

ESC small float level switches

User manual | VC-ESC-200407 | Complete English translation

1. Product introduction

The ESC series of small side-mounted float switches has a simple construction and is convenient to use. Compared with general mechanical switches, the source describes a smaller size, faster operation and longer operating life; compared with electronic switches, it describes greater resistance to load surges. Applications include shipbuilding, papermaking, printing, generator equipment, petrochemical processes, food-industry equipment, water treatment, electrical equipment, fuel systems and hydraulic machinery. These application descriptions do not establish a separate certification.

2. Operating principle

The level switch consists primarily of a reed switch and a float. The float contains magnetic material. As it rises and falls with the measured liquid level, it actuates the reed switch and produces an on/off signal.

3. Configuration illustrations



ESC11	ESC12	ESC19
M10×1	G1/2	G1/2; Hirschmann connector



ESC7810	ESC11510-2
M10×1.5; bent stem, single float	M10×1.5; bent stem, double float

The first three examples use hinged cylindrical floats. The last two use floats moving along a bent stem. The source section is titled “outline dimensions,” but supplies configuration illustrations and thread labels rather than complete dimensional measurements.

Specifications and source imprint

4. Specifications in the 2020 manual

Parameter	1A1	2A1
Maximum contact power	10VA	30VA
Switching voltage	110VDC	220VDC
Switching current	0.2A, resistive load	0.2A, resistive load
Breakdown voltage	200VDC	300VDC
Temperature range	−30–125°C	−30–125°C
Float material	304 stainless steel	304 stainless steel

Load note: If a resistive load exceeds the rated contact capacity, an external small relay must be used to increase the controlled load capacity.

5. Current bent-stem product specifications

The present single- and double-float bent-stem product pages give the following options. Keep these separate from the earlier manual configuration above.

Parameter	1A1	2A1
Maximum contact capacity	10VA	50VA
Maximum switching voltage	100VAC/DC	220VAC/DC
Maximum switching current	0.5A	1.5A
Breakdown-voltage reference	110VAC/DC	300VAC/DC
Maximum current with contacts already closed	1A	3A
Maximum contact resistance	100mΩ	100mΩ
Operating temperature	−30–120°C	−30–120°C

Observe switching voltage, switching current and contact capacity together. The stated carrying current applies with the contacts already closed and does not permit making or breaking that larger current.

6. Complete manufacturer imprint

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The complete Chinese manual is translated, including all five configuration examples, thread labels, specification cells, load note and manufacturer imprint. Product-specific dimensions and options remain separate from the generic examples.