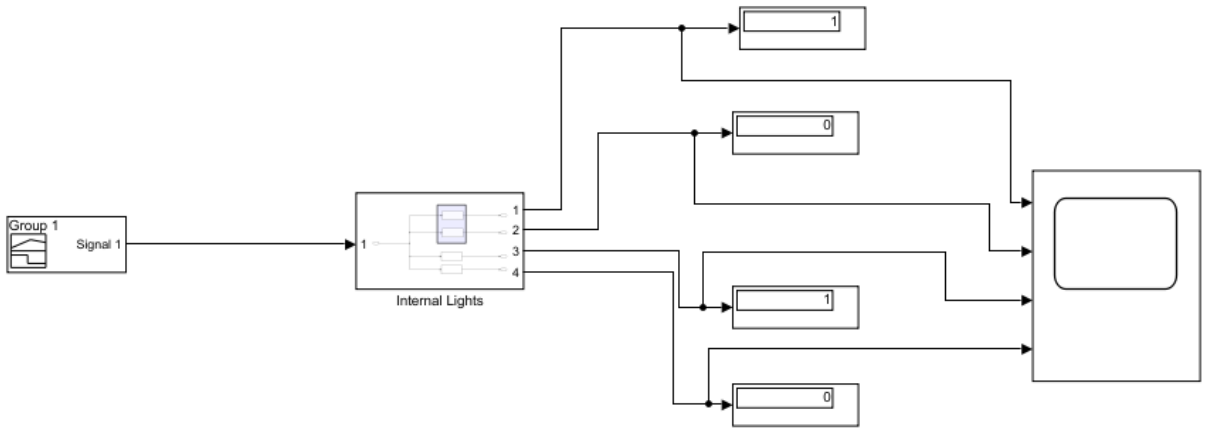
internalights



training

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Model - internalights

Full Model Hierarchy

1. internalights
    1. Internal Lights
        1. LOW BATTERY
        2. OVERHEAD LIGHT
        3. OVERHEAT
        4. cabin lights

Simulation Parameter	**Value**
Solver	FixedStepAuto
RelTol	1e-3
Refine	1

Simulation Parameter	Value
MaxOrder	5
FixedStep	0.1
ZeroCross	on

[more info]

System - internalights

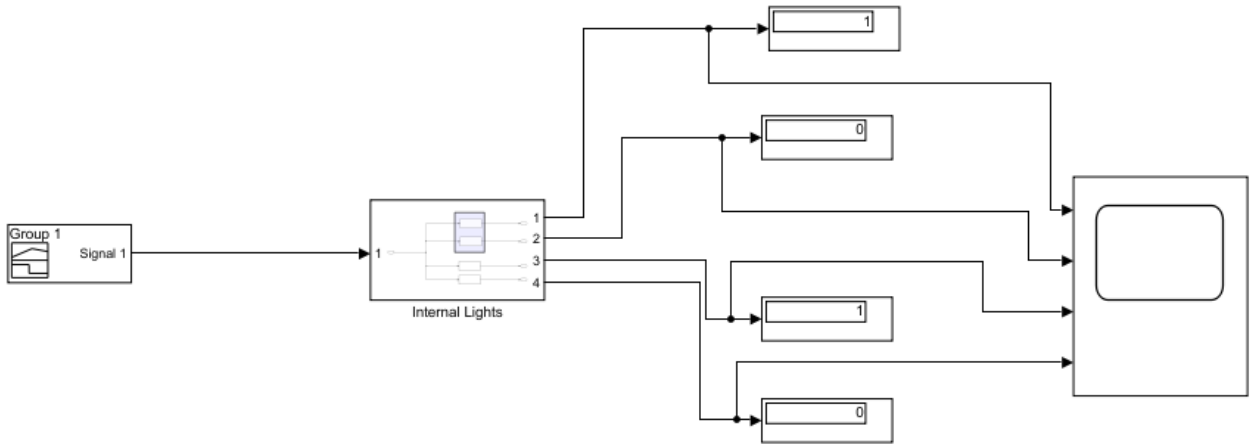


Table 1. Display Block Properties

Name	Format	Decimation	Floating
Display	short	1	off
Display1	short	1	off
Display2	short	1	off
Display3	short	1	off

Table 2. Sigbuilder block Block Properties

Name
Signal Builder

System - internalights/Internal Lights

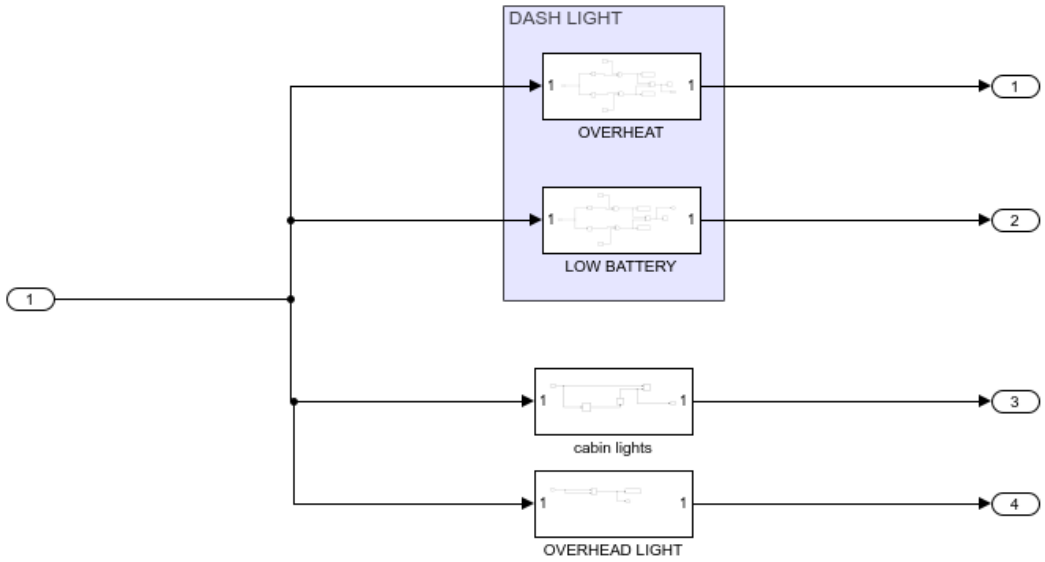


Table 3. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 4. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0
Out2	2	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0
Out3	3	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value
Out4	4	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0

System - internalights/Internal Lights/LOW BATTERY

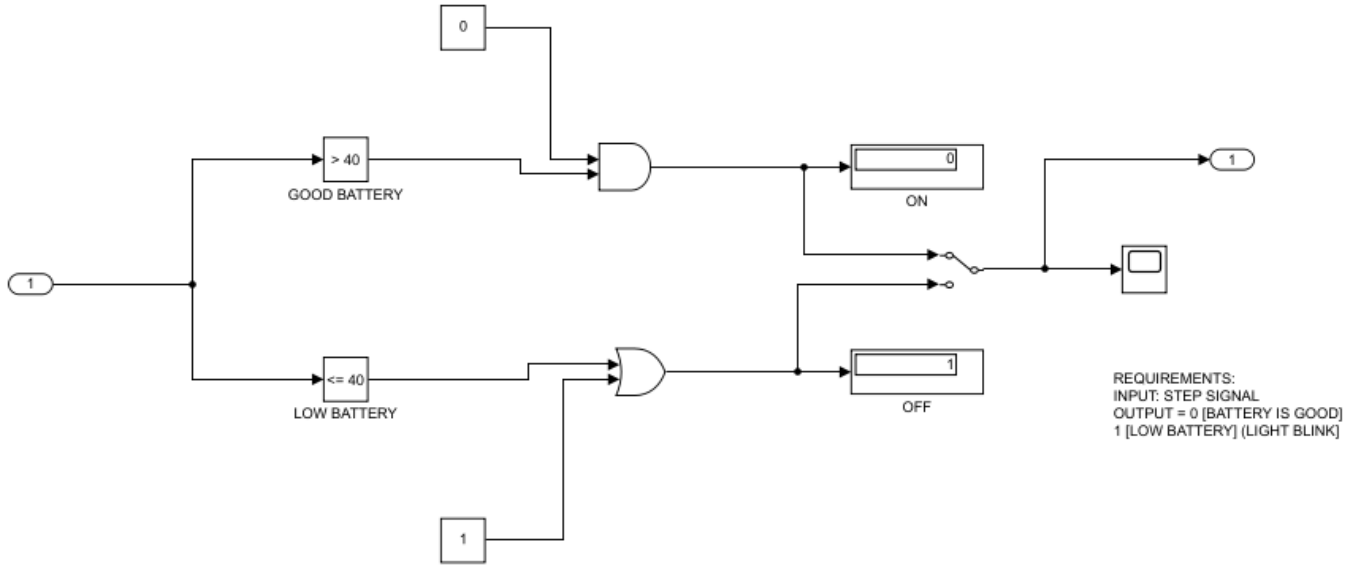


Table 5. Compare To Constant Block Properties

Name	Relop	Const	Out Data Type Str	Zero Cross
GOOD BATTERY	>	40	boolean	on
LOW BATTERY	<=	40	boolean	on

Table 6. Constant Block Properties

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
Constant	0	Inherit: Inherit from 'Constant value'	off	inf	inf
Constant1	1	Inherit: Inherit from 'Constant value'	off	inf	inf

Table 7. Display Block Properties

Name	Format	Decimation	Floating
OFF	short	1	off
ON	short	1	off

Table 8. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 9. Logic Block Properties

Name	Operator	Inputs	Icon Shape	All Ports Same DT	Out Data Type Str
AND	AND	2	distinctive	off	boolean
OR	OR	2	distinctive	off	boolean

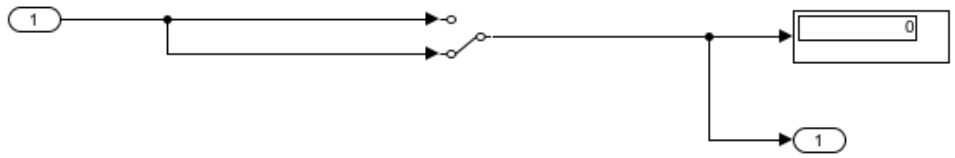
Table 10. ManualSwitch Block Properties

Name	Varsize
Manual Switch	off

Table 11. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0

System - internalights/Internal Lights/OVERHEAD LIGHT



REQUIREMENTS:
INPUT= 1,0
OUTPUT = ON,OFF
LOGIC = SWITCHING CIRCUIT

Table 12. Display Block Properties

Name	Format	Decimation	Floating
Display	short	1	off

Table 13. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 14. ManualSwitch Block Properties

Name	Varsize
Manual Switch	off

Table 15. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0

System - internalights/Internal Lights/OVERHEAT

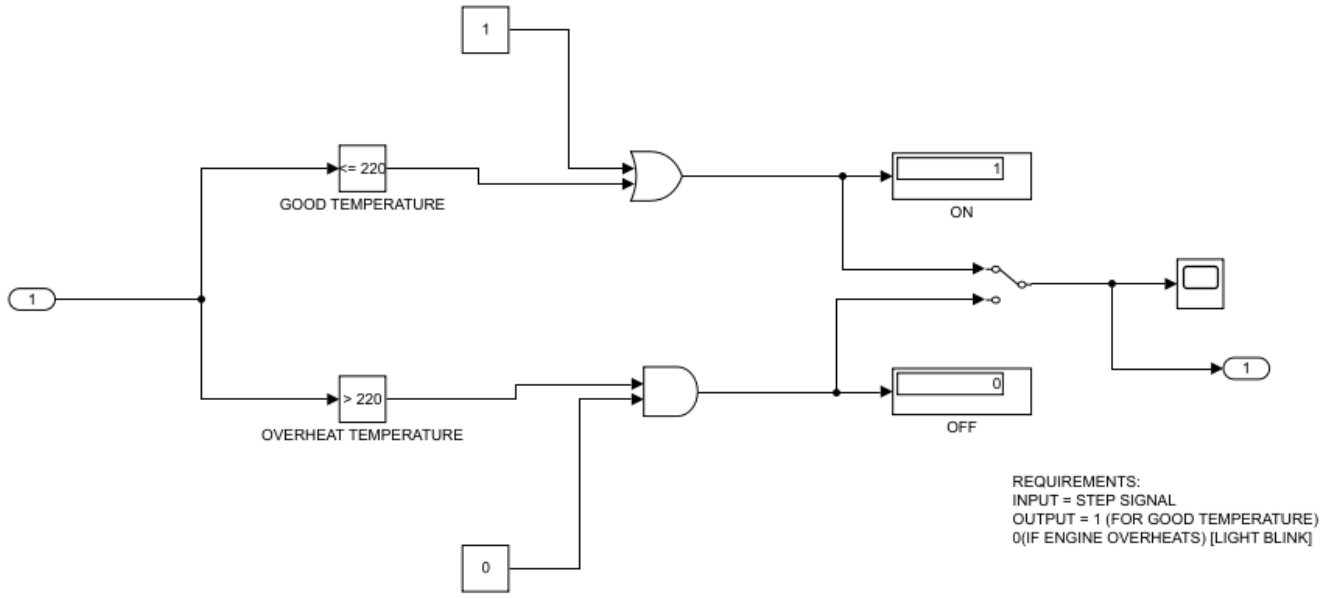


Table 16. Compare To Constant Block Properties

Name	Relop	Const	Out Data Type Str	Zero Cross
GOOD TEMPERATURE	<=	220	boolean	on
OVERHEAT TEMPERATURE	>	220	boolean	on

Table 17. Constant Block Properties

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
Constant	1	Inherit: Inherit from 'Constant value'	off	inf	inf
Constant1	0	Inherit: Inherit from 'Constant value'	off	inf	inf

Table 18. Display Block Properties

Name	Format	Decimation	Floating
OFF	short	1	off
ON	short	1	off

Table 19. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 20. Logic Block Properties

Name	Operator	Inputs	Icon Shape	All Ports Same DT	Out Data Type Str
AND	AND	2	distinctive	off	boolean

Name	Operator	Inputs	Icon Shape	All Ports Same DT	Out Data Type Str
OR	OR	2	distinctive	off	boolean

Table 21. ManualSwitch Block Properties

Name	Varsize
Manual Switch	off

Table 22. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport 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 1DFor Out When Unconnected	Used By Blk
Out 1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope, Display, Scope

System - internalights/Internal Lights/cabin lights

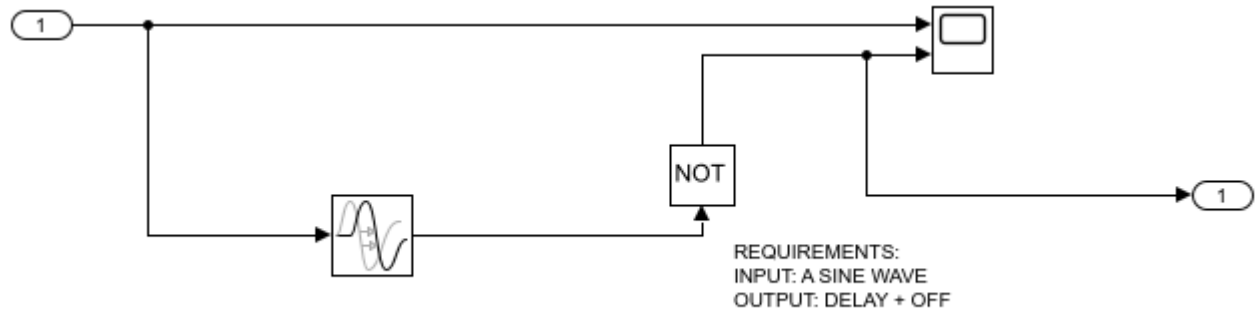


Table 23. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 24. Logic Block Properties

Name	Operator	Inputs	Icon Shape	All Ports Same DT	Out Data Type Str
NOT	NOT	2	rectangular	off	boolean

Table 25. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport 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 1DFor Out When Unconnected	Used By Blk
Out 1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope, Display2, Scope1

Table 26. TransportDelay Block Properties

Name	Delay Time	Initial Output	Buffer Size	Fixed Buffer	Trans Delay Feedthrough	Pade Order
Transport Delay1	3	0	1024	off	off	0

Appendix

Table 27. Block Type Count

BlockType	Count	Block Names
Display	9	Display, Display1, Display2, Display3, OFF, ON, Display, OFF, ON
Outport	8	Out1, Out1, Out1, Out1, Out2, Out3, Out4, Out1
SubSystem	5	Internal Lights, LOW BATTERY, OVERHEAD LIGHT, OVERHEAT, cabin lights
Logic	5	AND, OR, AND, OR, NOT
Inport	5	In1, In1, In1, In1, In1
Scope	4	Scope, Scope, Scope1, Scope
Constant	4	Constant, Constant1, Constant, Constant1
Compare To Constant (m)	4	GOOD BATTERY, LOW BATTERY, GOOD TEMPERATURE, OVERHEAT TEMPERATURE
ManualSwitch	3	Manual Switch, Manual Switch, Manual Switch
TransportDelay	1	Transport Delay1
Sigbuilder block (m)	1	Signal Builder