# **Function diagrams**





Adds up the total opening time of a contact. On energisation, the output relay "R" (or the load) changes state, and stays there for the whole duration of the time delay and drops out at the end of the single shot cycle. K function: Delay on de-energisation True delay off (without auxiliary power supply) On energisation, the output relay "R" (or the load) changes state. On de-energisation timing starts and the relay "R" will only drop out at the end of this time delay. L function: Asymmetrical flashing Repetitive cycle with two times which can be set independently. Each time delay alternates with a different state of the output relay "R" (or the load). Note: The cvcle starts with the relay "R"in the rest position. Li function: Asymmetrical flashing

On energisation, the output relay

"R" (or the load) changes state, and

stays there for the whole duration of

the time delay and drops out at the

end of the single shot cycle.

On the first control pulse. the output is excited. If the interval between two impulses is longer than the timing value, this occurs normally and the output relay "R" (or the load) will change state at the end of timing. Otherwise. relav "R" stavs in its original state until the condition is fulfilled.

Repetitive cycle with two times

which can be set independently.

# • O function: "Delayed safe-guard"

On energisation, a first timer runs and the output relay "R" (or the load) changes state. On the appearance of a control pulse, relay "R" returns to its initial position and stays there as long as

the time interval between 2 impulses is less than the timing value. Otherwise, relay "R" will change state at the end of timing.



# • P and Pe functions: Impulse counter (delay on)





## P function:

Timing starts on energisation. At the end of timing, the output relay "R" (or the load) changes state for approximately 500 ms.

### Pefunction: On energisation.

At the end of timing, the output relay "R" (or the load) changes state for approximately 1 s.

## Pt function: Impulse counter (delay on)



Adds up the total opening time of a contact. At the end of timing, the output is excited for approximately 500 ms.

# • Q function: "Star-delta" starting



On energisation, the "star" contact closes instantaneously and timing starts. At the end of timing the Ti "star' contact opens. After a pause of 40 to 100 ms the "delta" contact closes.

# TL function: Impulse relay



After energisation, a control pulse or latching contact closes the relay. A second control pulse opens the relay.

# Tt function: Timed impulse relay



After energisation, a control pulse or latching contact closes the relay and starts timing.

The relay opens at the end of timing or on a second control pulse.

# W function: Timing after pulse on control contact



After energisation, opening of the control contact results in a change in the state of output "R" (or the load) and timing starting