

Selection Guide Liquid Level Controls

To view individual catalog pages,
see Catalog SS3
(1TRC001009C0201)
or www.ssac.com

Open PC Board



Monitor and control conductive liquid levels when filling or emptying tanks. Low cost open board design.

Plug-in Package



Monitor and control conductive liquid levels when filling or emptying tanks. Convenient plug-in packaging.

DIN Mount 22.5 mm Fixed



Monitor and control conductive liquid levels to prevent dry running and overflow.

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| | Series | LLC1 | LLC2 | LLC8 | LLC4 | LLC5 | LLC6 | CM-ENE |
|--------------------------------------|----------|--|--|---|--|----------|----------|---|
| Functions and Features | | | | | | | | |
| General Features | | | | | | | | |
| Single Probe & Common | | • | | • | • | | • | • |
| Dual Probe & Common | | | • | | | • | | |
| DIN Rail Mounting | | | | | w/socket | w/socket | w/socket | • |
| Surface Mounting | | • | • | • | w/socket | w/socket | w/socket | w/adaptor |
| Plug-In Socket Required | | | | | 8 pin | 8 pin | 11 pin | |
| Screw Terminals | | | • | | w/socket | w/socket | w/socket | • |
| Quick Connects | | • | • | • | | | | |
| Output Form | | | | | | | | |
| Isolated Output (2) = Two Outputs | | SPDT | SPDT | SPDT | SPDT | SPDT | | SP-NO |
| Non-Isolated Output | | SPST | | | | | SPDT | |
| Sensing Range | | | | | | | | |
| 6K ... 20K Ω | | | | | | | | |
| 1K or 5K ... 100K Ω | | | • | | | • | | • |
| 1K or 5K ... 250K Ω | | • | | • | • | | • | |
| 250 Ω ... 500K Ω | | | | | | | | |
| Set Point: A = Adjustable; F = Fixed | | A or F | A or F | F | A or F | A or F | F | F |
| Trip Delay Fixed | | 1...60 s | | 1...60 s | 1...60 s | | 1...60 s | ≅ 200 ms |
| Probe Voltage | | | | | | | | |
| 12 V AC | | • | • | • | • | • | • | |
| 20 V AC or 30 V AC | | | | | | | | • |
| Logic Type | | | | | | | | |
| Drain/Emptying | | • | • | | • | • | | • |
| Fill | | • | • | | • | • | | |
| Low Level Cut Off | | | | • | | | • | |
| Input Voltage | | | | | | | | |
| 24 V AC | | • | • | • | • | • | • | • |
| 24 ... 240 V AC/DC | | | | | | | | |
| 110 ... 130 V AC | | • | • | • | • | • | • | • |
| 220 ... 240 V AC | | • | • | • | • | • | • | • |
| 380 ... 415 V AC | | | | | | | | |
| Indicator LED (s) | | | | | | | | |
| Output(s) ON/OFF | | | | • | | • | • | • |
| Supply ON/OFF | | | | | | | | • |
| Dimensions | in mm | 2.75 x 3.5 x ≤2.0 69.9 x 88.9 x ≤50.8 | 3.0 x 4.0 x 2.0 76.2 x 101.6 x 50.8 | 2.19 x 2.5 x 1.88 55.6 x 63.5 x 47.8 | 1.78 x 2.39 x 2.91 (LLC5 D = 3.30) 45.2 x 60.7 x 73.9 (LLC5 D = 83.8) | | | 0.886 x 3.07 x 3.09 22.5 x 78 x 78.5 |

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Timers &
controls

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**DIN Mount
22.5 mm Adjustable**



Monitor and control conductive liquid levels when filling or emptying tanks. Thin profile Snap-ON mounting package.

**DIN Mount
45 mm Adjustable**



Monitor and control conductive liquid levels when filling or emptying tanks w/time-dependent features.

**Alternating Relays &
Duplexors**



Provides equal run time for two loads. Automatically changes lead load upon the opening of the control switch input. Industry standard wiring.

**Insulation
Monitors**



Monitors the insulation resistance between ungrounded AC/DC systems and ground.

| | Series | CM-ENS | CM-ENS UP/DOWN | CM-ENN | CM-ENN UP/DOWN | ARP_1 | ARP_2 | ARP_3 | CM-IWN C558.03 |
|-----------------------------------|----------|--|-------------------|---|-------------------|--|-----------|-----------|---------------------------------------|
| Functions and Features | | | | | | | | | |
| General Features | | | | | | | | | |
| Single Probe & Common | | • | • | • | • | | | | |
| Dual Probe & Common | | | | | | | | | |
| DIN Rail Mounting | | • | • | • | • | | | | • |
| Surface Mounting | | w/adaptor | w/adaptor | w/adaptor | w/adaptor | w/socket | w/socket | w/socket | • |
| Plug-In Socket Required | | | | | | 8 pin | 11 pin | 8 pin | • |
| Screw Terminals | | • | • | • | • | w/socket | w/socket | w/socket | |
| Quick Connects | | | | | | | | | |
| Output Form | | | | | | | | | |
| Isolated Output (2) = Two Outputs | | SPDT | SPDT | (2)SPDT | (2)SPDT | SPDT | DPDT | | SPDT or DPDT |
| Non-Isolated Output | | | | | | | | DPDT-X | |
| Sensing Range | | | | | | | | | |
| 6K ... 20K Ω | | | | | | | | | |
| 1K or 5K ... 100K Ω | | • | • | | • | | | | |
| 1K to 500K Ω | | | | | | | | | • |
| 250 Ω ... 500K Ω | | | | • | | | | | |
| Set Point: A=Adjustable; F=Fixed | | A | A | A | A | | | | |
| Trip Delay Fixed | | 250 ms | 250 ms | 0.1...10s Adj | 0.1...10s Adj | | | | |
| Probe Voltage | | | | | | | | | |
| 20 V AC or 30 V AC | | • | • | • | • | | | | |
| Logic Type | | | | | | | | | |
| Drain/Emptying | | • | Selectable | • | Selectable | | | | |
| Fill | | • | Selectable | • | Selectable | | | | |
| Alarm Levels | | | | | Low & High | | | | |
| Alternating/Duplexing | | | | | | • | • | • | • |
| Set Point Control | | | | | | | | | |
| 24 V AC | | • | • | • | • | • | • | • | |
| 24 ... 240 V AC/DC | | | | • | • | | | | • |
| 110 ... 130 V AC | | • | • | • | • | • | • | • | • |
| 220 ... 240 V AC | | • | • | • | • | • | • | • | • |
| 380 ... 415 V AC | | • | | • | • | | | | • |
| Indicator LED (s) | | | | | | | | | |
| Output(s) ON/OFF | | • | • | • | • | Loads A/B | Loads A/B | Loads A/B | • |
| Supply ON/OFF | | • | • | • | • | | | | • |
| Dimensions | in mm | 0.886 x 3.07 x ≤ 3.98 22.5 x 78 x ≤ 101 | | 1.77 x 3.07 x ≤ 3.98 45 x 78 x ≤ 101 | | 1.78 x 2.39 x 3.20 45.2 x 60.7 x 81.3 | | | 1.77 x 3.07 x 3.98 48 x 78 x ≤ 101 |

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