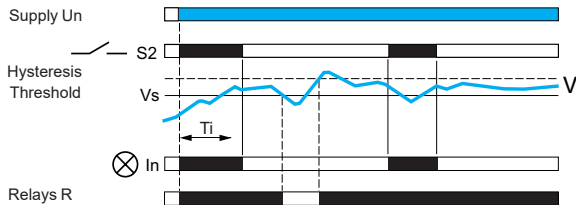


Operating principle (continued)

RM35S0MW

Underspeed control with inhibition by S2

□ With inhibition by S2 Inhib./S2



On energization, to allow the process being monitored to reach its nominal operating speed, relay RM35S is inhibited for a time delay adjustable from 0.6...60 s. This time delay can be adjusted (shortened or lengthened) during inhibition.

Relay RM35S can also be inhibited by closing of contact S2: on starting, for example, if the process run-up to speed time is greater than 60 s, or at any time during operation.

Whether it results from a starting inhibition time delay or closing of S2, inhibition keeps the output relay in the "closed" position and is signaled by illumination of the inhibition LED.

If, after lifting of inhibition (end of starting inhibition time delay or opening of contact S2), the signal detection phase has not been completed, the relay drops out after the set wait time between two impulses (measured from the end of inhibition).

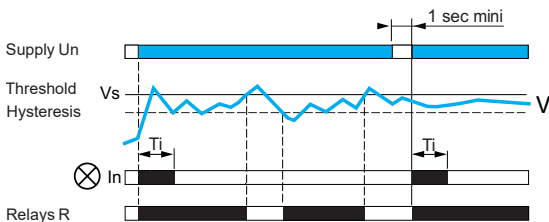
Inhibition should last as long as is necessary for the product to detect at least 2 periods.

When the signal has not been 'characterized' by the end of the inhibition period, the "inhibition" LED flashes for as long as speed measurement is impossible.

It is also possible to inhibit relay RM35S at any time, during operation, by closing S2.

Overspeed control without memory

□ Overspeed control, without memory



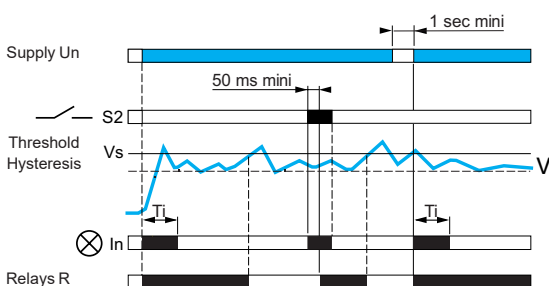
At the end of the starting inhibition time delay, "Ti", as soon as the speed measured is higher than the threshold setting, the output relay changes state from "closed" to "open".

It returns to its initial state when the speed is again lower than the threshold minus hysteresis (fixed at 5% of the threshold setting).

When power is restored to relay RM35S, after a break having lasted at least 1 s, the relay is in the "closed" state during the time delay and stays in that state for as long as the speed remains lower than the threshold.

Overspeed control with memory

□ Overspeed control, with memory



When relay RM35S has been configured in "memory" mode, if overspeed is detected, the output relay stays in the "open" state, irrespective of any further changes in the process speed.

It will not be able to return to the "closed" state until contact S2 closes (for at least 50 ms).

If, when S2 re-opens, the speed is too high, the relay returns to the "open" state.

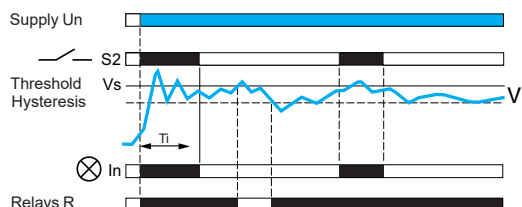
Relay RM35S can also be reset by a power break (at least 1 s); the relay then returns to the "closed" state for at least the duration of the time delay, irrespective of the process speed.

Operating principle (continued)

RM35S0MW

Overspeed control with inhibition by S2

- With inhibition by S2. Inhib./S2



On energization, in order to allow the process being monitored to reach its nominal operating speed, relay RM35S is inhibited for a time delay adjustable from 0.6...60 s. This time delay can be modified (shortened or lengthened) during inhibition.

Relay RM35S can also be inhibited by closing of contact S2: on starting, for example, if the process run-up to speed time is greater than 60 s, or at any time during operation.

Whether it results from a starting inhibition time delay or closing of S2, inhibition keeps the output relay in the "closed" position and is signaled by illumination of the inhibition LED.

If, after lifting of inhibition (end of starting inhibition time delay or opening of contact S2), the signal detection phase has not been completed, the relay drops out after the set wait time between two impulses (measured from the end of inhibition).

Inhibition should last as long as is necessary for the product to detect at least 2 periods. When the signal has not been 'characterized' by the end of the inhibition period, the "inhibition" LED flashes for as long as speed measurement is impossible.

It is also possible to inhibit relay RM35S at any time, during operation, by closing S2.

Reference



RM35S0MW

Function	Supply voltage V	Measurement Input	Output	Reference	Weight kg/lb
- Underspeed (with/without memory) - Overspeed (with/without memory)	24...240 V	3-wire PNP or NPN proximity sensor - Namur proximity sensor 0-30 V voltage - Volt-free contact	1 CO 5 A	RM35S0MW	0.130/ 0.287