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State Machine Diagram

Idle State:
wait for button
Press

↓ Button Press

Processing Message:
determine Message
(SOS or OK)

↓ Message Processing Start

Symbol Handling:

Symbol Start
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Symbol End

- **Start**: Determine if the current symbol is a dot or a dash, set LED, and apply delay.
- **End**: Turn off LED, apply delay for space between symbols.

↓ Symbol Complete

Between Parts:
Handle delays
between symbols

↓ Message Complete

Delay State:
delay before next
message or idle

↓ Delay Complete

Idle State:
wait for button
Press