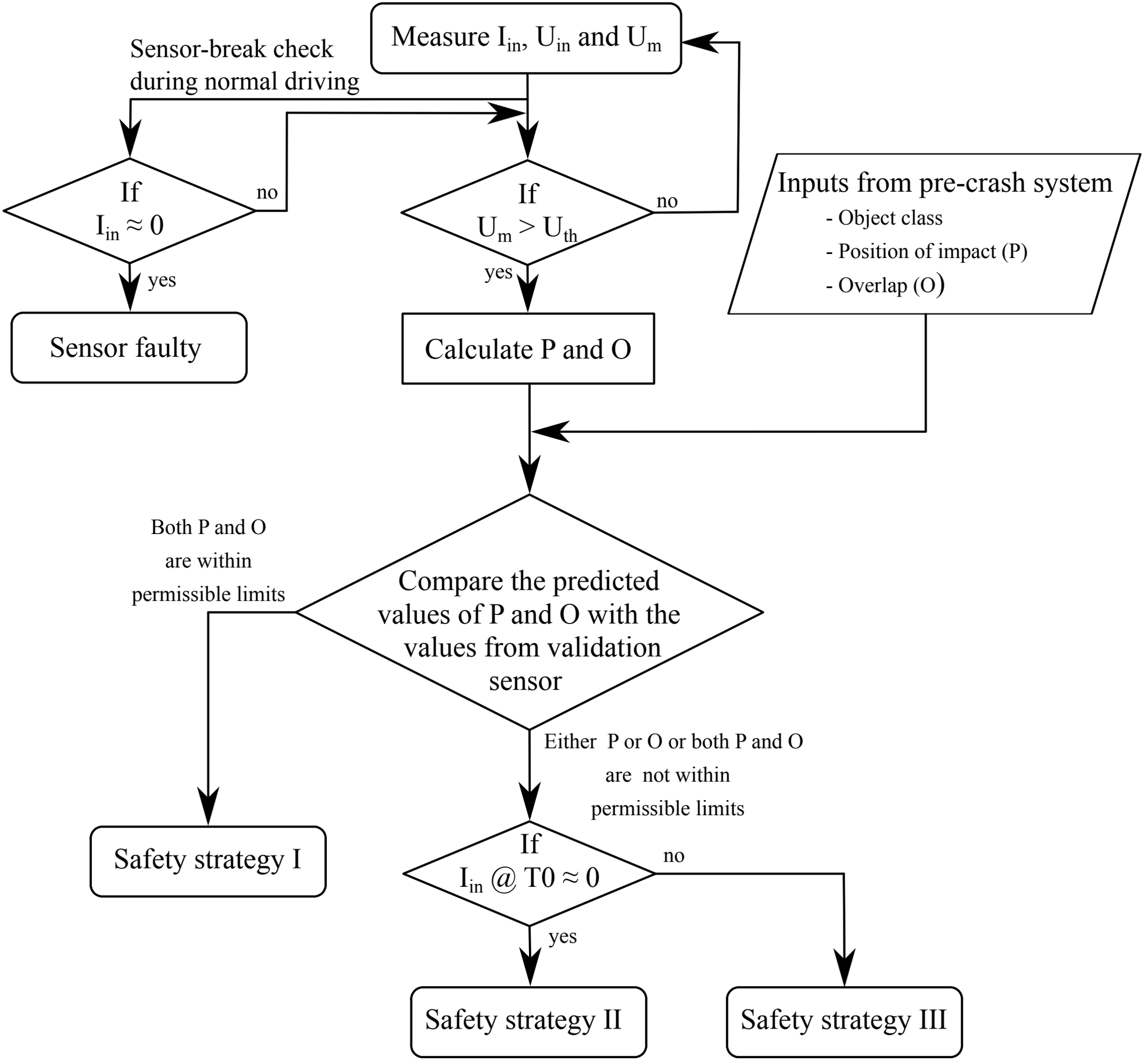
Measure I_{in}, U_{in} and U_m
Sensor-break check during normal driving
If $I_{in} \approx 0$
no
yes
Sensor faulty
If $U_m > U_{th}$
no
yes
Calculate P and O
Inputs from pre-crash system
- Object class
- Position of impact (P)
- Overlap (O)
Compare the predicted values of P and O with the values from validation sensor
Both P and O are within permissible limits
Safety strategy I
Either P or O or both P and O are not within permissible limits
If I_{in} @ T0 ≈ 0
no
yes
Safety strategy II
Safety strategy III