

```
1 CONTEXT
2   Robot_0_Ctx
3 EXTENDS
4   GenericCtx
5 CONSTANTS
6   SpeedLimit
7   CloseEnough
8   px0
9   py0
10  CriticalDistance
11 AXIOMS
12  axm1: SpeedLimit  $\in \mathbb{R}$ 
13  axm2:  $0 < \textit{SpeedLimit}$ 
14  axm3:  $px0 \in \mathbb{R}$ 
15  axm4:  $py0 \in \mathbb{R}$ 
16  axm5: CloseEnough  $\in \mathbb{R}$ 
17  axm6:  $0 < \textit{CloseEnough}$ 
18  axm7: CriticalDistance  $\in \mathbb{R}$ 
19  axm8:  $0 < \textit{CriticalDistance}$ 
20  axm9: CloseEnough  $< \textit{CriticalDistance}$ 
21  axm10:  $\textit{plannar\_distance}(px0 \mapsto py0, 0 \mapsto 0) \mapsto \textit{CriticalDistance} \in \textit{lt}$ 
22 END
```