

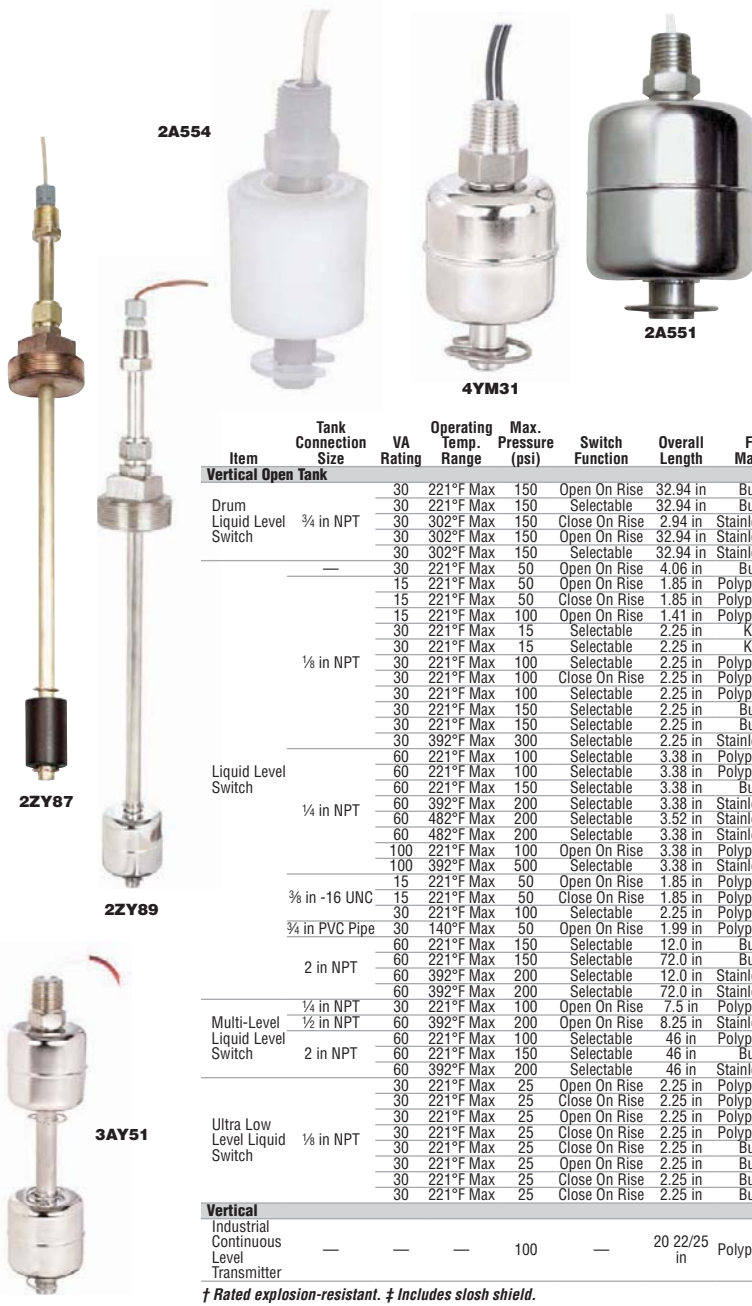


Vertical-Mount Liquid Level Switches

These float switches mount in the top and/or bottom of a tank or vessel to actuate High/Low alarms, control relays, PLC's, or other low power devices. Encapsulated, magnetic dry contact reed switches can deliver more than 5 million switching cycles at rated electrical loads.

On select models, operation can be changed to be Normally Closed or Normally Open (dry, empty tank conditions) by removing and flipping the floats.

During installation, Adjustable Vertical models can be set lower by up to 2", or higher by up to 69".



| Item | Tank Connection Size | VA Rating | Operating Temp. Range | Max. Pressure (psi) | Switch Function | Overall Length | Float Material | Float Length | Float Dia. | Stem Material | Stem Length | Mfr. Model | Item No. | |
|--|----------------------|---------------|-----------------------|---------------------|-----------------|----------------|-----------------|---------------|---------------|----------------------------|-----------------|--------------|--------------|--------|
| Vertical Open Tank | | | | | | | | | | | | | | |
| Drum Liquid Level Switch | ¾ in NPT | 30 | 221°F Max | 150 | Open On Rise | 32.94 in | Buna N | 1.25 in | 0.9 in | Brass | 32.0 in | M4168-2 | 22V50 | |
| | | 30 | 221°F Max | 150 | Selectable | 32.94 in | Buna N | 1.25 in | 0.9 in | Brass | 32.0 in | M4168-3 | 22V51 | |
| | | 30 | 302°F Max | 150 | Close On Rise | 2.94 in | Stainless Steel | 1.59 in | 0.9 in | Stainless Steel | 2.0 in | M4169-1 | 22V52 | |
| | | 30 | 302°F Max | 150 | Open On Rise | 32.94 in | Stainless Steel | 1.59 in | 0.9 in | Stainless Steel | 32.0 in | M4169-2 | 22V53 | |
| | | 30 | 302°F Max | 150 | Selectable | 32.94 in | Stainless Steel | 1.59 in | 0.9 in | Stainless Steel | 32.0 in | M4169-3 | 22V54 | |
| | | — | 30 | 221°F Max | 50 | Open On Rise | 4.06 in | Buna N | 1.0 in | 1.0 in | Brass | 4.06 in | M3782 | 11K183 |
| | Liquid Level Switch | ½ in NPT | 15 | 221°F Max | 50 | Open On Rise | 1.85 in | Polypropylene | 0.63 in | 0.58 in | Polypropylene | 1.25 in | M3326-NPT | 5DYC4 |
| | | | 15 | 221°F Max | 50 | Close On Rise | 1.85 in | Polypropylene | 0.63 in | 0.58 in | Polypropylene | 1.25 in | M3326-NPT-NO | 5DYC3 |
| | | | 15 | 221°F Max | 100 | Open On Rise | 1.41 in | Polypropylene | 0.44 in | 0.78 in | Stainless Steel | 0.75 in | M4035 | 5DYC6 |
| | | | 30 | 221°F Max | 15 | Selectable | 2.25 in | Kynar | 1.0 in | 1.0 in | Kynar | 1.63 in | M9000 | 22Y35 |
| | | | 30 | 221°F Max | 15 | Selectable | 2.25 in | Kynar | 1.0 in | 1.0 in | Kynar | 1.63 in | MS9000 | 22Y45 |
| | | | 30 | 221°F Max | 100 | Selectable | 2.25 in | Polypropylene | 1.0 in | 1.0 in | Polypropylene | 1.63 in | M8000 | 2A554 |
| ¼ in NPT | | 30 | 221°F Max | 100 | Close On Rise | 2.25 in | Polypropylene | 1.0 in | 1.0 in | Polypropylene | 1.63 in | M8000-NO | 5DYC9 | |
| | | 30 | 221°F Max | 100 | Selectable | 2.25 in | Polypropylene | 1.0 in | 1.0 in | Polypropylene | 1.63 in | MS8000 | 22Y43 ‡ | |
| | | 30 | 221°F Max | 150 | Selectable | 2.25 in | Buna N | 1.0 in | 1.0 in | PBT | 1.63 in | M7000 | 4YM35 | |
| | | 30 | 221°F Max | 150 | Selectable | 2.25 in | Buna N | 1.0 in | 1.0 in | PBT | 1.63 in | MS7000 | 22Y42 ‡ | |
| | | 30 | 392°F Max | 300 | Selectable | 2.25 in | Stainless Steel | 1.19 in | 1.13 in | Stainless Steel | 1.63 in | M5000 | 4YM31 | |
| | | 60 | 221°F Max | 100 | Selectable | 3.38 in | Polypropylene | 2.0 in | 1.5 in | Polypropylene | 2.63 in | M8800 | 2A552 | |
| ¼ in NPT | 60 | 221°F Max | 100 | Selectable | 3.38 in | Polypropylene | 2.0 in | 1.5 in | Polypropylene | 2.63 in | MS8800 | 22Y44 | | |
| | | 60 | 221°F Max | 150 | Selectable | 3.38 in | Buna N | 2.0 in | 1.25 in | Brass | 2.63 in | M4300 | 2A553 | |
| | | 60 | 392°F Max | 200 | Selectable | 3.38 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel | 2.63 in | M5600 | 2A551 † | |
| | | 60 | 482°F Max | 200 | Selectable | 3.52 in | Stainless Steel | 2.1 in | 2.13 in | Stainless Steel | 2.63 in | M5917 | 22Y27 | |
| | | 60 | 482°F Max | 200 | Selectable | 3.38 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel | 2.63 in | MS5917 | 22Y41 ‡ | |
| | | 100 | 221°F Max | 100 | Open On Rise | 3.38 in | Polypropylene | 2.0 in | 1.5 in | Polypropylene | 3.38 in | M8800-PR | 5DYD1 | |
| | ¾ in -16 UNC | 100 | 392°F Max | 500 | Selectable | 3.38 in | Stainless Steel | 2.0 in | 2.0 in | Stainless Steel | 2.63 in | M5600-PR | 4YM33 | |
| | | | 15 | 221°F Max | 50 | Open On Rise | 1.85 in | Polypropylene | 0.63 in | 0.58 in | Polypropylene | 1.25 in | M3326 | 4YM29 |
| | | | 15 | 221°F Max | 50 | Close On Rise | 1.85 in | Polypropylene | 0.63 in | 0.58 in | Polypropylene | 1.25 in | M3326-NO | 4YM30 |
| | | ¾ in PVC Pipe | 30 | 221°F Max | 100 | Selectable | 2.25 in | Polypropylene | 1.0 in | 1.0 in | Polypropylene | 1.63 in | M8000B | 5DYC7 |
| | | | | 140°F Max | 50 | Open On Rise | 1.99 in | Polypropylene | 0.75 in | 0.88 in | PVC | 1.55 in | M8000-C | 22Y91 |
| | | | | 221°F Max | 150 | Selectable | 12.0 in | Buna N | 2.0 in | 1.25 in | Brass | 10.5 in | M4302-7807-1 | 22Y87 |
| Multi-Level Liquid Level Switch | 2 in NPT | 60 | 221°F Max | 150 | Selectable | 72.0 in | Buna N | 2.0 in | 1.25 in | Brass | 70.5 in | M4302-7807-6 | 22Y88 | |
| | | 60 | 392°F Max | 200 | Selectable | 12.0 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel | 10.5 in | M5602-7808-1 | 22Y89 | |
| | | 60 | 392°F Max | 200 | Selectable | 72.0 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel | 70.5 in | M5602-7808-6 | 22Y90 | |
| | | 30 | 221°F Max | 100 | Open On Rise | 7.5 in | Polypropylene | 1.0 in | 1.0 in | Polypropylene | 6.75 in | M8085 | 3VU46 | |
| | | 60 | 392°F Max | 200 | Open On Rise | 8.25 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel | 7.25 in | M5605 | 3AV51 | |
| | | 60 | 221°F Max | 100 | Selectable | 46 in | Polypropylene | 2.0 in | 1.5 in | Polypropylene Adjustable | ML8888 | 3VU49 | | |
| | ¼ in NPT | 60 | 221°F Max | 150 | Selectable | 46 in | Buna N | 2.0 in | 1.25 in | Brass Adjustable | ML4444 | 3VU48 | | |
| | | | 392°F Max | 200 | Selectable | 46 in | Stainless Steel | 2.0 in | 2.13 in | Stainless Steel Adjustable | ML5555 | 3VU47 | | |
| | | | 221°F Max | 25 | Open On Rise | 2.25 in | Polypropylene | 1.16 in | 1.88 in | Polypropylene | 1.63 in | M8000-ULL-NC | 22Y74 | |
| | | | 221°F Max | 25 | Close On Rise | 2.25 in | Polypropylene | 1.16 in | 1.88 in | Polypropylene | 1.63 in | M8000-ULL-NO | 22Y75 | |
| | | | 221°F Max | 25 | Open On Rise | 2.25 in | Polypropylene | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M8020-ULL-NC | 22Y76 | |
| | | | 221°F Max | 25 | Close On Rise | 2.25 in | Polypropylene | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M8020-ULL-NO | 22Y77 | |
| Ultra Low Level Liquid Switch | ¾ in NPT | 30 | 221°F Max | 25 | Open On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | PBT | 1.63 in | M7000-ULL-NO | 22Y63 | |
| | | 30 | 221°F Max | 25 | Close On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M4400-ULL-NC | 22Y60 | |
| | | 30 | 221°F Max | 25 | Close On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M4400-ULL-NO | 22Y61 | |
| | | 30 | 221°F Max | 25 | Open On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M4400-ULL-NC | 22Y62 | |
| | | 30 | 221°F Max | 25 | Close On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | Stainless Steel | 1.63 in | M4400-ULL-NO | 22Y65 | |
| | | 30 | 221°F Max | 25 | Close On Rise | 2.25 in | Buna N | 1.16 in | 1.88 in | Brass | 1.63 in | M4500-ULL-NO | 22Y66 | |
| Vertical Industrial Continuous Level Transmitter | — | — | — | 100 | — | 20/22/25 in | Polypropylene | 2 in | 1 ½ in | 316 Stainless Steel | 18 ½ in | C4651-12802 | 54J30 | |

† Rated explosion-resistant. ‡ Includes slash shield.



Tethered-Mount Liquid Level Switches

Switches are designed to provide inexpensive, efficient, reliable level detection in large open vessels, water tanks, reservoirs, sumps, and ponds. A microswitch inside a molded polypropylene float detects fluid level change and generates a Start/Stop, Open/Close, or alarm actuation signal. Paddle-shape 2ZY80, oval-shape 11K185, and bulb-shape 11K187 and 11K188 have a contact rating of 16A at 250V. 6 ½-ft. cable, except 11K188 cable is 32 ½ ft. long.



| VA Rating | Max. Liquid Temp. | Max. Pressure (psi) | Float Switch Contact Form | Overall Length (in.) | Float Material | Float Length (in.) | Float Dia. (in.) | Mfr. Model | Item No. |
|-----------|-------------------|---------------------|---------------------------|----------------------|----------------|--------------------|------------------|------------|----------|
| 8A | 158 °F | 14.7 | SPDT | 5.63 | Polypropylene | 5.63 | — | M4546 | 11K185 |
| 8A | 158 °F | 14.7 | SPDT | 6.5 | Polypropylene | 6.50 | 4 | M4548 | 11K187 |
| 16A | — | 14.7 | SPDT | 5.95 | Polypropylene | 5.95 | — | M4189 | 22Y80 |
| 16A | 158 °F | 14.7 | SPDT | 6.5 | Polypropylene | 6 | 4 | M4549 | 11K188 |