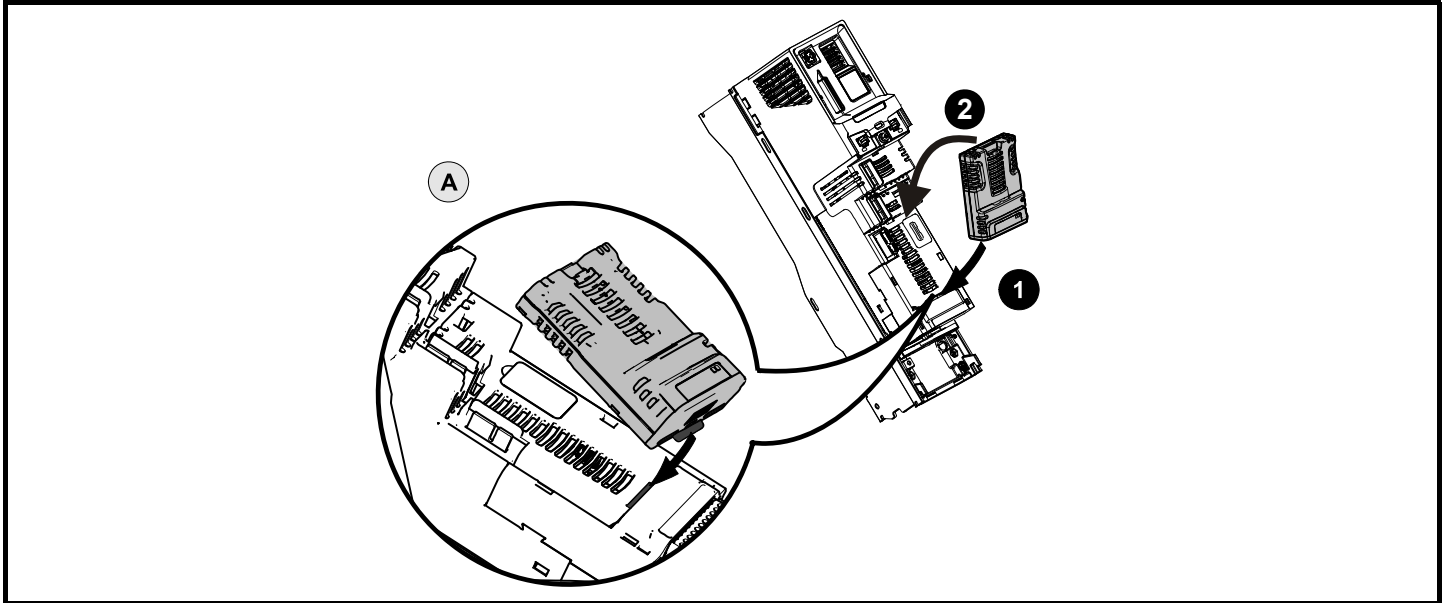


# Option Module Installation: Feedback



**CAUTION:** Power down the drive before installing / removing option modules. Failure to do so may result in damage to the product. Refer to section *Safety Information* in the appropriate drive manual.


Figure 1-1 Installing an option module




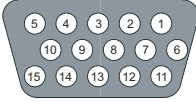
- Move the option module in direction shown (1/2).
- Align and insert the option module tab in to the slot provided, this is highlighted in the detailed view (A).
- Press down on the option module until it clicks into place.

**NOTE**

Option module slots must be used in the following order: Slot 3 (lower), Slot 2 (middle) and then Slot 1 (upper).

Module	Color	Terminal Information							
 <b>SI-Encoder</b>	Light Brown	<table border="1" style="margin: auto;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td> </tr> </table>	1	2	3	4	5	6	7
		1	2	3	4	5	6	7	
		<b>Encoder</b>							
		<b>AB</b>							
		1	A						
		2	A\						
		3	B						
4	B\								
5	Power supply output								
6									
7	0V								



Module	Color	Terminal Information																																																																																																																																																																																																																																																																																																																																																																																							
 <p><b>SI-Universal Encoder</b></p>	Dark Brown	<div style="display: flex; justify-content: space-around; align-items: center;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> </table> <div style="text-align: right;">  <p>15-way female D-type</p> </div> </div> <p><b>Table 1-1 P1 Interface</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Terminal</th> <th colspan="13">Encoder</th> </tr> <tr> <th>15 way D-type connector</th> <th>10 way pluggable connector</th> <th>AB</th> <th>FD</th> <th>FR</th> <th>AB Servo</th> <th>FD Servo</th> <th>FR Servo</th> <th>SC</th> <th>SC Hiperface</th> <th>EnDat</th> <th>SC EnDat</th> <th>SSI</th> <th>SC SSI</th> <th>SC Servo</th> <th>BiSS</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td>A</td><td>F</td><td></td><td>A</td><td>F</td><td>F</td><td>A (Cos)</td><td>Cos</td><td>DATA</td><td>A</td><td>DATA</td><td>A (Cos)</td><td></td><td>DATA</td></tr> <tr><td>2</td><td></td><td>A\</td><td>F\</td><td></td><td>A\</td><td>F\</td><td>F\</td><td>A\ (Cos\)</td><td>CosRef</td><td>DATA\</td><td>A\</td><td>DATA\</td><td>A\ (Cos\)</td><td></td><td>DATA\</td></tr> <tr><td>3</td><td></td><td>B</td><td>D</td><td></td><td>B</td><td>D</td><td>R</td><td>B (Sin)</td><td>Sin</td><td>CLK</td><td>B</td><td>CLK</td><td>B (Sin)</td><td></td><td>CLK</td></tr> <tr><td>4</td><td></td><td>B\</td><td>D\</td><td></td><td>B\</td><td>D\</td><td>R\</td><td>B\ (Sin\)</td><td>SinRef</td><td>CLK\</td><td>B\</td><td>CLK\</td><td>B\ (Sin\)</td><td></td><td>CLK\</td></tr> <tr><td>5</td><td></td><td colspan="7">Z</td><td>DATA</td><td>Freeze1</td><td>DATA</td><td colspan="2">Freeze1</td><td>Z</td><td>Freeze1</td></tr> <tr><td>6</td><td></td><td colspan="7">Z\</td><td>DATA\</td><td>Freeze1\</td><td>DATA\</td><td colspan="2">Freeze1\</td><td>Z\</td><td>Freeze1\</td></tr> <tr><td>7</td><td>3</td><td colspan="3">P2 / Enc. 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Out</td></tr> <tr><td>13</td><td>10</td><td colspan="14">+V (Power Supply Output)</td></tr> <tr><td>14</td><td>2, 7</td><td colspan="14">0V</td></tr> <tr><td>15</td><td></td><td colspan="14">Thermistor</td></tr> <tr><td></td><td>1</td><td colspan="14">+ 24 V Freeze Input</td></tr> </tbody> </table> <p><b>Table 1-2 P2 and Simulated Encoder Output Interfaces</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2">Terminal</th> <th colspan="4">P2 Interface</th> <th colspan="4">Encoder Simulation Output</th> </tr> <tr> <th>15 way D-type connector</th> <th>10 way pluggable connector</th> <th>AB</th> <th>FD</th> <th>FR</th> <th>EnDat SSI BiSS</th> <th>AB</th> <th>FD</th> <th>FR</th> <th>SSI</th> </tr> </thead> <tbody> <tr><td>7</td><td>3</td><td>A</td><td>F</td><td>F</td><td>DATA</td><td>Asim</td><td>Fsim</td><td>Fsim</td><td>DATAsim</td></tr> <tr><td>8</td><td>4</td><td>A\</td><td>F\</td><td>F\</td><td>DATA\</td><td>Asim\</td><td>Fsim\</td><td>Fsim\</td><td>DATAsim\</td></tr> <tr><td>9</td><td>5</td><td>B</td><td>D</td><td>R</td><td>CLK</td><td>Bsim</td><td>Dsim</td><td>Rsim</td><td>CLKsim</td></tr> <tr><td>10</td><td>6</td><td>B\</td><td>D\</td><td>R\</td><td>CLK\</td><td>Bsim\</td><td>Dsim\</td><td>Rsim\</td><td>CLKsim\</td></tr> <tr><td>11</td><td>8</td><td colspan="3">Z</td><td>Freeze2</td><td colspan="3">Zsim</td><td></td></tr> <tr><td>12</td><td>9</td><td colspan="3">Z\</td><td>Freeze2\</td><td colspan="3">Zsim\</td><td></td></tr> </tbody> </table>	1	2	3	4	5	6	7	8	9	10	Terminal		Encoder													15 way D-type connector	10 way pluggable connector	AB	FD	FR	AB Servo	FD Servo	FR Servo	SC	SC Hiperface	EnDat	SC EnDat	SSI	SC SSI	SC Servo	BiSS	1		A	F		A	F	F	A (Cos)	Cos	DATA	A	DATA	A (Cos)		DATA	2		A\	F\		A\	F\	F\	A\ (Cos\)	CosRef	DATA\	A\	DATA\	A\ (Cos\)		DATA\	3		B	D		B	D	R	B (Sin)	Sin	CLK	B	CLK	B (Sin)		CLK	4		B\	D\		B\	D\	R\	B\ (Sin\)	SinRef	CLK\	B\	CLK\	B\ (Sin\)		CLK\	5		Z							DATA	Freeze1	DATA	Freeze1		Z	Freeze1	6		Z\							DATA\	Freeze1\	DATA\	Freeze1\		Z\	Freeze1\	7	3	P2 / Enc. 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