

EM15-2 cable float switch

Complete English specification sheet | Model-specific selection notes

1. Electrical and construction data

Parameter	Specification
Rated voltage	250VAC / 400VAC, according to ordered version
Rated current	4A / 8A / 12A, according to ordered version
Electrical life	≥110,000 operating cycles
Float density	0.69g/cm³, excluding cable
Protection	IP68
Operating temperature	0–70°C for the standard specification
Maximum pressure	≤0.3MPa
Housing	Polypropylene
Insulation	Composite PVC, rubber or silicone, optional
Conductor	Oxygen-free copper
Conductor options	3×0.5mm² / 3×0.75mm² / 3×1.0mm²
Conductor definition	Black or yellow-green: common; brown: drainage; blue: filling
Thermal current	10A / 16A at 250V; version-dependent
Sealing	Injection-molded seal
Switch construction	Three-terminal microswitch, NC/NO
Operating angle	Drainage 40°; filling –55°, ±5°
Minimum control range	Level difference ≥0.3m
Insulation resistance	≥100MΩ
Dielectric withstand test	1500V for 1 minute

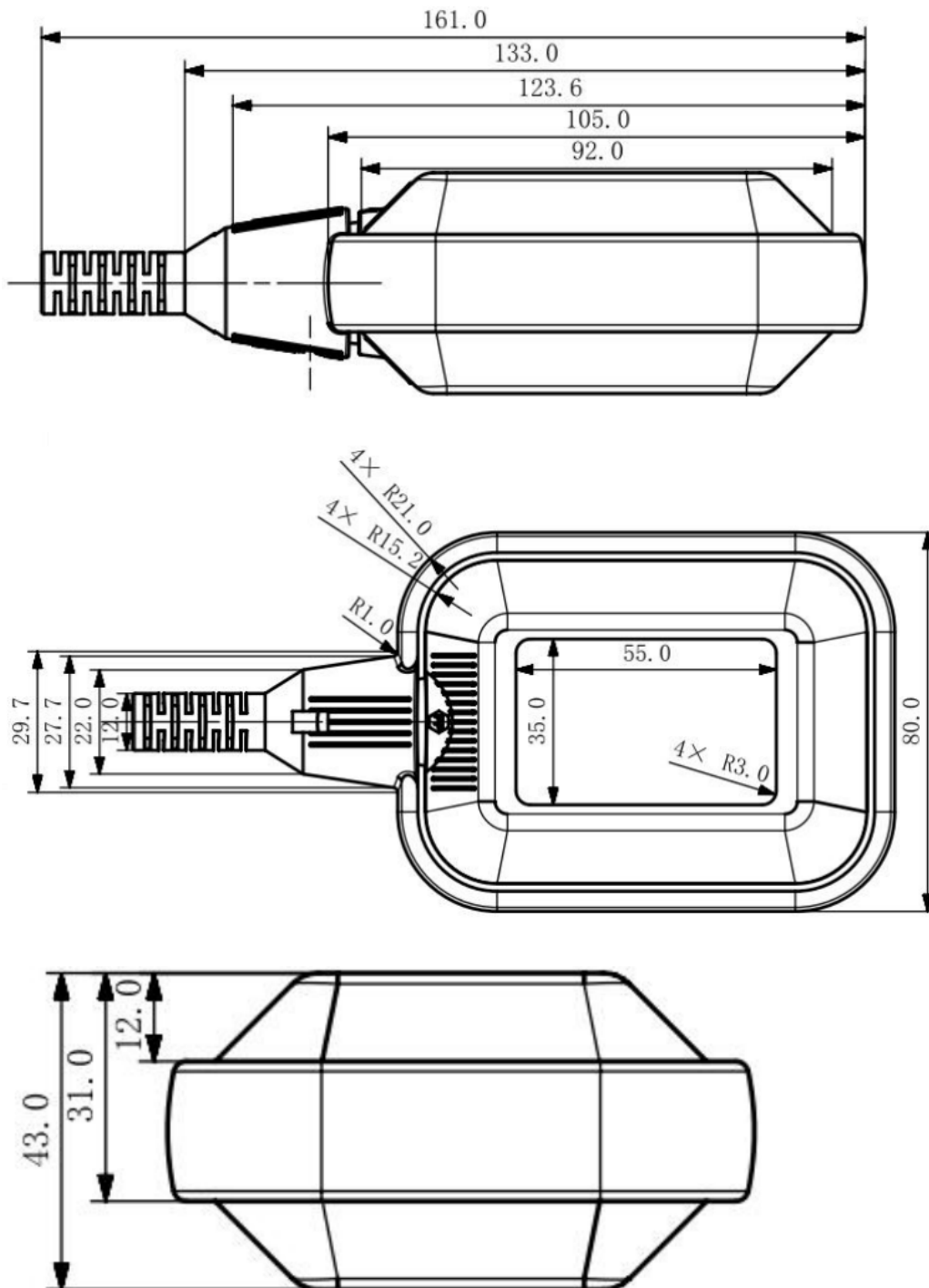
2. Conductor and nominal power comparison

Conductor area	Supported pump power	Full-load power
0.5mm²	750W	880W
0.75mm²	1000W	1320W
1.0mm²	1500W	1760W

These are the separate power entries printed in the source, not interchangeable load categories. The sheet does not map each current rating to a specific cable option or define motor starting duty. Use the instrument markings and load characteristics; the user manual recommends a contactor for larger pump loads.

Dimensions

3. EM15-2 rectangular float dimensional reference



All dimensions in mm. Overall length including cable entry: 161.0; principal body length: 105.0; width: 80.0; thickness: 43.0. The remaining profile and reference dimensions are retained in the original dimensioned drawing.

Length references: 133.0, 123.6 and 92.0. Cable-entry/profile references: 29.7, 27.7, 22.0 and 12.0. Face recess: 55.0x35.0. Profile heights: 31.0 and 12.0. Corner-radius callouts: 4xR21.0, 4xR15.2, R1.0 and 4xR3.0. These dimensions apply to the illustrated rectangular body, not the EM15-5 teardrop or plug/connector assembly.

Family versions and selection notes

4. Chinese-webpage configurations

Version	Cable / area	Temperature	Voltage entry
EM15-2 standard	PVC or composite PVC, 3×0.5mm ²	0–70°C	250V
EM15-2 reinforced	PVC or composite PVC, 3×1mm ²	0–70°C	400V
EM15-2 / 2A rubber	Rubber, 3×1mm ²	0–80°C	0–220V
EM15-2 / 2A silicone	Silicone, 3×1mm ²	0–80°C	0–220V
EM15-5 teardrop	Composite PVC, 0.75mm ²	0–80°C	250V
EM15 plug-in	PVC, 0.75mm ²	0–65°C	0–220V
Spring Garden anniversary	Composite PVC, 0.75mm ² in technical table	0–70°C	220V

Common cable lengths are 2m, 3m, 4m, 5m and 10m, with customization. These webpages specify a level difference greater than 30cm and a float density of 0.69g/cm³. Standard rectangular colors include blue and yellow/blue; the anniversary float is green/pink. The teardrop form supports stable movement and reduced fouling in suitable water and wastewater service.

5. Cable and load selection

The 0.5mm² and 1mm² PVC configurations list nominal pump powers of 750W and 1500W respectively. Rubber and silicone configurations list less than 1500W, the teardrop version 1000W, and the plug-in version less than 1000W. The anniversary configuration uses a 0.75mm² cable; select its load from the supplied cable and switch markings.

The plug-in configuration uses 0.75mm² cable and a 0–65°C operating range. Keep its plug and socket outside the liquid. The float IP68 designation does not establish an immersion rating for the supply plug. General 0–70°C versions are separate from the rubber, silicone and teardrop configurations rated 0–80°C.

6. Packing quantities

Cable length	Quantity per carton
2m / 3m	40
4m / 5m	30
6m / 7m / 8m	20

The source says standard products are listed; nonstandard custom products require a separate quotation. Original specification compiled 12 June 2025 and revised 19 September 2025. Yueqing ELECALL Electric Co., Ltd., No.246 Weishi Road, Yueqing Economic Development Zone, Zhejiang, China; hotline 4006-111-323.