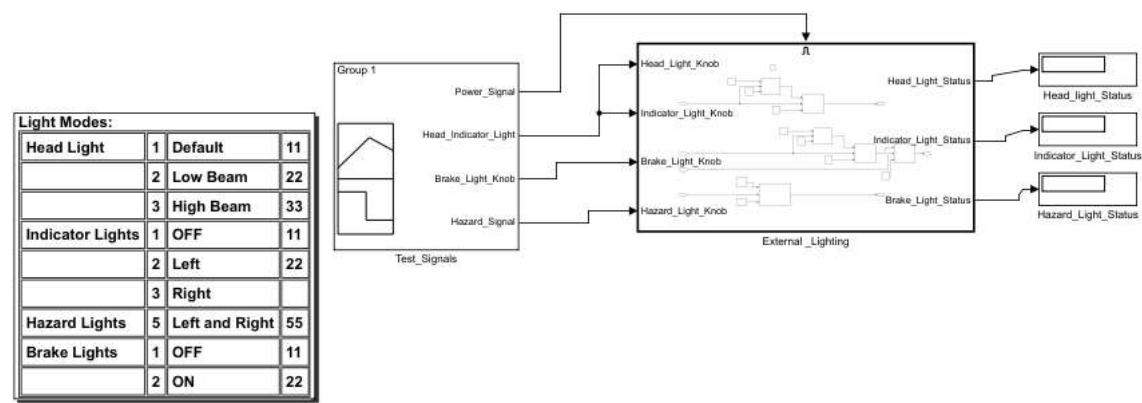


BCM_MBD_External_Lighting



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18-Dec-2020 14:33:35

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Model - BCM_MBD_External_Lighting

Full Model Hierarchy

- [BCM_MBD_External_Lighting](#)
 - [External_Lighting](#)

Simulation Parameter	Value
Solver	VariableStepAuto
RelTol	1e-3
Refine	1
MaxOrder	5
ZeroCross	on

[\[more info\]](#)

System - BCM_MBD_External_Lighting

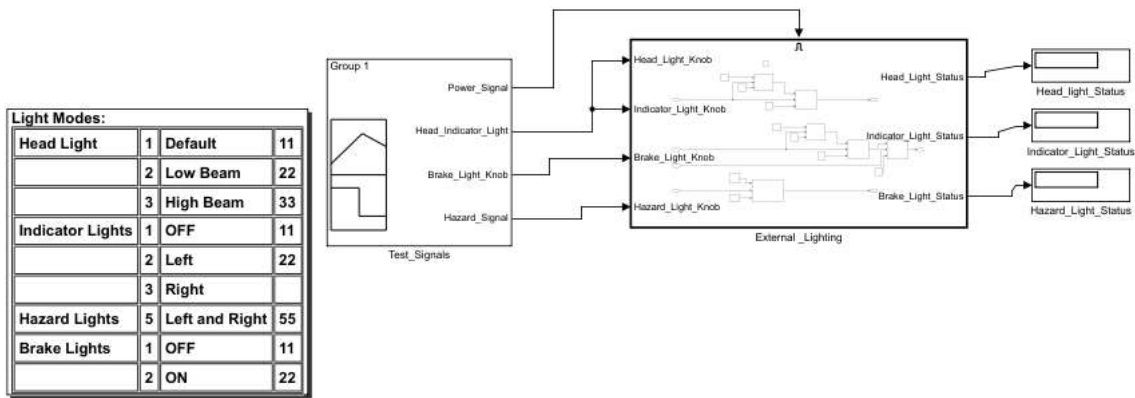


Table 1. Display Block Properties

Name	Format	Decimation	Floating
Hazard_Light_Status	short	1	off
Head_light_Status	short	1	off
Indicator_Light_Status	short	1	off

Table 2. Sigbuilder block Block Properties

Name
Test_Signals

System - [BCM MBD External Lighting](#)/External_Lighting

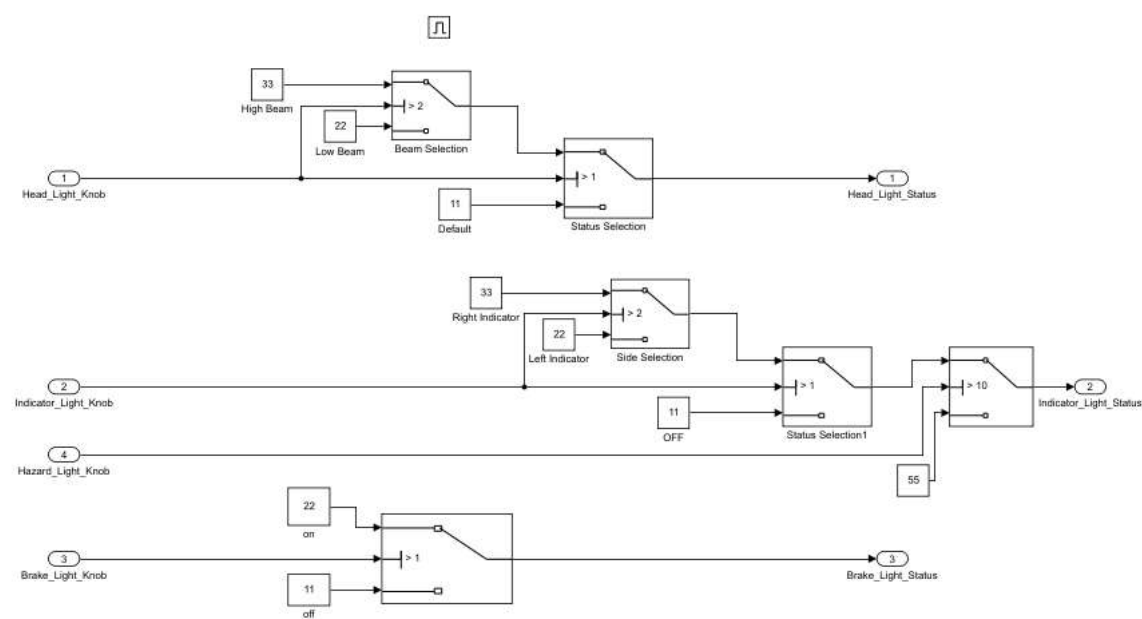


Table 3. Constant Block Properties

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
Constant	55	Inherit: Inherit from 'Constant value'	off	inf	inf
Default	11	Inherit: Inherit from 'Constant value'	off	inf	inf
High Beam	33	Inherit: Inherit from 'Constant value'	off	inf	inf
Left Indicator	22	Inherit: Inherit from 'Constant value'	off	inf	inf
Low Beam	22	Inherit: Inherit from 'Constant value'	off	inf	inf
OFF	11	Inherit: Inherit from 'Constant value'	off	inf	inf
off	11	Inherit: Inherit from 'Constant value'	off	inf	inf

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
on	22	Inherit: Inherit from 'Constant value'	off	inf	inf
Right Indicator	33	Inherit: Inherit from 'Constant value'	off	inf	inf

Table 4. EnablePort Block Properties

Name	States When Enabling	Propagate Var Size	Show Output Port	Zero Cross	Port Dimensions	Out Data Type Str	Interpolate
Enable	held	Only when enabling	off	on	1	double	on

Table 5. Inport Block Properties

Name	Port	Defined In Blk
Brake_Light_Knob	3	Demux
Hazard_Light_Knob	4	Demux
Head_Light_Knob	1	Demux
Indicator_Light_Knob	2	Demux

Table 6. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Output Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Unconnected	Output When Unconnected Value	Vector Params As 1D For Out When Unconnected	Used By Blk
Brake_Light_Status	3	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Hazard_Light_Stat
Head_Light_Status	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Head_light_Status
Indicator_Light_Status	2	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Indicator_Light_St

Table 7. Switch Block Properties

Name	Criteria	Threshold	Input Same DT	Out Data Type Str	Lock Scale	Rnd Meth	Saturate On Integer Overflow	Zero Cross	Allow Diff Input Sizes
Beam Selection	u2 > Threshold	2	off	Inherit: Inherit via internal rule	off	Floor	off	on	off
Side Selection	u2 > Threshold	2	off	Inherit: Inherit via internal rule	off	Floor	off	on	off
Status Selection	u2 > Threshold	1	off	Inherit: Inherit via internal rule	off	Floor	off	on	off
Status Selection1	u2 > Threshold	1	off	Inherit: Inherit via internal rule	off	Floor	off	on	off
Switch	u2 > Threshold	1	off	Inherit: Inherit via internal rule	off	Floor	off	on	off
Switch1	u2 > Threshold	10	off	Inherit: Inherit via internal rule	off	Floor	off	on	off

Appendix

Table 8. Block Type Count

BlockType	Count	Block Names
Constant	9	Constant , Default , High Beam , Left Indicator , Low Beam , OFF , Right Indicator , off , on
Switch	6	Beam Selection , Side Selection , Status Selection , Status Selection1 , Switch , Switch1
Inport	4	Brake_Light_Knob , Hazard_Light_Knob , Head_Light_Knob , Indicator_Light_Knob
Outport	3	Brake_Light_Status , Head_Light_Status , Indicator_Light_Status
Display	3	Hazard_Light_Status , Head_light_Status , Indicator_Light_Status
SubSystem	1	External_Lighting
Sigbuilder block (m)	1	Test_Signals
EnablePort	1	Enable