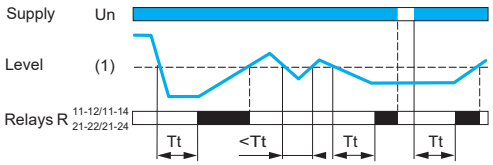
Operating principle (continued)

RM35LM33MW (continued)

Control of one level, fill function

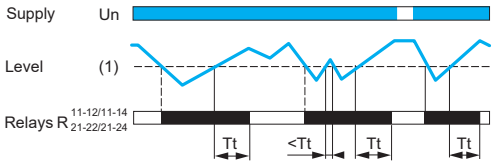
□ Fill function T on



■ Level: 1 - **on delay** functions:
- **LS** (Low Sensitivity: 250 Ω…5 kΩ)
- **St** (Standard Sensitivity: 5 kΩ…100 kΩ)
- **HS** (High Sensitivity: 50 kΩ…1 MΩ)

When the liquid level drops below the probe for a time greater than the time delay value Tt set on the front panel, the relay is energized and stays energized until the liquid level rises back up to the probe.
If the liquid rises back above the set level before the end of the time delay period, the relay is not energized.

□ Fill function T off



■ Level: 1 - **off delay** functions:
- **LS** (Low Sensitivity: 250 Ω…5 kΩ)
- **St** (Standard Sensitivity: 5 kΩ…100 kΩ)
- **HS** (High Sensitivity: 50 kΩ…1 MΩ)

When the liquid level drops below the probe, the relay is energized instantly and stays energized until the liquid level again reaches the probe level and stays above it for a time greater than the time delay period Tt set on the front panel.
If the liquid drops back down to below the set level before the end of the time delay period, the relay stays energized.

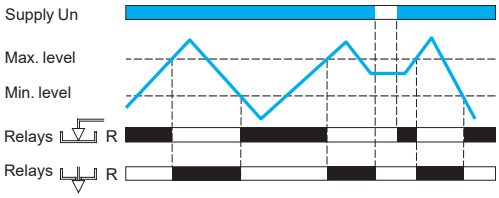
RM35LV14MW

A selector switch on the front panel allows selection of the function (empty or fill) and the type of sensor. A second switch allows selection of the number of levels (1 or 2) and the type of time delay in the case of 1 level mode.

The position of these configuration switches is taken into account on energization.
- If the configuration switch is set to an unacceptable position, the product detects a fault, the output relay stays open, and the LEDs flash to signal the position error.
- If the configuration switch position is changed while the device is operating, all the LEDs flash, but the product continues to operate normally with the function selected at the time of energization preceding the change of position.
- If the configuration switch is returned to the original position selected prior to the last energization, the LEDs return to their normal state.

Control of two levels

□ Fill/Empty function



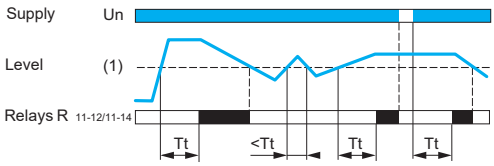
■ Empty function
Level: 2
The output relay stays open until the material reaches the Max. probe level. As soon as the Max. level is reached, the contact closes and allows emptying of the tank (valve opens, pump starts, etc.). When the level drops below the Min. probe level, the contact opens to stop the emptying process.

■ Fill function
Level: 2
The output relay stays energized until the material reaches the Max. probe. As soon as the Max. level is reached, the contact opens and the pump stops. When the level drops below the Min. probe level, the contact closes again and pumping re-starts to raise the level.

Note: *When two levels are being controlled, the anti-wave time delay function is not active.*

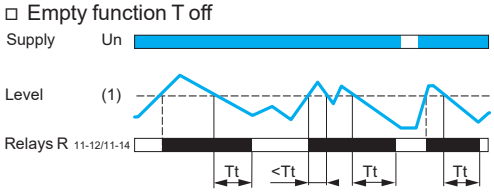
Control of one level, empty function

□ Empty function T on



■ Level: 1 - **on delay**
When the material level rises above the probe for a time greater than the time delay value **Tt** set on the front panel, the relay is energized and stays energized until the material level drops back to the probe.
If the level rises above the probe before the end of time delay period, the relay is not energized.

□ Empty function T off



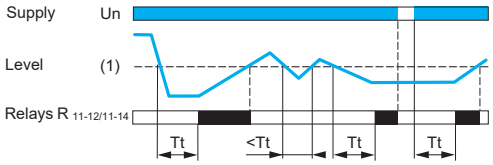
■ Level: 1 - **off delay**
When the material level rises above the probe, the relay is energized instantly and stays energized until the material level again reaches the probe and stays below it for a time greater than the time delay value **Tt** set on the front panel.
If the level drops back to below the probe before the end of time delay period, the relay stays energized.

Operating principle (continued)

RM35LV14MW (continued)

Control of one level, fill function

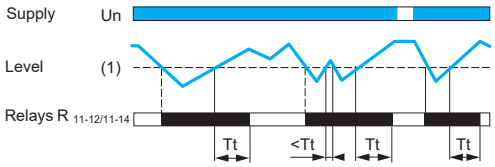
□ Fill function T on



■ Level: 1 - **on delay**

When the material level drops below the probe for a time greater than the time delay value **Tt** set on the front panel, the relay is energized and stays energized until the material level again reaches the probe.
If the level rises above the probe before the end of time delay period, the relay is not energized.

□ Fill function T off



■ Level: 1 - **off delay**

When the material level drops below the probe, the relay is energized instantly and stays energized until the material level again reaches the probe and stays above it for a time greater than the time delay period **Tt** set on the front panel.
If the level drops back down to below the probe before the end of the time delay period, the relay stays energized.

References

RM35LM33MW

RM35LV14MW

Function	Supply voltage	Output	Reference	Weight
	V			kg/*lb*
Detection by resistive probes (see page 70)	24…240 ≂	2 CO 5 A	RM35LM33MW	0.130/ *0.287*
Detection by discrete sensors	24…240 ≂	1 CO 5 A	RM35LV14MW	0.130/ *0.287*