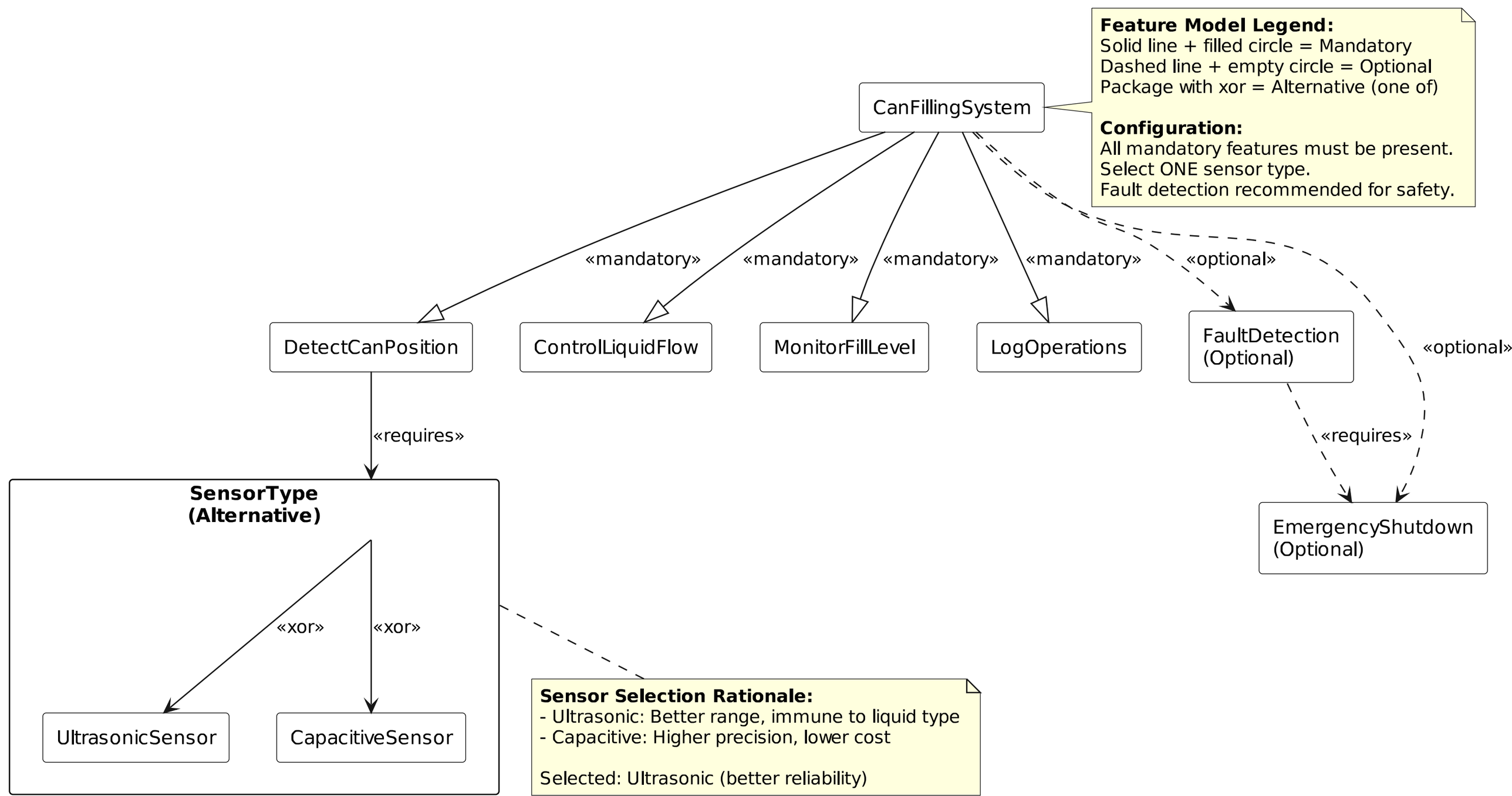
Feature Model Legend:
Solid line + filled circle = Mandatory
Dashed line + empty circle = Optional
Package with xor = Alternative (one of)
Configuration:
All mandatory features must be present.
Select ONE sensor type.
Fault detection recommended for safety.
CanFillingSystem
«mandatory»
«mandatory»
«mandatory»
«mandatory»
«optional»
«optional»
DetectCanPosition
ControlLiquidFlow
MonitorFillLevel
LogOperations
FaultDetection
(Optional)
«requires»
«requires»
SensorType
(Alternative)
«xor»
«xor»
UltrasonicSensor
CapacitiveSensor
EmergencyShutdown
(Optional)
Sensor Selection Rationale:
- Ultrasonic: Better range, immune to liquid type
- Capacitive: Higher precision, lower cost
Selected: Ultrasonic (better reliability)