

## General

**Name** ThrSafe  
**Model Image** NavLights.png  
**Throttle** **Source:** THR **Trim idle only:** No **Warning:** Yes **Reversed:** No  
**Trims** **Step:** Fine **Display:** Never **Extended:** No  
**Center Beep** None  
**Switch Warnings** SA↓ SB↓ SC↓ SD↓ SE↓ SF↓ SG↓  
**Pot Warnings** **Mode:** OFF  
**Other** **Extended Limits:** No **Display Checklist:** Yes **Global Functions:** Yes

**Checklist** ThrSafe  
  
 Mixes  
 CH1:Thro  
 MAX Weight(-100%) NoTrim [ThrCut]  
 := I1:Thr Weight(+100%) Switch(L64) NoTrim [ThrAct]  
  
 Logical Switches  
 L52 ( Ail ~ -100 ) AND SwHâ†  
 L53 ( Rud ~ -100 ) AND L56  
 L54 ( L53 AND L52 ) AND L56  
 L55 Sticky(L54, L61) --Thr.DisAbled  
 L56 ( Elv ~ -100 ) AND SwHâ†  
 L57 ( Thr ~ -100 ) AND L56  
 L58 ( Ail ~ 100 ) AND L57  
 L59 ( Rud ~ 100 ) AND L58  
 L60 L59 AND SwFâ†  
 L61 Sticky(L60, L56) -- Thr. Rnabled  
 L62 ( Thr ~ -100 ) AND L61  
 L63 ( L62 OR L63 ) AND SwFâ†

L64 Sticky(L63, L56) -- Thr.Armed if true ELSE Thr.DisArmed

#### Special Functions

SF61 !L62 - Play Track (ThrDis) No repeat --Throttle

SF62 L62 - Play Track (ThrEnb) No repeat

SF63 L64 - Play Track (ThrArm) No repeat

SF64 !L64 - Play Track (ThrCut) No repeat

| Timers          | Time     | Mode  | Switch | Countdown | Start | Min.call | Persist |                |
|-----------------|----------|-------|--------|-----------|-------|----------|---------|----------------|
| <b>TMR1:Flt</b> | 00:00:00 | Start | ----   | Silent    |       | No       | NOT     | Show Remaining |
| <b>TMR2:Thr</b> | 00:00:00 | THs   | ----   | Silent    |       | No       | NOT     | Show Remaining |
| <b>TMR3</b>     | 00:00:00 | OFF   | ----   | Silent    |       | No       | NOT     | Show Remaining |

## Modules

**Internal Radio System** **Protocol:** Multi **Channels:** 1-8 **Receiver:** 62 **Radio protocol:** DSM **Subtype:** Auto **Option value:** 0

**External Radio Module** **Protocol:** OFF

**Trainer port** **Mode:** OFF

## Flight modes

| Flight mode           | Switch | F.In | F.Out | TrmR | TrmE | TrmT | TrmA | Trm5 | Trm6 |
|-----------------------|--------|------|-------|------|------|------|------|------|------|
| <b>FM0:NotPossibl</b> | ----   | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    |
| <b>FM1:DeanC</b>      | 6P_6   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM2:MikeS</b>      | 6P_1   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM3</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM4</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM5</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM6</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM7</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |
| <b>FM8</b>            | ----   | 0    | 0     | FM0  | FM0  | FM0  | FM0  | FM0  | FM0  |

| <b>Global vars</b>    | <b>GV1</b>                                      | <b>GV2</b> | <b>GV3</b> | <b>GV4</b> | <b>GV5</b> | <b>GV6</b> | <b>GV7</b> | <b>GV8</b> | <b>GV9</b> |
|-----------------------|-------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Name</b>           | Thr                                             |            |            |            |            |            |            |            |            |
| <b>Unit</b>           |                                                 |            |            |            |            |            |            |            |            |
| <b>Prec</b>           | 0._                                             | 0._        | 0._        | 0._        | 0._        | 0._        | 0._        | 0._        | 0._        |
| <b>Min</b>            | -1024                                           | -1024      | -1024      | -1024      | -1024      | -1024      | -1024      | -1024      | -1024      |
| <b>Max</b>            | 1024                                            | 1024       | 1024       | 1024       | 1024       | 1024       | 1024       | 1024       | 1024       |
| <b>Popup</b>          | N                                               | N          | N          | N          | N          | N          | N          | N          | N          |
| <b>Flight mode</b>    |                                                 |            |            |            |            |            |            |            |            |
| <b>FM0:NotPossibl</b> | 1                                               | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| <b>FM1:DeanC</b>      | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM2:MikeS</b>      | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM3</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM4</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM5</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM6</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM7</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>FM8</b>            | FM0                                             | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        | FM0        |
| <b>Inputs</b>         |                                                 |            |            |            |            |            |            |            |            |
| <b>I1:Thr</b>         | Thr Weight(+100%) [Thr]                         |            |            |            |            |            |            |            |            |
| <b>I2:Rud</b>         | Rud Weight(+60%) Expo(20%) Switch(SA↓) [Rud Lo] |            |            |            |            |            |            |            |            |
|                       | Rud Weight(+80%) Expo(20%) Switch(SA-) [RudMid] |            |            |            |            |            |            |            |            |
|                       | Rud Weight(+100%) Expo(20%)                     |            |            |            |            |            |            |            |            |
| <b>I3:Ele</b>         | Ele Weight(+60%) Expo(10%) Switch(SA↓) [LoRate] |            |            |            |            |            |            |            |            |
|                       | Ele Weight(+80%) Expo(10%) Switch(SA-) [MidRat] |            |            |            |            |            |            |            |            |
|                       | Ele Weight(+100%) Expo(10%) [El Hi]             |            |            |            |            |            |            |            |            |
| <b>I4:Ail</b>         | Ail Weight(+60%) Expo(10%) Switch(SA↓) [LoRate] |            |            |            |            |            |            |            |            |
|                       | Ail Weight(+80%) Expo(10%) Switch(SA-) [MidRat] |            |            |            |            |            |            |            |            |

|                                     |                                                                                                                                                                               |         |         |        |       |      |        |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------|-------|------|--------|
| Ail Weight(+100%) Expo(10%) [Al Hi] |                                                                                                                                                                               |         |         |        |       |      |        |
| Mixers                              |                                                                                                                                                                               |         |         |        |       |      |        |
| CH1:Throtl                          | MAX Weight(-100%) NoTrim [ThrCut]<br>:= I1:Thr Weight(+100%) Flight mode(FM1:DeanC) Switch(L64) [ThrAm]<br>:= I1:Thr Weight(+100%) Flight mode(FM2:MikeS) Switch(L06) [ThrAm] |         |         |        |       |      |        |
| CH2:Ailron                          | I4:Ail Weight(+100%)                                                                                                                                                          |         |         |        |       |      |        |
| CH3:Elevat                          | I3:Ele Weight(+100%)                                                                                                                                                          |         |         |        |       |      |        |
| CH4:Rudder                          | I2:Rud Weight(+100%)                                                                                                                                                          |         |         |        |       |      |        |
| CH8                                 | 6P Weight(+100%) [6P]                                                                                                                                                         |         |         |        |       |      |        |
| Outputs                             |                                                                                                                                                                               |         |         |        |       |      |        |
| Channel                             | Subtrim                                                                                                                                                                       | Min     | Max     | Direct | Curve | PPM  | Linear |
| CH1:Throtl                          | +0.0%                                                                                                                                                                         | -100.0% | +100.0% | NOR    | ----  | 1500 | N      |
| CH2:Ailron                          | +0.0%                                                                                                                                                                         | -100.0% | +100.0% | NOR    | ----  | 1500 | N      |
| CH3:Elevat                          | +0.0%                                                                                                                                                                         | -100.0% | +100.0% | NOR    | ----  | 1500 | N      |
| CH4:Rudder                          | +0.0%                                                                                                                                                                         | -100.0% | +100.0% | NOR    | ----  | 1500 | N      |
| CH8                                 | +0.0%                                                                                                                                                                         | -100.0% | +100.0% | NOR    | ----  | 1500 | N      |
| Logical Switches                    |                                                                                                                                                                               |         |         |        |       |      |        |
| L1                                  | ( Ail > 90 ) AND L02                                                                                                                                                          |         |         |        |       |      |        |
| L2                                  | ( Rud > 90 ) AND L03                                                                                                                                                          |         |         |        |       |      |        |
| L3                                  | ( Ele < -90 ) AND L04                                                                                                                                                         |         |         |        |       |      |        |
| L4                                  | ( Thr < -90 ) AND L05                                                                                                                                                         |         |         |        |       |      |        |
| L5                                  | Edge(SF↑, [0:instant])                                                                                                                                                        |         |         |        |       |      |        |
| L6                                  | Sticky(L01, L07)                                                                                                                                                              |         |         |        |       |      |        |
| L7                                  | SF↓ AND ----                                                                                                                                                                  |         |         |        |       |      |        |
| L52                                 | ( Ail ~ -100 ) AND SH↓                                                                                                                                                        |         |         |        |       |      |        |
| L53                                 | ( Rud ~ -100 ) AND L52                                                                                                                                                        |         |         |        |       |      |        |

|            |                         |
|------------|-------------------------|
| <b>L54</b> | ( L53 AND L52 ) AND L56 |
| <b>L55</b> | Sticky(L54, L61)        |
| <b>L56</b> | ( Ele ~ -100 ) AND SH↓  |
| <b>L57</b> | ( Thr ~ -100 ) AND L56  |
| <b>L58</b> | ( Ail ~ 100 ) AND L57   |
| <b>L59</b> | ( Rud ~ 100 ) AND L58   |
| <b>L60</b> | L59 AND SF↓             |
| <b>L61</b> | Sticky(L60, L56)        |
| <b>L62</b> | ( Thr < -97 ) AND L61   |
| <b>L63</b> | ( L62 OR L63 ) AND SF↑  |
| <b>L64</b> | Sticky(L63, L56)        |

## Special Functions

|             |                                      |
|-------------|--------------------------------------|
| <b>SF1</b>  | One - Play Track (ThrSaf) No repeat  |
| <b>SF61</b> | L55 - Play Track (ThrDsb) No repeat  |
| <b>SF62</b> | L61 - Play Track (ThrEnb) No repeat  |
| <b>SF63</b> | L64 - Play Track (ThrACn) No repeat  |
| <b>SF64</b> | !L64 - Play Track (ThrCut) No repeat |

## Telemetry

|                      |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protocol</b>      | FrSky S.PORT                                                                                                                         |
| <b>RSSI Alarms</b>   | Low: < 45; Critical: < 42; <b>Telemetry audio:</b> Enable                                                                            |
| <b>Altimetry</b>     | <b>Vario source:</b> ----                                                                                                            |
|                      | <b>Vario limits &gt; Sink max:</b> -10; <b>Sink min:</b> -0.5; <b>Climb min:</b> 0.5; <b>Climb max:</b> 10; <b>Center silent:</b> No |
| <b>Top Bar</b>       | <b>Volts source:</b> ----; <b>Altitude source:</b> ----                                                                              |
| <b>Multi sensors</b> | Enable                                                                                                                               |