4.2.2. Client Sensor Protocol

From server to client
(hear Time Sender "Message") (hear Time Online_Coach Coach_Language_Message)
Time ::= simulation cycle of the soccerserver
$Sender ::= online_coach_left online_coach_right coach referee self Direction$
Direction ::= $-180 \sim 180$ degrees
Message ::= string
$Online_Coach ::= online_coach_left online_coach_right$
$Coach_Language_Message ::=$ see the standard coach language section
(see Time ObjInfo ⁺)
Time ::= simulation cycle of the soccerserver
ObjInfo ::= (ObjName Distance Direction DistChange DirChange BodyFacingDir HeadFacingDir)
(ObjName Distance Direction DistChange DirChange
(ObjName Distance Direction)
(ObjName Direction)
$ObjName ::= (\mathbf{p} ["Teamname" [UniformNumber [goalie]]])$
$ (\mathbf{g} [\mathbf{l} \mathbf{r}])$
$ (\mathbf{f} \mathbf{c}) $
$ (\mathbf{r} \mathbf{c}) (\mathbf{f} [\mathbf{l} \mathbf{c} \mathbf{r}] [\mathbf{t} \mathbf{b}])$
$ (\mathbf{r} [\mathbf{l} \mathbf{r}] [\mathbf{l} \mathbf{r}]] (\mathbf{f} \mathbf{p} [\mathbf{l} \mathbf{r}] [\mathbf{t} \mathbf{c} \mathbf{b}])$
$ (\mathbf{r} \mathbf{p} [\mathbf{l} \mathbf{r}] [\mathbf{t} \mathbf{b}]) $
$ (\mathbf{r} \mathbf{g} [\mathbf{i} \mathbf{r}] [\mathbf{c} \mathbf{b}]) $ $ (\mathbf{f} [\mathbf{l} \mathbf{r} \mathbf{t} \mathbf{b}] 0)$
(f [t b] [l r] [10 20 30 40 50]) (f [t c]
(f [l r] [t b] [10 20 30])
(1 [l r t b])
(F)
(G)
(P)
Distance ::= positive real number
Direction ::= $-180 \sim 180$ degrees
DistChange ::= real number
DirChange ::= real number
$HeadFaceDir ::= -180 \sim 180$ degrees
$BodyFaceDir ::= -180 \sim 180$ degrees
Teamname ::= string
$UniformNumber ::= 1 \sim 11$
(sense_body Time
$(view_mode \{high \mid low\} \{narrow \mid normal \mid wide\})$
(stamina Stamina Effort)
(speed AmountOfSpeed DirectionOfSpeed)
(head_angle HeadAngle)
(kick KickCount)
(dash DashCount)
(turn TurnCount)
(say SayCount)
(turn_neck TurnNeckCount)
(catch CatchCount)
(move MoveCount)
(change_view ChangeViewCount))
Time ::= simulation cycle of the soccerserver
Stamina ::= positive real number
Effort ::= positive real number
AmountOfSpeed ::= positive real number
DirectionOfSpeed ::= $-180 \sim 180$ degrees
$HeadAngle ::= -180 \sim 180 \text{ degrees}$ *Count ::= positive integer 25
*Count ::= positive integer 25