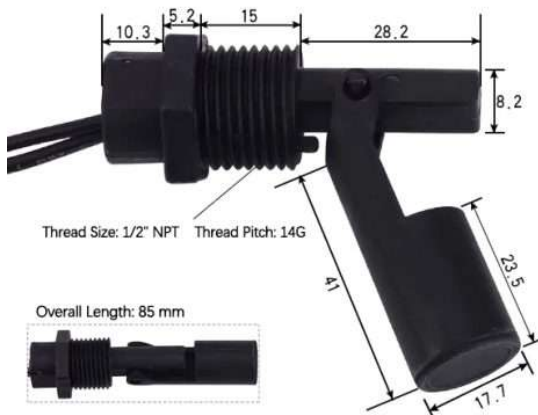
EPC6, EPC7 and EPC8 have reference masses of 24g, 25g and 18g, and overall lengths of 89mm, 85mm and 83mm respectively. EPC7 uses a G1/2 process thread; specify any alternative thread as a separate configuration.

Supplementary English drawing — EPC6 to EPC8

EP-C6 WIGHT:24g



EP-C7 WIGHT:25g



EP-C8 WIGHT:18g



EPC6, EPC7 and EPC8 have reference masses of 24g, 25g and 18g, and overall lengths of 89mm, 85mm and 83mm respectively. EPC7 uses a G1/2 process thread; specify any alternative thread as a separate configuration.

Installation: select the mounting hole or thread, tank-wall thickness, operating level, contact duty and cable length. Allow free float movement. Confirm the desired NO/NC state by orienting the float during installation. Use a relay or contactor for a load beyond the reed-contact capacity, and choose liquids compatible with polypropylene. These selection notes summarize the Chinese product-page instructions.