	name	symbol	value	unit	source	explanation
0	size					Number of agents
1	shape					Shape for arrays
2	three_circles_flag					Boolean indicating if agent is modeled
						with three circle model
3	orientable_flag					Boolean indicating if agent is orientable
4	active					Boolean indicating if agent is active
5	goal_reached					Boolean indicating if goal is reahed
6	mass	m		kg	fds+evac	Mass
7	radius	r		m	fds+evac	Radius
8	r_t	$r_t$		m	fds+evac	Radius of torso
9	r_s	$r_s$		m	fds+evac	Radius of shoulder
10	r_ts	$r_{ts}$		m	fds+evac	Distance from torso to shoulder
11	position	x		m	ias į evae	Position
12	velocity	$\stackrel{x}{v}$				Velocity
13	target_velocity		5	$\frac{\mathbf{m}}{\mathbf{s}}$		Target velocity
14		$v_0$	9	s		Target direction
15	<pre>target_direction force</pre>	e		N		Force
$\frac{16}{16}$	force_adjust	f -		N		Adjusting force
17	_ •	$f_{adj}$		N		Agent to agent force
18	force_agent	$f_{agent}$		N		Agent to agent force Agent to wall force
19	force_wall	$f_{wall}$	4	$m^2 kg$	fds+evac	Rotational moment
	inertia_rot	$I_{rot}$		_	ius+evac	
20	angle	$\varphi$	$[-\pi,\pi]$	$_{ m rad}$		Angle
21	angular_velocity	$\omega$	г	s		Angular velocity
22	target_angle	$\varphi_0$	$[-\pi,\pi]$	$_{rac{\mathrm{rad}}{}}$	C.1 .	Target angle
23	target_angular_velocity	$\omega_0$	$4\pi$	s	fds+evac	Target angular velocity
24	torque	M		N m		Torque
25	position_ls	$x_{ls}$		m		Position of the left shoulder
26	position_rs	$x_{rs}$		m		Position of the right shoulder
27	front	$x_{front}$		m		Position of the front
28	tau_adj	$ au_{adj}$	0.5	S	fds+evac	Characteristic time for agent adjusting its movement
29	tau_adj_rot	$ au_{adjrot}$	0.2	$\mathbf{S}$	fds+evac	Characteristic time for agent adjusting its
		-				rotational movement
30	k	k	1.5	N	power law	Social force scaling constant
31	tau_0	$ au_0$	3	$\mathbf{S}$	power law	Interaction time horizon
32	mu	$\mu$	12000	$\frac{\frac{\text{kg}}{\text{s}^2}}{\frac{\text{kg}}{\text{m s}}}$	fds+evac	Compression counteraction constant
33	kappa	$\kappa$	40000	kg	fds+evac	Sliding friction constant
34	damping	$c_d$	500	$\overset{\mathrm{m}\mathrm{s}}{\mathrm{N}}$	fds+evac	Damping coefficient for contact force
35	a	$\stackrel{\circ a}{A}$	2000	N	helbing	Scaling coefficient for social force
36	b	B	0.08	m	helbing	Coefficient for social force
37	std_rand_force	$\xi/m$	0.1		fds+evac	Standard deviation for random force from
		-,				truncated normal distribution
38	std_rand_torque	$\eta/I_{rot}$	0.1		fds+evac	Standard deviation for random torque from truncated normal distribution
39	f_soc_ij_max		2000	N		Truncation for social force with agent to
						agent interaction
40	f_soc_iw_max		2000	N		Truncation for social force with agent to
						wall interaction
41	sight_soc		7	$\mathbf{m}$		Maximum distance for social force to effect
42	sight_wall		7	m		Maximum distance for social force to effect

	name	adult	male	female	child	eldery	symbol	explanation
0	radius	0.255	0.27	0.24	0.21	0.25	r	Total radius of the agent
1	dr	0.035	0.02	0.02	0.015	0.02	dr	Difference bound for total radius
2	k_t	0.5882	0.5926	0.5833	0.5714	0.6	$k_t$	Ratio of total radius and radius torso
3	k_s	0.3725	0.3704	0.375	0.3333	0.36	$k_s$	Ratio of total radius and radius shoulder
4	k_ts	0.6275	0.6296	0.625	0.6667	0.64	$k_{ts}$	Ratio of total radius and distance from torso
								to shoulder
5	V	1.25	1.35	1.15	0.9	0.8	v	Walking speed of agent
6	dv	0.3	0.2	0.2	0.3	0.3	dv	Difference bound for walking speed
7	mass	73.5	80.0	67.0	57.0	70.0	m	Mass of an agent
8	mass_scale	8.0	8.0	6.7	5.7	7.0	dm	Standard deviation of mass of the agent

$\overline{r}$	m		Total radius
$r_t$	m		Torso radius
$r_s$	m		Shoulder radius
$r_{ts}$	m		Distance from torso to shoulder
m	kg	80	Mass
I	$kg \cdot m^2$	4.0	Rotational moment
x	m		Position
v	m/s		Velocity
$v_0$	m/s		Goal velocity
$\hat{\mathbf{e}}_0$			Goal direction
$\hat{\mathbf{e}}$			Target direction
$\overline{\varphi}$	rad	$[-\pi,\pi]$	Body angle
$\omega$	rad/s		Angular velocity
$arphi_0$	rad	$[-\pi,\pi]$	Target angle
$\omega_0$	rad/s	$0.4\pi$	Max angular velocity
$\tilde{\mathbf{x}} = \mathbf{x}_i - \mathbf{x}_j$	Relative position		
$ ilde{\mathbf{v}} = \mathbf{v}_i - \mathbf{v}_j$	Relative velocity		
$d = \ \tilde{\mathbf{x}}\ $	Distance		
$\hat{\mathbf{n}} = \tilde{\mathbf{x}}/d$	Normal vector		
$\hat{\mathbf{t}} = R(-90^\circ) \cdot \hat{\mathbf{n}}$	Tangent vector		