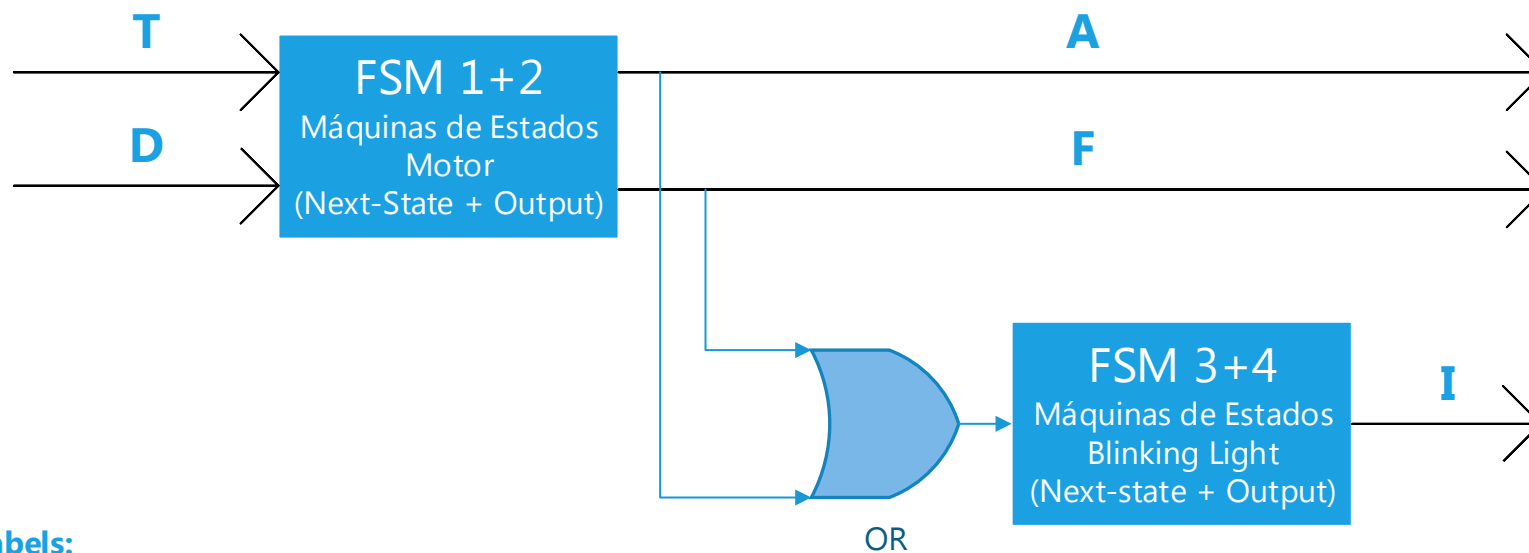


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Arquitectura / Architecture

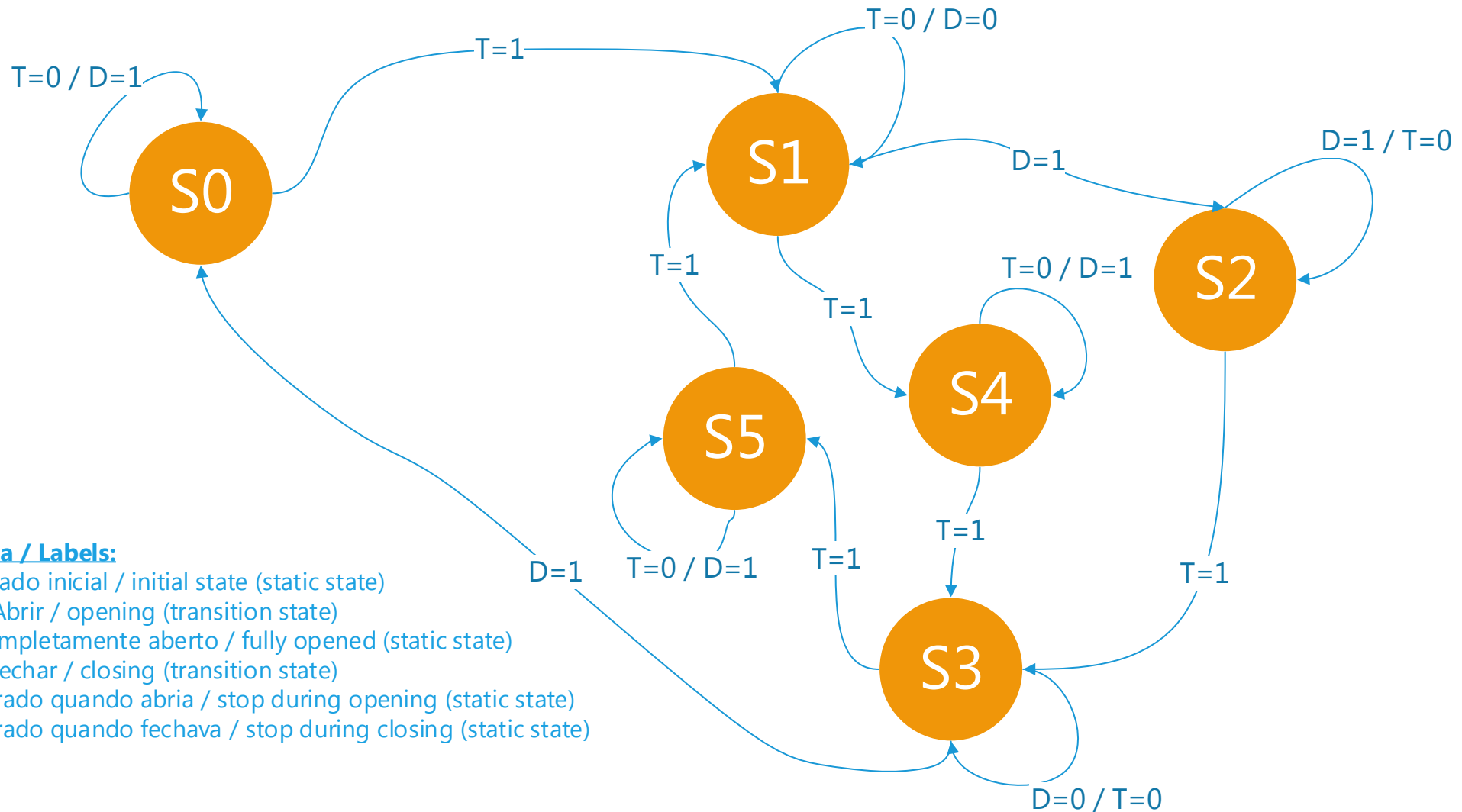


Legenda / Labels:

- T – Sinal de comando / command signal
- D – Fins de curso / open&close micro-switch
- A – Abrir portão / open gate
- F – Fechar portão / close gate
- I – Luz intermitente / blinking light

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Diagrama de Estados / State Diagram

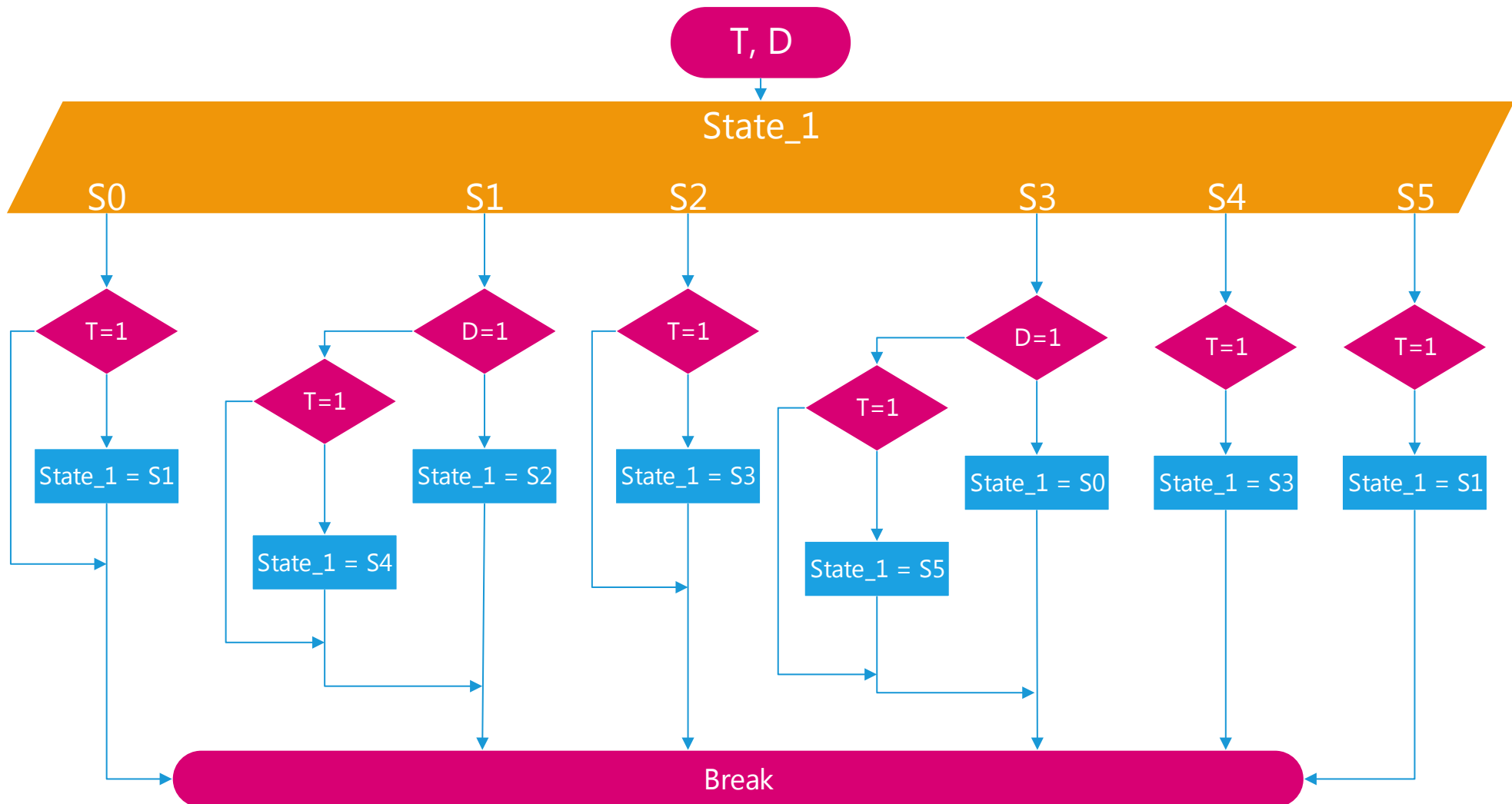


Legenda / Labels:

- S0 – Estado inicial / initial state (static state)
- S1 – A Abrir / opening (transition state)
- S2 – Completamente aberto / fully opened (static state)
- S3 – A fechar / closing (transition state)
- S4 – Parado quando abria / stop during opening (static state)
- S5 – Parado quando fechava / stop during closing (static state)

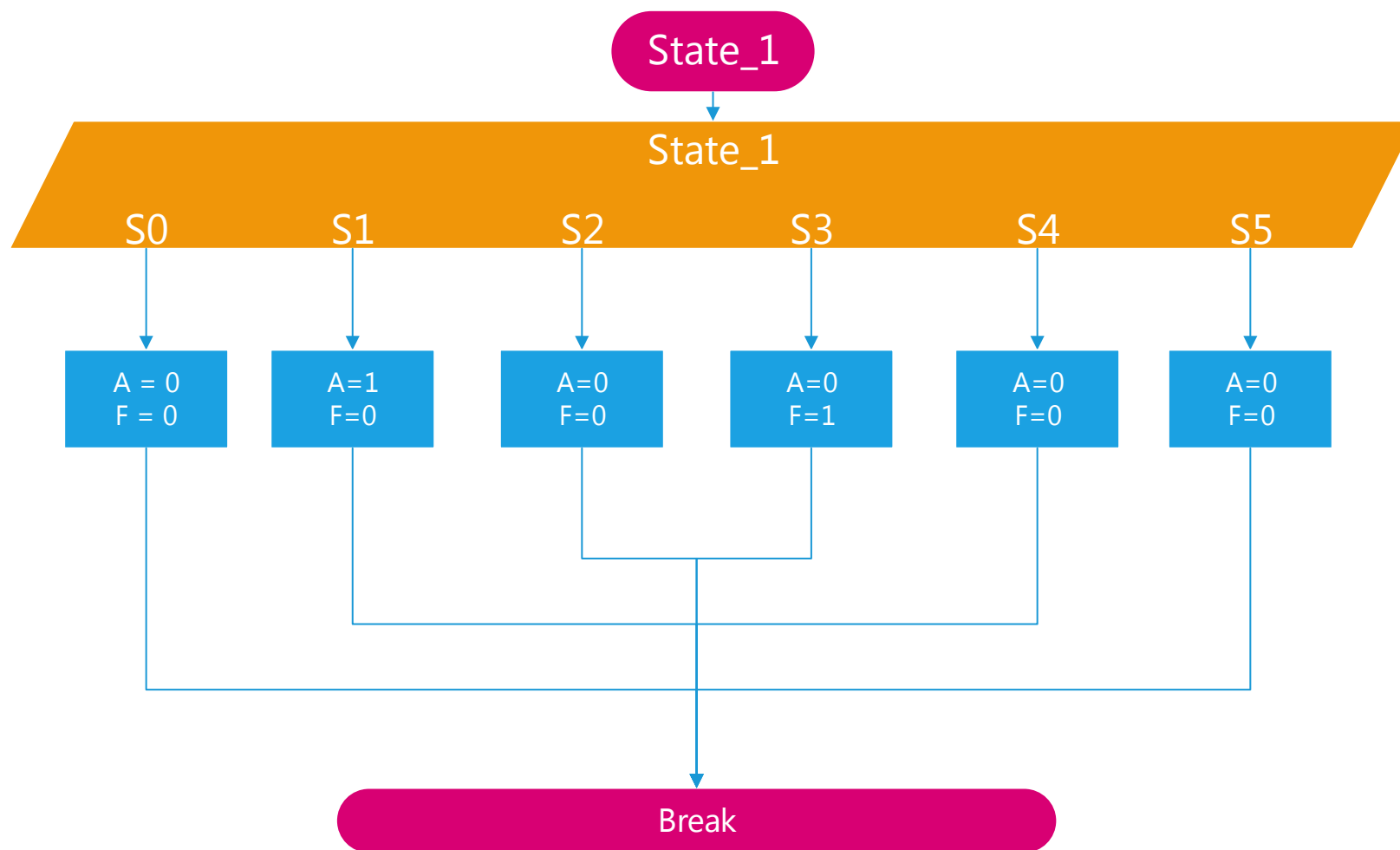
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Fluxograma / Flowchart FSM1- Motor next-state



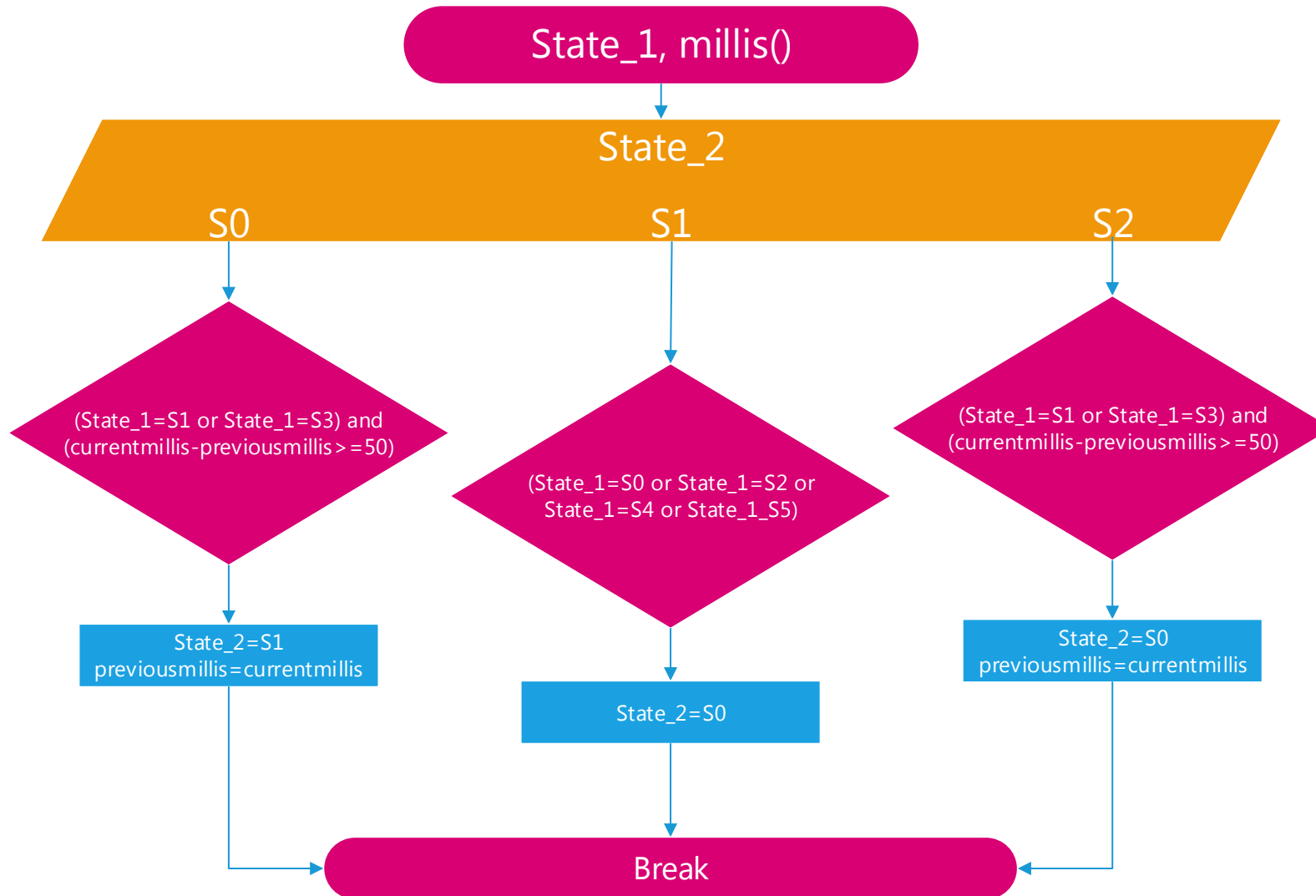
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Fluxograma / Flowchart FSM2-Motor Output



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Fluxograma / Flowchart FSM3-Blink light next-state



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Fluxograma / Flowchart FSM3-Blink light output

