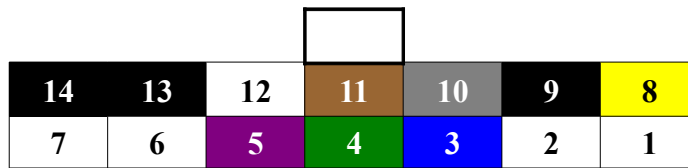


## ***Knock Defender Connection Diagram***

*Application: HKS F-CON V Pro Gold ECU v3.1+*



*Knock Defender: Connector Definition*

		<b><i>Knock Defender</i></b>		<b><i>HKS F-CON V Pro Gold ECU</i></b>	
<b><i>Pin</i></b>	<b><i>Colour</i></b>	<b><i>Description</i></b>		<b><i>Description</i></b>	<b><i>Pin</i></b>
<b>3</b>	<b>Blue</b>	Analog #2 OUTPUT	↔	RESERVED	
<b>4</b>	<b>Green</b>	Analog GND	↔	OPTIONAL	
<b>5</b>	<b>Violet</b>	Knock Level OUTPUT	↔	Knock Level INPUT	<b>23</b>
<b>8</b>	<b>Yellow</b>	POWER +5V INPUT	↔	+5V supply OUTPUT	<b>40</b>
<b>9</b>	<b>Black</b>	Knock Sensor #2 <i>GND</i>	↔	Knock Sensor #2 GND	
<b>10</b>	<b>Gray</b>	Knock Sensor #2 <i>INPUT</i>	↔	Knock Sensor #2	
<b>11</b>	<b>Brown</b>	Knock Window <i>INPUT</i>	↔	Knock Window <i>OUTPUT</i>	<b>61</b>
<b>12</b>	<b>White</b>	Knock Sensor #1 <i>INPUT</i>	↔	Knock Sensor #1	
<b>13</b>	<b>Black</b>	Knock Sensor #1 GND	↔	Knock Sensor #1 GND	
<b>14</b>	<b>Black</b>	SYSTEM GND	↔	ECU GROUND	<b>10</b>

*Knock Defender: Connection Diagram*

*NOTE: pin 23 should be cut and isolated. solder purple wire to pin 23 contact pin and wire.*

*NOTE: pin 24 should be cut and isolated. move contact pin and wire to pin 61. solder to brown.*