Turnout State Diagram

Desired Direction State

Turnout Initialized → Left

Receive Right Command / Receive Left Command ↔ Right

Turnout Fail State

Turnout Initialized → Turnout Okay

Turnout Fail Received /Send Stop / Turnout Okay Received Send Go ↔ Turnout Fail

Turnout Initialized → Set Left

Set Left — Receive Command /Send Moving → Moving Left

Moving Left — Desired Position Reached /Send Set & Turnout Okay → Set Right

Moving Left — Desired Position Not Reached /Send Turnout Fail → Moving Right

Set Right — Receive Command /Send Moving → Moving Right

Moving Right — Desired Position Reached /Send Set & Turnout Okay → Set Left

Moving Right — Desired Position Not Reached /Send Turnout Fail → Moving Left