NOTE TO USERS

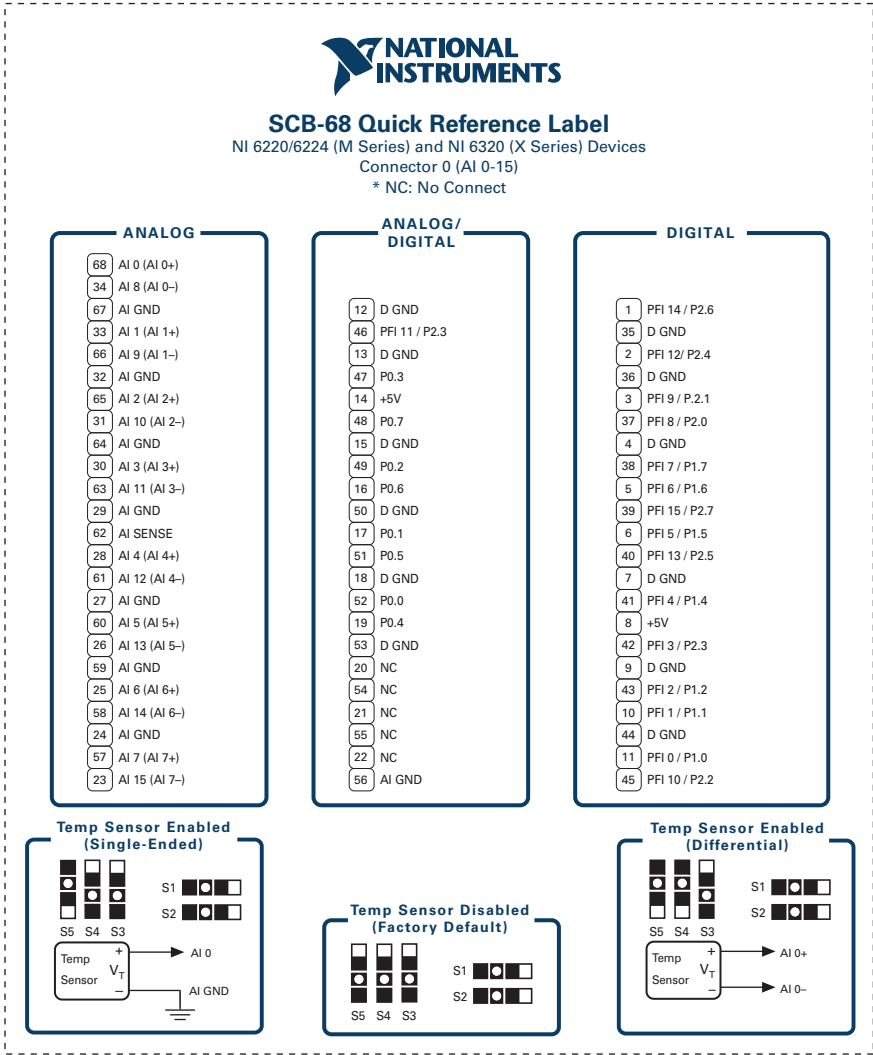# NI 62*xx*/63*xx* Pinout Labels for the SCB-68

## Multifunction I/O M/X Series Modules/Devices Using the 68-Pin Shielded Connector Block

If you are using an NI 62*xx* (formerly referred to as M Series) or NI 63*xx* (formerly referred to as X Series) multifunction I/O device or module with the SCB-68, you can attach a connector-specific pinout label to the cover of the connector block for easy connection reference. This document provides labels for the following models:

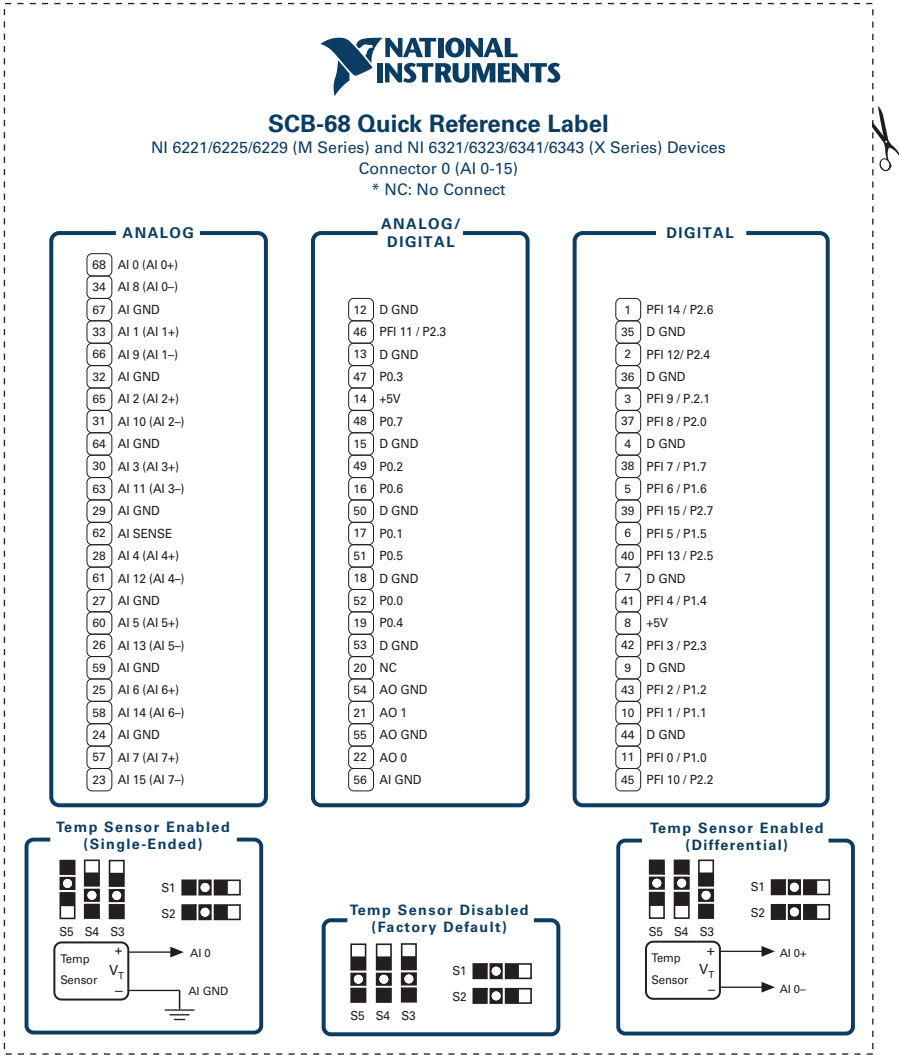| | | |
|---|---|---|
| NI 6220 | NI 6320 | NI 6356 |
| NI 6221 | NI 6321 | NI 6358 |
| NI 6224 | NI 6323 | NI 6366 |
| NI 6225 | NI 6341 | NI 6368 |
| NI 6229 | NI 6343 | NI 6374 |
| NI 6250 | NI 6345 | NI 6376 |
| NI 6251 | NI 6351 | NI 6378 |
| NI 6254 | NI 6353 | |
| NI 6255 | NI 6355 | |
| NI 6259 | NI 6361 | |
| NI 6280 | NI 6363 | |
| NI 6281 | NI 6365 | |
| NI 6284 | NI 6375 | |
| NI 6289 | | |

NATIONAL INSTRUMENTS™

Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6220/6224 and NI 6320 models.

**Figure 1.** NI 6220/6224 and NI 6320 Connector 0

## NATIONAL INSTRUMENTS

### SCB-68 Quick Reference Label
NI 6220/6224 (M Series) and NI 6320 (X Series) Devices
Connector 0 (AI 0-15)
* NC: No Connect

**ANALOG**

| | |
|---|---|
| 68 | AI 0 (AI 0+) |
| 34 | AI 8 (AI 0–) |
| 67 | AI GND |
| 33 | AI 1 (AI 1+) |
| 66 | AI 9 (AI 1–) |
| 32 | AI GND |
| 65 | AI 2 (AI 2+) |
| 31 | AI 10 (AI 2–) |
| 64 | AI GND |
| 30 | AI 3 (AI 3+) |
| 63 | AI 11 (AI 3–) |
| 29 | AI GND |
| 62 | AI SENSE |
| 28 | AI 4 (AI 4+) |
| 61 | AI 12 (AI 4–) |
| 27 | AI GND |
| 60 | AI 5 (AI 5+) |
| 26 | AI 13 (AI 5–) |
| 59 | AI GND |
| 25 | AI 6 (AI 6+) |
| 58 | AI 14 (AI 6–) |
| 24 | AI GND |
| 57 | AI 7 (AI 7+) |
| 23 | AI 15 (AI 7–) |

**ANALOG/ DIGITAL**

| | |
|---|---|
| 12 | D GND |
| 46 | PFI 11 / P2.3 |
| 13 | D GND |
| 47 | P0.3 |
| 14 | +5V |
| 48 | P0.7 |
| 15 | D GND |
| 49 | P0.2 |
| 16 | P0.6 |
| 50 | D GND |
| 17 | P0.1 |
| 51 | P0.5 |
| 18 | D GND |
| 52 | P0.0 |
| 19 | P0.4 |
| 53 | D GND |
| 20 | NC |
| 54 | NC |
| 21 | NC |
| 55 | NC |
| 22 | NC |
| 56 | AI GND |

**DIGITAL**

| | |
|---|---|
| 1 | PFI 14 / P2.6 |
| 35 | D GND |
| 2 | PFI 12/ P2.4 |
| 36 | D GND |
| 3 | PFI 9 / P.2.1 |
| 37 | PFI 8 / P2.0 |
| 4 | D GND |
| 38 | PFI 7 / P1.7 |
| 5 | PFI 6 / P1.6 |
| 39 | PFI 15 / P2.7 |
| 6 | PFI 5 / P1.5 |
| 40 | PFI 13 / P2.5 |
| 7 | D GND |
| 41 | PFI 4 / P1.4 |
| 8 | +5V |
| 42 | PFI 3 / P2.3 |
| 9 | D GND |
| 43 | PFI 2 / P1.2 |
| 10 | PFI 1 / P1.1 |
| 44 | D GND |
| 11 | PFI 0 / P1.0 |
| 45 | PFI 10 / P2.2 |

**Temp Sensor Enabled (Single-Ended)**

S1
S2
S5  S4  S3

Temp Sensor  +  $V_T$  –  → AI 0
→ AI GND

**Temp Sensor Disabled (Factory Default)**

S1
S2
S5  S4  S3

**Temp Sensor Enabled (Differential)**

S1
S2
S5  S4  S3

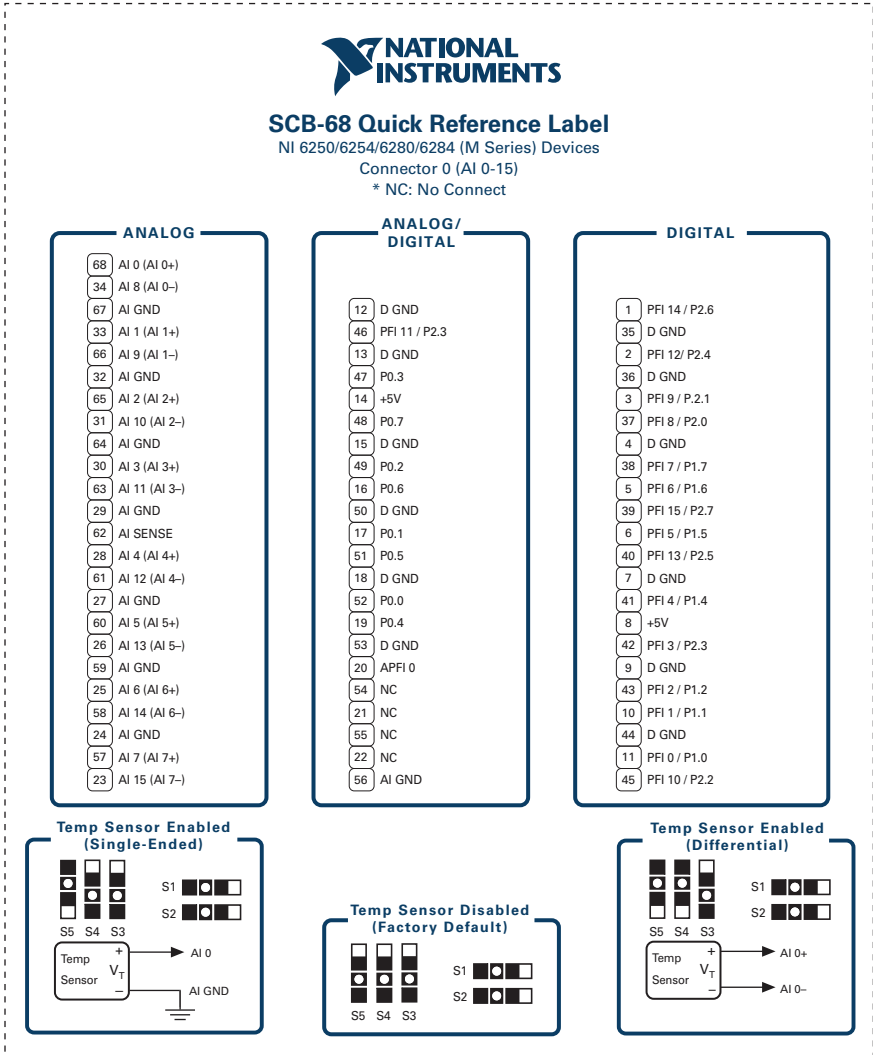Temp Sensor  +  $V_T$  –  → AI 0+
→ AI 0–

Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6221/6225/6229 and NI 6321/6341/6343 models.

**Figure 2.** NI 6221/6225/6229 and NI 6321/6341/6343 Connector 0



### SCB-68 Quick Reference Label
NI 6221/6225/6229 (M Series) and NI 6321/6323/6341/6343 (X Series) Devices
Connector 0 (AI 0-15)
* NC: No Connect

**ANALOG**

| | |
|---|---|
| 68 | AI 0 (AI 0+) |
| 34 | AI 8 (AI 0–) |
| 67 | AI GND |
| 33 | AI 1 (AI 1+) |
| 66 | AI 9 (AI 1–) |
| 32 | AI GND |
| 65 | AI 2 (AI 2+) |
| 31 | AI 10 (AI 2–) |
| 64 | AI GND |
| 30 | AI 3 (AI 3+) |
| 63 | AI 11 (AI 3–) |
| 29 | AI GND |
| 62 | AI SENSE |
| 28 | AI 4 (AI 4+) |
| 61 | AI 12 (AI 4–) |
| 27 | AI GND |
| 60 | AI 5 (AI 5+) |
| 26 | AI 13 (AI 5–) |
| 59 | AI GND |
| 25 | AI 6 (AI 6+) |
| 58 | AI 14 (AI 6–) |
| 24 | AI GND |
| 57 | AI 7 (AI 7+) |
| 23 | AI 15 (AI 7–) |

**ANALOG/ DIGITAL**

| | |
|---|---|
| 12 | D GND |
| 46 | PFI 11 / P2.3 |
| 13 | D GND |
| 47 | P0.3 |
| 14 | +5V |
| 48 | P0.7 |
| 15 | D GND |
| 49 | P0.2 |
| 16 | P0.6 |
| 50 | D GND |
| 17 | P0.1 |
| 51 | P0.5 |
| 18 | D GND |
| 52 | P0.0 |
| 19 | P0.4 |
| 53 | D GND |
| 20 | NC |
| 54 | AO GND |
| 21 | AO 1 |
| 55 | AO GND |
| 22 | AO 0 |
| 56 | AI GND |

**DIGITAL**

| | |
|---|---|
| 1 | PFI 14 / P2.6 |
| 35 | D GND |
| 2 | PFI 12/ P2.4 |
| 36 | D GND |
| 3 | PFI 9 / P2.1 |
| 37 | PFI 8 / P2.0 |
| 4 | D GND |
| 38 | PFI 7 / P1.7 |
| 5 | PFI 6 / P1.6 |
| 39 | PFI 15 / P2.7 |
| 6 | PFI 5 / P1.5 |
| 40 | PFI 13 / P2.5 |
| 7 | D GND |
| 41 | PFI 4 / P1.4 |
| 8 | +5V |
| 42 | PFI 3 / P2.3 |
| 9 | D GND |
| 43 | PFI 2 / P1.2 |
| 10 | PFI 1 / P1.1 |
| 44 | D GND |
| 11 | PFI 0 / P1.0 |
| 45 | PFI 10 / P2.2 |

**Temp Sensor Enabled (Single-Ended)**

S5 S4 S3
S1
S2
Temp Sensor $V_T$ → AI 0
→ AI GND

**Temp Sensor Disabled (Factory Default)**

S5 S4 S3
S1
S2

**Temp Sensor Enabled (Differential)**

S5 S4 S3
S1
S2
Temp Sensor $V_T$ → AI 0+
→ AI 0–

Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6250/6254/6280/6284 models.

**Figure 3.** NI 6250/6254/6280/6284 Connector 0

Use the following label if you are connecting the SCB-68 to Connector 0 of NI 6251/6255/6259/6281/6289 and NI 635x/636x/6375/6376/6378 models.

**Figure 4.** NI 6251/6255/6259/6281/6289 and NI 635x/636x/6375/6376/6378 Connector 0
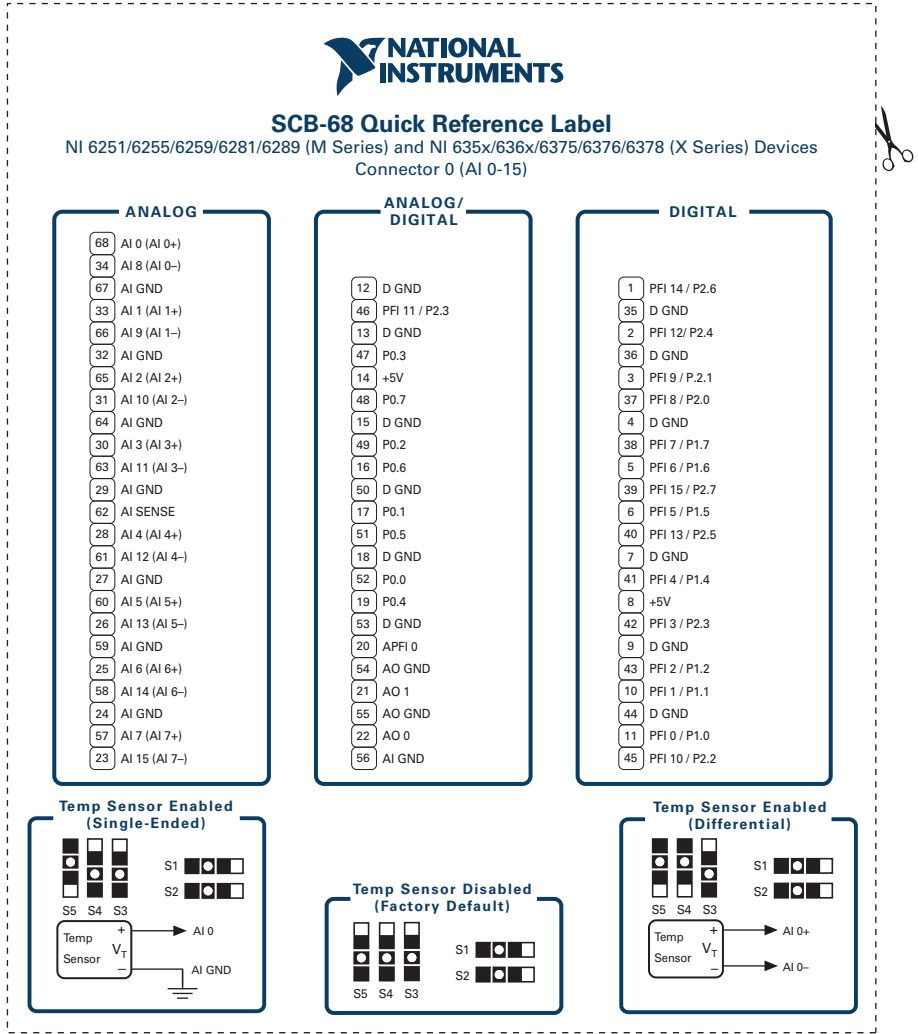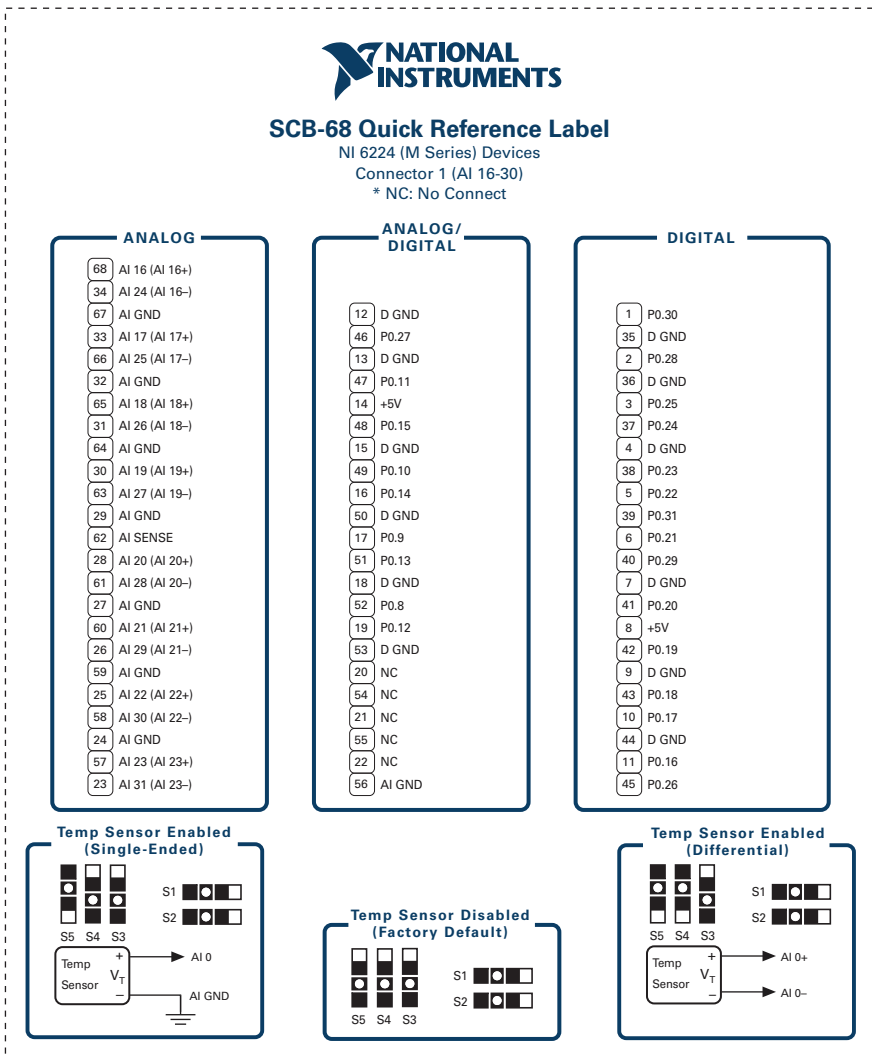
Use the following label if you are connecting the SCB-68 to Connector 0 of the NI 6374 model.

**Figure 5.** NI 6374 Connector 0
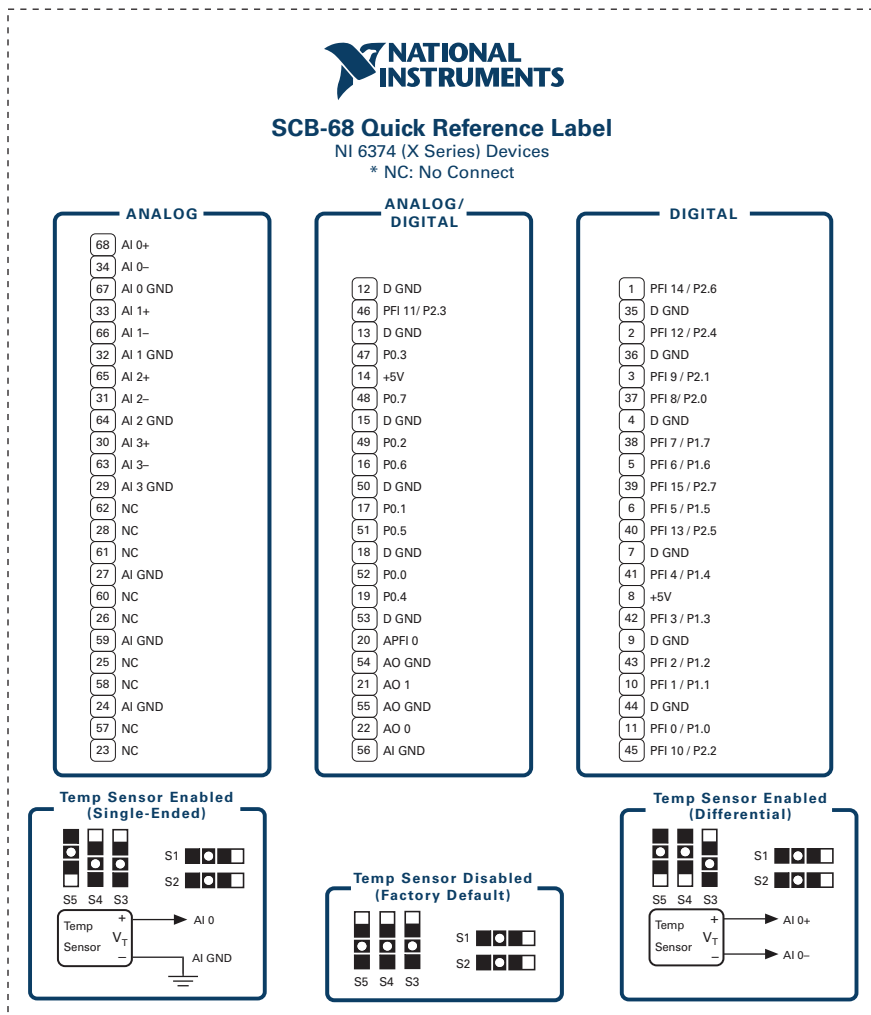
Use the following label if you are connecting the SCB-68 to Connector 1 of the NI 6224 model.

**Figure 6.** NI 6224 Connector 1



**NATIONAL INSTRUMENTS**

**SCB-68 Quick Reference Label**
NI 6224 (M Series) Devices
Connector 1 (AI 16-30)
* NC: No Connect

**ANALOG**

| 68 | AI 16 (AI 16+) |
| 34 | AI 24 (AI 16–) |
| 67 | AI GND |
| 33 | AI 17 (AI 17+) |
| 66 | AI 25 (AI 17–) |
| 32 | AI GND |
| 65 | AI 18 (AI 18+) |
| 31 | AI 26 (AI 18–) |
| 64 | AI GND |
| 30 | AI 19 (AI 19+) |
| 63 | AI 27 (AI 19–) |
| 29 | AI GND |
| 62 | AI SENSE |
| 28 | AI 20 (AI 20+) |
| 61 | AI 28 (AI 20–) |
| 27 | AI GND |
| 60 | AI 21 (AI 21+) |
| 26 | AI 29 (AI 21–) |
| 59 | AI GND |
| 25 | AI 22 (AI 22+) |
| 58 | AI 30 (AI 22–) |
| 24 | AI GND |
| 57 | AI 23 (AI 23+) |
| 23 | AI 31 (AI 23–) |

**ANALOG/DIGITAL**

| 12 | D GND |
| 46 | P0.27 |
| 13 | D GND |
| 47 | P0.11 |
| 14 | +5V |
| 48 | P0.15 |
| 15 | D GND |
| 49 | P0.10 |
| 16 | P0.14 |
| 50 | D GND |
| 17 | P0.9 |
| 51 | P0.13 |
| 18 | D GND |
| 52 | P0.8 |
| 19 | P0.12 |
| 53 | D GND |
| 20 | NC |
| 54 | NC |
| 21 | NC |
| 55 | NC |
| 22 | NC |
| 56 | AI GND |

**DIGITAL**

| 1 | P0.30 |
| 35 | D GND |
| 2 | P0.28 |
| 36 | D GND |
| 3 | P0.25 |
| 37 | P0.24 |
| 4 | D GND |
| 38 | P0.23 |
| 5 | P0.22 |
| 39 | P0.31 |
| 6 | P0.21 |
| 40 | P0.29 |
| 7 | D GND |
| 41 | P0.20 |
| 8 | +5V |
| 42 | P0.19 |
| 9 | D GND |
| 43 | P0.18 |
| 10 | P0.17 |
| 44 | D GND |
| 11 | P0.16 |
| 45 | P0.26 |

**Temp Sensor Enabled (Single-Ended)**
S5 S4 S3
S1
S2
Temp Sensor $V_T$ → AI 0
→ AI GND

**Temp Sensor Disabled (Factory Default)**
S1
S2
S5 S4 S3

**Temp Sensor Enabled (Differential)**
S5 S4 S3
S1
S2
Temp Sensor $V_T$ → AI 0+
→ AI 0–

Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6225/6255 and NI 6345/6355/6365/6375 models.

**Figure 7.** NI 6225/6255 and 6345/6355/6365/6375 Connector 1
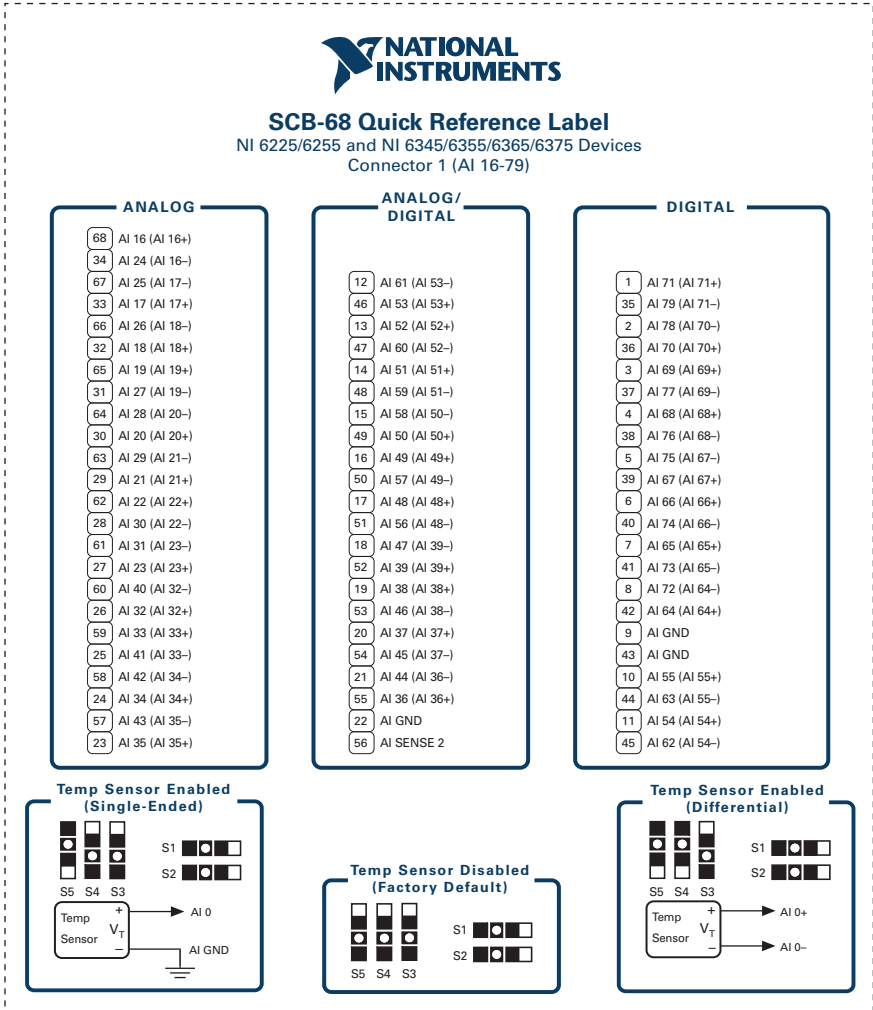
Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6229 and NI 6323/6343 models.
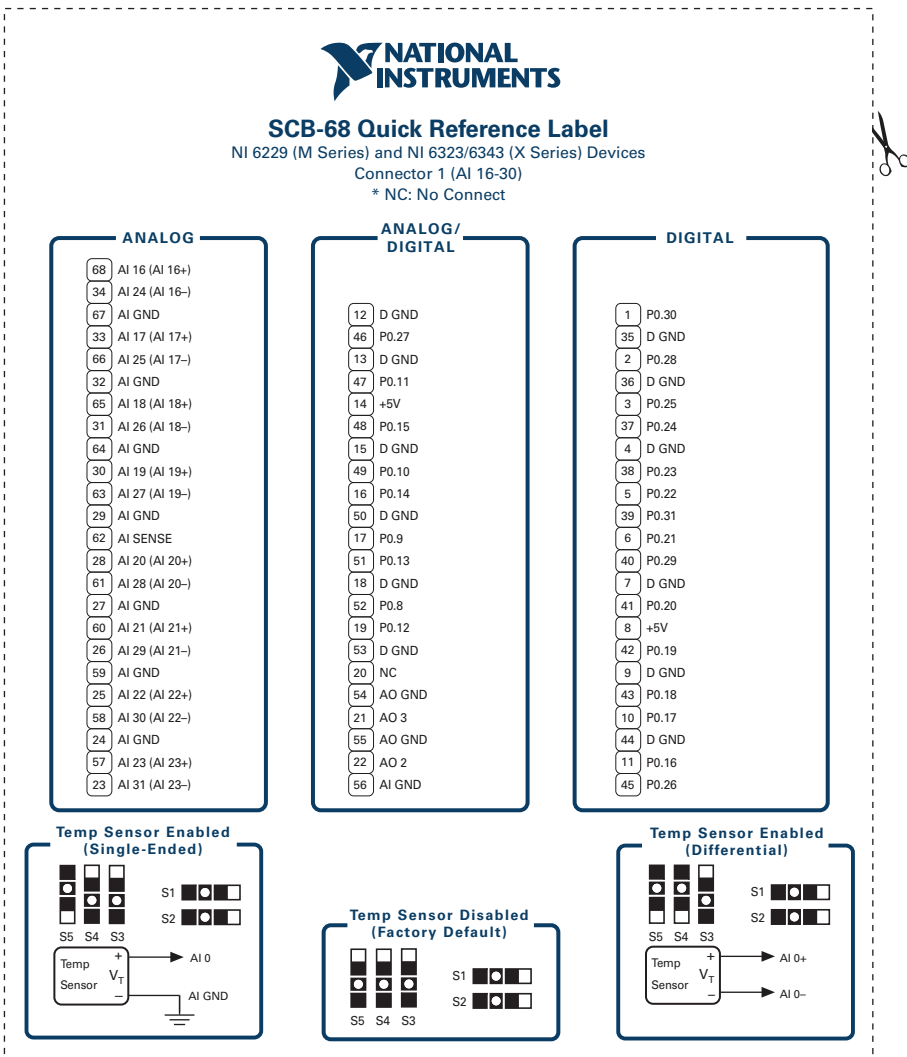
**Figure 8.** NI 6229 and NI 6323/6343 Connector 1



### SCB-68 Quick Reference Label
NI 6229 (M Series) and NI 6323/6343 (X Series) Devices
Connector 1 (AI 16-30)
\* NC: No Connect

**ANALOG**

| | |
|---|---|
| 68 | AI 16 (AI 16+) |
| 34 | AI 24 (AI 16–) |
| 67 | AI GND |
| 33 | AI 17 (AI 17+) |
| 66 | AI 25 (AI 17–) |
| 32 | AI GND |
| 65 | AI 18 (AI 18+) |
| 31 | AI 26 (AI 18–) |
| 64 | AI GND |
| 30 | AI 19 (AI 19+) |
| 63 | AI 27 (AI 19–) |
| 29 | AI GND |
| 62 | AI SENSE |
| 28 | AI 20 (AI 20+) |
| 61 | AI 28 (AI 20–) |
| 27 | AI GND |
| 60 | AI 21 (AI 21+) |
| 26 | AI 29 (AI 21–) |
| 59 | AI GND |
| 25 | AI 22 (AI 22+) |
| 58 | AI 30 (AI 22–) |
| 24 | AI GND |
| 57 | AI 23 (AI 23+) |
| 23 | AI 31 (AI 23–) |

**ANALOG/DIGITAL**

| | |
|---|---|
| 12 | D GND |
| 46 | P0.27 |
| 13 | D GND |
| 47 | P0.11 |
| 14 | +5V |
| 48 | P0.15 |
| 15 | D GND |
| 49 | P0.10 |
| 16 | P0.14 |
| 50 | D GND |
| 17 | P0.9 |
| 51 | P0.13 |
| 18 | D GND |
| 52 | P0.8 |
| 19 | P0.12 |
| 53 | D GND |
| 20 | NC |
| 54 | AO GND |
| 21 | AO 3 |
| 55 | AO GND |
| 22 | AO 2 |
| 56 | AI GND |

**DIGITAL**

| | |
|---|---|
| 1 | P0.30 |
| 35 | D GND |
| 2 | P0.28 |
| 36 | D GND |
| 3 | P0.25 |
| 37 | P0.24 |
| 4 | D GND |
| 38 | P0.23 |
| 5 | P0.22 |
| 39 | P0.31 |
| 6 | P0.21 |
| 40 | P0.29 |
| 7 | D GND |
| 41 | P0.20 |
| 8 | +5V |
| 42 | P0.19 |
| 9 | D GND |
| 43 | P0.18 |
| 10 | P0.17 |
| 44 | D GND |
| 11 | P0.16 |
| 45 | P0.26 |

**Temp Sensor Enabled (Single-Ended)**

S1, S2, S3, S4, S5 — AI 0, AI GND

**Temp Sensor Disabled (Factory Default)**

S1, S2, S3, S4, S5

**Temp Sensor Enabled (Differential)**

S1, S2, S3, S4, S5 — AI 0+, AI 0–

Use the following label if you are connecting the SCB-68 to Connector 1 of NI 6259/6289 and NI 6353/6358/6363/6368/6378 models.
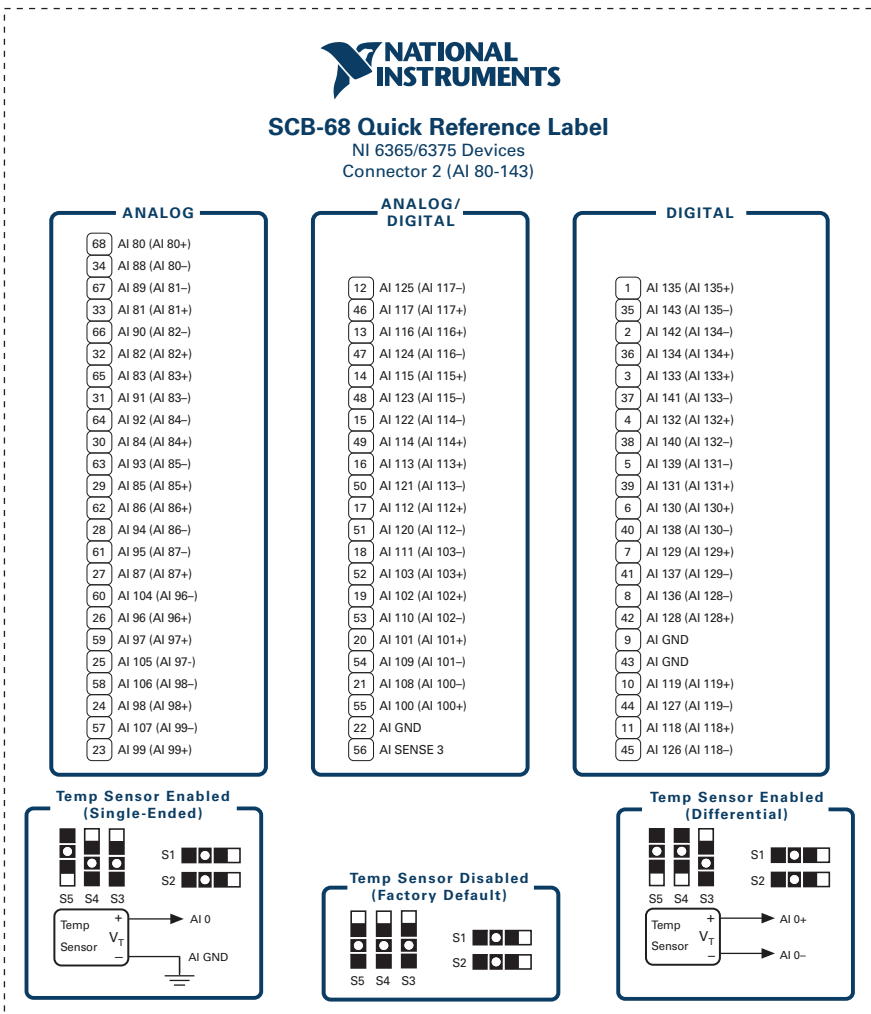
**Figure 9.** NI 6259/6289 and NI 6353/6358/6363/6368/6378 Connector 1

## NATIONAL INSTRUMENTS

### SCB-68 Quick Reference Label

NI 6259/6289 (M Series) and NI 6353/6358/6363/6368/6378 (X Series) Devices
Connector 1 (AI 16-30)

**ANALOG**

| 68 | AI 16 (AI 16+) |
| 34 | AI 24 (AI 16–) |
| 67 | AI GND |
| 33 | AI 17 (AI 17+) |
| 66 | AI 25 (AI 17–) |
| 32 | AI GND |
| 65 | AI 18 (AI 18+) |
| 31 | AI 26 (AI 18–) |
| 64 | AI GND |
| 30 | AI 19 (AI 19+) |
| 63 | AI 27 (AI 19–) |
| 29 | AI GND |
| 62 | AI SENSE |
| 28 | AI 20 (AI 20+) |
| 61 | AI 28 (AI 20–) |
| 27 | AI GND |
| 60 | AI 21 (AI 21+) |
| 26 | AI 29 (AI 21–) |
| 59 | AI GND |
| 25 | AI 22 (AI 22+) |
| 58 | AI 30 (AI 22–) |
| 24 | AI GND |
| 57 | AI 23 (AI 23+) |
| 23 | AI 31 (AI 23–) |

**ANALOG/DIGITAL**

| 12 | D GND |
| 46 | P0.27 |
| 13 | D GND |
| 47 | P0.11 |
| 14 | +5V |
| 48 | P0.15 |
| 15 | D GND |
| 49 | P0.10 |
| 16 | P0.14 |
| 50 | D GND |
| 17 | P0.9 |
| 51 | P0.13 |
| 18 | D GND |
| 52 | P0.8 |
| 19 | P0.12 |
| 53 | D GND |
| 20 | APFI 1 |
| 54 | AO GND |
| 21 | AO 3 |
| 55 | AO GND |
| 22 | AO 2 |
| 56 | AI GND |

**DIGITAL**

| 1 | P0.30 |
| 35 | D GND |
| 2 | P0.28 |
| 36 | D GND |
| 3 | P0.25 |
| 37 | P0.24 |
| 4 | D GND |
| 38 | P0.23 |
| 5 | P0.22 |
| 39 | P0.31 |
| 6 | P0.21 |
| 40 | P0.29 |
| 7 | D GND |
| 41 | P0.20 |
| 8 | +5V |
| 42 | P0.19 |
| 9 | D GND |
| 43 | P0.18 |
| 10 | P0.17 |
| 44 | D GND |
| 11 | P0.16 |
| 45 | P0.26 |

**Temp Sensor Enabled (Single-Ended)**

S5 S4 S3
S1
S2

Temp Sensor — $V_T$ → AI 0
→ AI GND

**Temp Sensor Disabled (Factory Default)**

S5 S4 S3
S1
S2

**Temp Sensor Enabled (Differential)**
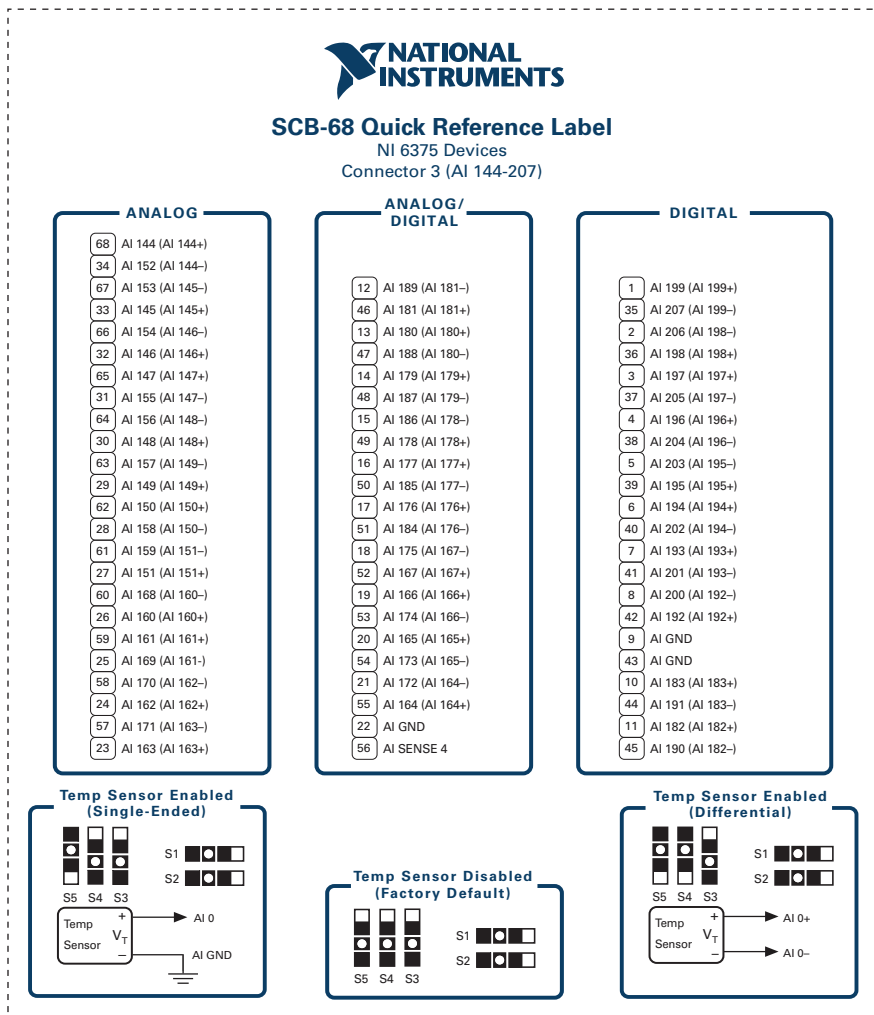
S5 S4 S3
S1
S2

Temp Sensor — $V_T$ → AI 0+
→ AI 0–

Use the following label if you are connecting the SCB-68 to Connector 2 of NI 6365/6375 models.

**Figure 10.** NI 6365/6375 Connector 2

## NATIONAL INSTRUMENTS

### SCB-68 Quick Reference Label
NI 6365/6375 Devices
Connector 2 (AI 80-143)

**ANALOG**

| | |
|---|---|
| 68 | AI 80 (AI 80+) |
| 34 | AI 88 (AI 80–) |
| 67 | AI 89 (AI 81–) |
| 33 | AI 81 (AI 81+) |
| 66 | AI 90 (AI 82–) |
| 32 | AI 82 (AI 82+) |
| 65 | AI 83 (AI 83+) |
| 31 | AI 91 (AI 83–) |
| 64 | AI 92 (AI 84–) |
| 30 | AI 84 (AI 84+) |
| 63 | AI 93 (AI 85–) |
| 29 | AI 85 (AI 85+) |
| 62 | AI 86 (AI 86+) |
| 28 | AI 94 (AI 86–) |
| 61 | AI 95 (AI 87–) |
| 27 | AI 87 (AI 87+) |
| 60 | AI 104 (AI 96–) |
| 26 | AI 96 (AI 96+) |
| 59 | AI 97 (AI 97+) |
| 25 | AI 105 (AI 97-) |
| 58 | AI 106 (AI 98–) |
| 24 | AI 98 (AI 98+) |
| 57 | AI 107 (AI 99–) |
| 23 | AI 99 (AI 99+) |

**ANALOG/ DIGITAL**

| | |
|---|---|
| 12 | AI 125 (AI 117–) |
| 46 | AI 117 (AI 117+) |
| 13 | AI 116 (AI 116+) |
| 47 | AI 124 (AI 116–) |
| 14 | AI 115 (AI 115+) |
| 48 | AI 123 (AI 115–) |
| 15 | AI 122 (AI 114–) |
| 49 | AI 114 (AI 114+) |
| 16 | AI 113 (AI 113+) |
| 50 | AI 121 (AI 113–) |
| 17 | AI 112 (AI 112+) |
| 51 | AI 120 (AI 112–) |
| 18 | AI 111 (AI 103–) |
| 52 | AI 103 (AI 103+) |
| 19 | AI 102 (AI 102+) |
| 53 | AI 110 (AI 102–) |
| 20 | AI 101 (AI 101+) |
| 54 | AI 109 (AI 101–) |
| 21 | AI 108 (AI 100–) |
| 55 | AI 100 (AI 100+) |
| 22 | AI GND |
| 56 | AI SENSE 3 |

**DIGITAL**

| | |
|---|---|
| 1 | AI 135 (AI 135+) |
| 35 | AI 143 (AI 135–) |
| 2 | AI 142 (AI 134–) |
| 36 | AI 134 (AI 134+) |
| 3 | AI 133 (AI 133+) |
| 37 | AI 141 (AI 133–) |
| 4 | AI 132 (AI 132+) |
| 38 | AI 140 (AI 132–) |
| 5 | AI 139 (AI 131–) |
| 39 | AI 131 (AI 131+) |
| 6 | AI 130 (AI 130+) |
| 40 | AI 138 (AI 130–) |
| 7 | AI 129 (AI 129+) |
| 41 | AI 137 (AI 129–) |
| 8 | AI 136 (AI 128–) |
| 42 | AI 128 (AI 128+) |
| 9 | AI GND |
| 43 | AI GND |
| 10 | AI 119 (AI 119+) |
| 44 | AI 127 (AI 119–) |
| 11 | AI 118 (AI 118+) |
| 45 | AI 126 (AI 118–) |

**Temp Sensor Enabled (Single-Ended)**

S5 S4 S3
S1
S2

Temp Sensor $V_T$ + → AI 0
− → AI GND

**Temp Sensor Disabled (Factory Default)**

S5 S4 S3
S1
S2

**Temp Sensor Enabled (Differential)**

S5 S4 S3
S1
S2

Temp Sensor $V_T$ + → AI 0+
− → AI 0–

Use the following label if you are connecting the SCB-68 to Connector 3 of the NI 6375 model.

**Figure 11.** NI 6375 Connector 3



SCB-68 Quick Reference Label
NI 6375 Devices
Connector 3 (AI 144-207)

**ANALOG**

| 68 | AI 144 (AI 144+) |
| 34 | AI 152 (AI 144–) |
| 67 | AI 153 (AI 145–) |
| 33 | AI 145 (AI 145+) |
| 66 | AI 154 (AI 146–) |
| 32 | AI 146 (AI 146+) |
| 65 | AI 147 (AI 147+) |
| 31 | AI 155 (AI 147–) |
| 64 | AI 156 (AI 148–) |
| 30 | AI 148 (AI 148+) |
| 63 | AI 157 (AI 149–) |
| 29 | AI 149 (AI 149+) |
| 62 | AI 150 (AI 150+) |
| 28 | AI 158 (AI 150–) |
| 61 | AI 159 (AI 151–) |
| 27 | AI 151 (AI 151+) |
| 60 | AI 168 (AI 160–) |
| 26 | AI 160 (AI 160+) |
| 59 | AI 161 (AI 161+) |
| 25 | AI 169 (AI 161-) |
| 58 | AI 170 (AI 162–) |
| 24 | AI 162 (AI 162+) |
| 57 | AI 171 (AI 163–) |
| 23 | AI 163 (AI 163+) |

**ANALOG/ DIGITAL**

| 12 | AI 189 (AI 181–) |
| 46 | AI 181 (AI 181+) |
| 13 | AI 180 (AI 180+) |
| 47 | AI 188 (AI 180–) |
| 14 | AI 179 (AI 179+) |
| 48 | AI 187 (AI 179–) |
| 15 | AI 186 (AI 178–) |
| 49 | AI 178 (AI 178+) |
| 16 | AI 177 (AI 177+) |
| 50 | AI 185 (AI 177–) |
| 17 | AI 176 (AI 176+) |
| 51 | AI 184 (AI 176–) |
| 18 | AI 175 (AI 167–) |
| 52 | AI 167 (AI 167+) |
| 19 | AI 166 (AI 166+) |
| 53 | AI 174 (AI 166–) |
| 20 | AI 165 (AI 165+) |
| 54 | AI 173 (AI 165–) |
| 21 | AI 172 (AI 164–) |
| 55 | AI 164 (AI 164+) |
| 22 | AI GND |
| 56 | AI SENSE 4 |

**DIGITAL**

| 1 | AI 199 (AI 199+) |
| 35 | AI 207 (AI 199–) |
| 2 | AI 206 (AI 198–) |
| 36 | AI 198 (AI 198+) |
| 3 | AI 197 (AI 197+) |
| 37 | AI 205 (AI 197–) |
| 4 | AI 196 (AI 196+) |
| 38 | AI 204 (AI 196–) |
| 5 | AI 203 (AI 195–) |
| 39 | AI 195 (AI 195+) |
| 6 | AI 194 (AI 194+) |
| 40 | AI 202 (AI 194–) |
| 7 | AI 193 (AI 193+) |
| 41 | AI 201 (AI 193–) |
| 8 | AI 200 (AI 192–) |
| 42 | AI 192 (AI 192+) |
| 9 | AI GND |
| 43 | AI GND |
| 10 | AI 183 (AI 183+) |
| 44 | AI 191 (AI 183–) |
| 11 | AI 182 (AI 182+) |
| 45 | AI 190 (AI 182–) |

**Temp Sensor Enabled (Single-Ended)**

S1, S2 — S5 S4 S3

Temp Sensor $+$ $V_T$ $-$ → AI 0, AI GND

**Temp Sensor Disabled (Factory Default)**

S1, S2 — S5 S4 S3

**Temp Sensor Enabled (Differential)**

S1, S2 — S5 S4 S3

Temp Sensor $+$ $V_T$ $-$ → AI 0+, AI 0–