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% Assumption: low and high alarm hysteresis regions do not overlap
HIGH LIMIT: TYPE =
  [ l: [tick -> real], eps: [tick -> posreal] ->
      \{ h: [tick -> real] \mid FORALL (t: tick): h(t) - eps(t) > l(t) + eps(t) \} \}
% Inputs
X, L : VAR [tick -> real]
EPS : VAR [tick -> posreal]
Н
          : VAR HIGH_LIMIT
% Outputs
QH, Q, QL : VAR [tick -> bool]
LIMITS_ALARM_fbd_impl (X, H, L, EPS, QH, Q, QL): bool =
  EXISTS (w1: [tick -> posreal]), (w2, w3: [tick -> real]):
      DIV(EPS, (LAMBDA (t: tick): 2.0), w1)
    & SUB(H(L, EPS), w1, w2)
    & ADD(L, w1, w3)
    & HYSTERESIS_tab_req(X, w2, w1, QH)
    & HYSTERESIS_tab_reg(w3, x, w1, QL)
    & DISJ(QH, QL, Q)
```