Bulletin 1492 Programmable Controller Wiring Systems

Overview

- Increases machine building productivity
- Simplifies design and engineering time
- Reduces wiring time and wiring errors
- Benefits from quality-looking panels

Standards Compliance and Certifications

- Agency Certifications for Modules and Cables
cULus: Hazardous Locations: Class I Div 2 (all except modules with relays); Groups A, B, D, and D.
Temperature Code: T3C @ 60 °C.
UL File No. E10314, Guide No. NRAG
cULus: Ordinary Locations; Module with relays; UL File No. E11372
Guide No. NRAQ
- Agency Certification Modules
Factory Mutual (FM): Hazardous Locations; Class I Div 2 (all except modules with relays); Groups A, B, C, and D. Temperature Rating:
T3C @ 60 °C. FM file J.I.3000590
- CE Certifications
Compliant for all applicable directives

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Standards Compliance and Certifications, Continued

- UL 508
- UL 1604
- CSA C22.2 No. 14
- CSA C22.2 No. 213
- EN/IEC 61131-2

<table>
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<th>Bulletin</th>
<th>1746</th>
<th>1756</th>
<th>1762</th>
<th>1764</th>
<th>1769</th>
<th>1794</th>
<th>1771</th>
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<td>Description</td>
<td>SLC 500</td>
<td>ControlLogix</td>
<td>MicroLogix 1200</td>
<td>MicroLogix 1500</td>
<td>CompactLogix</td>
<td>Flex</td>
<td>PLC-5</td>
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* Information for this product is available on the Industrial Controls Catalog website: www.ab.com/catalogs
Analog Interface Modules (AIFMs)

General Information

Analog AIFMs are available with either 15- or 25-pin D-Shell connections. This is determined by the number of connections that are required by the I/O module.

**Important:** The following AIFM Cat. No. breakdown is for explanation purposes only. It is not a product configurator. Not all combinations of fields are valid product cat. nos. Use this breakdown for verification and explanation only.

<table>
<thead>
<tr>
<th>Module Type (all types do not configure a catalog number)</th>
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<tbody>
<tr>
<td>Code</td>
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<tr>
<td>------</td>
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<td>C</td>
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<td>6</td>
</tr>
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<td>8</td>
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<tr>
<td>16</td>
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<td>F</td>
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1492 – AIFM 16F – 5

<table>
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<tr>
<th>Number of Field Side Wiring Terminals</th>
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<td>------</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>5</td>
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Analog Interface Modules (AIFMs)

Feed-Through

Feed-through IFMs provide the same capability as normal terminal blocks but in a more condensed package. Standard terminal IFMs provide three field-side wiring terminals per programmable controller analog input or output point, which includes enough terminals for the device shield and power connections.

**Standard Terminal 4-channel:**
Cat. No. 1492-AIFM4-3

**Isolated Standard Terminal 6-channel IFM with 25 connections:**
Cat. No. 1492-AIFM6S-3, 1492-AIFM8-3

**Safety Integrity Level (SIL 2)**
Cat. No. 1492-TAIFM16-F-3

**Standard Terminal 8-channel for 3-wire sensor devices:**
Cat. No. 1492-AIFM8-3
Analog Interface Modules (AIFMs)

Fusible

Fusible analog interface input modules provide a convenient method to fuse the input power source on the field side. The field-side power source is distributed through individual on-board 5 x 20 fuse holders. The AIFMs have a 24V DC blown fuse indicators to reduce the troubleshooting time required to locate and replace a blown fuse. Fusible modules have an easy-to-remove transparent plexiglass cover to prevent objects from contacting fuse circuitry under normal operation. Standard fuse holders reside in the IFM, aiding in the removal of a fuse with a fuse puller (fuses are not included). Isolation switch plugs, or “dummy fuses”, are also available to isolate an input circuit once power is removed. In addition, once the circuit has been isolated and power restored, the input loop current can be measured in 2-wire transmitter applications. The fusible modules also have three or five terminals per I/O analog input point to create a power bus for device shield and power connections.

Analog Fused Products
Cat. No. 1492-AIFM4C-F-5, 1492-AIFM4F-F-5, 1492-AIFM8-F-5, 1492-AIFM16-F-3, 1492-AIFM16-F-5

Fused 4-channel module with 24V blown fuse indication, test points and 5 terminals per input: Cat. No. 1492-AIFM4I-F-5
8-channel input module with 24V blown fuse indication and 5 terminals per input: Cat. No. 1492-AIFM8-F-5

Fused 16-channel module with 24V blown fuse indication, test points and 3 terminals per input: Cat. No. 1492-AIFM16-F-3
16-channel input module with 24V blown fuse indication and 5 terminals per input

Analog Interface Modules (AIFMs)

Thermocouple

The Cat. No.1492-AIFM6TC-3 Thermocouple IFM for the Cat. No. 1756-IT6I or -IT6I2 ControlLogix I/O module provides on-board cold junction compensation to allow thermocouples to be connected remotely while still correcting for temperature at the termination point. The combination thermistor and isothermal bar acquire temperature data at the AIFM for the thermocouple to adjust the input value.

Thermocouple 6-channel module with isothermal bar and 3 terminals per output: Cat. No. 1492-AIFM6-TC-3
**Analog Cables**

**Pre-Wired**

Bulletin 1492 pre-wired cables are designed to minimize control wiring in a panel. Pre-wired cables, when used with an analog IFM, replace the point-to-point wiring between Allen-Bradley programmable controller I/O modules and individual terminal blocks. The pre-wired cables have a removable terminal block or wiring arm from the PLC on one end of the cable and a D-Shell connector with a slide-locking mechanism on the other to connect to the IFM. Most pre-wired cables use twisted pairs and all have shield to aid noise immunity of the low-level analog signals. Most cables have a prepared drain wire with a ring lug at the I/O module end of the cable for convenient grounding of the cable shield to the chassis. They are 100% tested for continuity to make a perfect connection every time. The analog pre-wired cables are offered in four standard lengths of 0.5, 1.0, 2.5, and 5.0 m to fit a variety of applications. Other length cables are also available as build-to-order products. Pre-wired analog cables are available for many of the Bulletin 1746 SLC I/O, Bulletin 1756 ControlLogix I/O, Bulletin 1769 Compact I/O for CompactLogix, MicroLogix 1500, 1974 Flex I/O, and Bulletin 1771 PLC-5 I/O modules.

**Analog Cables**

**I/O Ready - Not Available**

**Analog Cables**

**IFM Ready - Not Available**

**Cat. No. Explanation**

Analog Cables for Bulletins 1746, 1756/1757, and 1771

---

### Catalog Number Explanation

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>A-Cable Type</th>
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<tbody>
<tr>
<td>005</td>
<td>0.5 m (1.64 ft)</td>
<td>A, B, C, D, K, L, P, Q, R Pre-wired cables for Bulletin 1746 analog and RTD I/O modules.</td>
</tr>
<tr>
<td>010</td>
<td>1.0 m (3.28 ft)</td>
<td>E, F, G, H, J Pre-wired cables for Bulletin 1771 analog and RTD I/O modules.</td>
</tr>
<tr>
<td>025</td>
<td>2.5 m (8.20 ft)</td>
<td>TA, TB, TC, TD, UA, UB, UC, UD, VA, VB, WA, WB, X, Y, Z, ZA, ZB, ZC Pre-wired cables for Bulletin 1756 analog, RTD, and thermocouple I/O modules.</td>
</tr>
<tr>
<td>050</td>
<td>5.0 m (16.40 ft)</td>
<td>YT Pre-wired cable for Bulletin 1756 thermocouple I/O modules.</td>
</tr>
<tr>
<td>001-020</td>
<td>0.1...2.0 m (0.328...6.56 ft)</td>
<td>M Pre-wired cables for Bulletin 1757 pulse input I/O modules.</td>
</tr>
<tr>
<td>020-100</td>
<td>2.0...10.0 m (6.56...32.8 ft)</td>
<td></td>
</tr>
<tr>
<td>100-300</td>
<td>10.0...30.0 m (32.8...98.42 ft)</td>
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**1492 – ACABLE**

<table>
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<th>b</th>
<th>c</th>
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<tr>
<td>Analog Interface Cables</td>
<td>Standard or Build-to-Order Length Cable</td>
<td>A-Cable Type</td>
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<tr>
<td>Code</td>
<td>Description</td>
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<td>005</td>
<td>0.5 m (1.64 ft)</td>
<td>A, B, C, D, K, L, P, Q, R Pre-wired cables for Bulletin 1746 analog and RTD I/O modules.</td>
</tr>
<tr>
<td>010</td>
<td>1.0 m (3.28 ft)</td>
<td>E, F, G, H, J Pre-wired cables for Bulletin 1771 analog and RTD I/O modules.</td>
</tr>
<tr>
<td>025</td>
<td>2.5 m (8.20 ft)</td>
<td>TA, TB, TC, TD, UA, UB, UC, UD, VA, VB, WA, WB, X, Y, Z, ZA, ZB, ZC Pre-wired cables for Bulletin 1756 analog, RTD, and thermocouple I/O modules.</td>
</tr>
<tr>
<td>050</td>
<td>5.0 m (16.40 ft)</td>
<td>YT Pre-wired cable for Bulletin 1756 thermocouple I/O modules.</td>
</tr>
<tr>
<td>001-020</td>
<td>0.1...2.0 m (0.328...6.56 ft)</td>
<td>M Pre-wired cables for Bulletin 1757 pulse input I/O modules.</td>
</tr>
<tr>
<td>020-100</td>
<td>2.0...10.0 m (6.56...32.8 ft)</td>
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</tr>
<tr>
<td>100-300</td>
<td>10.0...30.0 m (32.8...98.42 ft)</td>
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**Analog Cables for Bulletins 1746, 1769, 700H/700S and 1794**

<table>
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<th>Cable Type</th>
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<tr>
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<td>A46 Analog cable for SLC500</td>
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<tr>
<td>010</td>
<td>1.0 m (3.28 ft)</td>
<td>A69, AB69, BA69, BB69, BC69, BD69, CB69, CA69, CB69, CC69, D69, EA69, EB69, EC69, ED69 Analog cable for 1769 I/O</td>
</tr>
<tr>
<td>025</td>
<td>2.5 m (8.20 ft)</td>
<td>ZTH Analog cable PowerFlex 700H</td>
</tr>
<tr>
<td>050</td>
<td>5.0 m (16.40 ft)</td>
<td>X7S, Z7S Analog cable PowerFlex 700S</td>
</tr>
<tr>
<td>001-020</td>
<td>0.1...2.0 m (0.328...6.56 ft)</td>
<td>Z94 Analog cable for Flex I/O</td>
</tr>
<tr>
<td>020-100</td>
<td>2.0...10.0 m (6.56...32.8 ft)</td>
<td></td>
</tr>
<tr>
<td>100-300</td>
<td>10.0...30.0 m (32.8...98.42 ft)</td>
<td></td>
</tr>
</tbody>
</table>

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**Important:** Use tables as a product configurator for pre-wired, IFM-ready, and I/O module-ready cables for Bulletins 1746, 1756, and 1771 digital I/O module cables. All combinations of these fields make valid product cat. nos. Refer to selection tables for IFM/XIM compatibility, additional cables, and ordering.

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**Cat. No. Explanation**

Analog Cables for Bulletins 1746, 1756/1757, and 1771

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**Important:** For explanation purposes only. It is not a product configurator. All combinations of fields are not valid product cat. nos. First, select the desired AIFM using the steps in Ordering Digital and Analog Wiring Systems in publication 1492-TD008_-_EN-P. Then, use this breakdown for verification and explanation only.
Digital IFM Modules with Field-Removable Terminal Blocks (RTBs)

Select groups of standard, fused and relay digital 1492 wiring system modules (refer to Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective 1492 wiring system module. The removable plug portion of the RTB assembly has a screw at each end to securely fasten it to the RTB socket, which is mechanically secured to the module circuit board hand housing. Modules are shipped with the RTB socket, but without the removable plug(s). Plugs are available with screw style (e.g., 1492-RTB20N) or push-in style (e.g., 1492-RTB16P) terminals and must be ordered separately (two pieces per cat. no.). Refer to the selection tables for the particular PLC I/O system of interest to determine which modules are offered with field removable terminal blocks.

All of the features available on fixed terminal block products (e.g. labels, agency certification, etc.) are also provided for the removable terminal block 1492 wiring system modules.

Analog AIFM Modules with Field-Removable Terminal Blocks (RTBs)

Select groups of analog 1492 wiring system modules (refer to Selection Tables) have field terminal blocks that can be removed (RTB). This RTB feature can provide easier wiring of field devices in a control cabinet where the IFM is located in a hard to reach area, or where hand-access is limited. It can also provide easier and faster replacement of a damaged or defective 1492 wiring system module. The removable plug portion of the RTB assembly has a screw at each end to securely fasten it to the RTB socket, which is mechanically secured to the module circuit board and housing. Modules are shipped with the RTB socket, but without the removable plug(s). Plugs are available with screw style (1492-RTBxxN) or push-in style (1492-RTBxxP) terminals and must be ordered separately (two pieces per cat. no.). Refer to the Selection Tables for the particular PLC I/O system of interest to determine which modules are offered with field Removable Terminal Blocks.

All of the features available on analog fixed terminal block products (e.g. labels, agency certification, etc.) are also provided for the removable terminal block 1492 wiring system modules.

Catalog Number Explanation

RTB Plugs

Important: The following cat. no. breakdown is for explanatory purposes only. It is not a product configurator. Not all combinations of fields are valid cat. nos. Use this breakdown for verification and explanation only.

Selecting a Wiring System

Use of Selection Tables

• Locate I/O module required. The top row indicates the I/O module for the I/O platform.
• Locate the interface module required. The second and third column indicates the interface module catalog number.
• Determine if an interface module exists for the I/O module; indicated by “Letter Code” in row (interface catalog number) and the column (I/O module).
• Locate cable. This is the letter indicated by “Letter Code” in the row (interface catalog number) and the column (I/O module). The “Letter Code” represents the suffix of the pre-wired cable.
• Determine cable catalog number. Add 1492-CABLE_ _ „ ”Letter Code”, example 1492-CABLE_ _A.
• Determine length of cable required, standard lengths are 0.5, 1.0, 2.5, and 5.0 m; which represents 005, 010, 025 and 050 for _ _ _ in the cable catalog number. Example 1492-CABLE010A = a 1.0 m cable with “Letter Code” A.
<table>
<thead>
<tr>
<th>Voltage [V]</th>
<th>Terminal per I/O Description</th>
<th>Fixed Terminal Block</th>
<th>Removable Terminal Block</th>
<th>RTB Plugs</th>
<th>Digital Cable Cat. No. Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>24...120</td>
<td>Standard</td>
<td>1492-IFM40F</td>
<td>1492-RIFM40F</td>
<td>1492-RTB20Q</td>
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<tr>
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**LED Indicating**

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**Fusible**

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<th>Terminal per I/O Description</th>
<th>Fixed Terminal Block</th>
<th>Removable Terminal Block</th>
<th>RTB Plugs</th>
<th>Digital Cable Cat. No. Suffix</th>
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<tr>
<td>24</td>
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<td>24...120</td>
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**Fusible - Isolated**

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<th>Removable Terminal Block</th>
<th>RTB Plugs</th>
<th>Digital Cable Cat. No. Suffix</th>
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<tr>
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<tr>
<td></td>
<td>Blown fuse LED (input)</td>
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<td>Y Y Y Y</td>
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<tr>
<td>24...120</td>
<td>Extr. Term. (input)</td>
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<td>Extr. Term. (input)</td>
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<td>Y Y Y Y</td>
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<td>1492-RIFM40F-FS120A-4</td>
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**Safety Integrity Level (SIL)**

<table>
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<th>Voltage [V]</th>
<th>Terminal per I/O Description</th>
<th>Fixed Terminal Block</th>
<th>Removable Terminal Block</th>
<th>RTB Plugs</th>
<th>Digital Cable Cat. No. Suffix</th>
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<td>Z Z</td>
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<td>Blown fuse LED (input)</td>
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See footnotes on the following page.
### Digital IFM Specifications

<table>
<thead>
<tr>
<th>Digital IFM Cat. No.</th>
<th>Voltage Range</th>
<th>Dimensions (W x H x D) [in.&gt;]</th>
<th>Indicator Circuit Current (Nominal) [mA]</th>
<th>Label Card Cat. No.</th>
</tr>
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<tbody>
<tr>
<td>1492-IFM20F-F2</td>
<td>0…132V AC/DC</td>
<td>4.33 x 3.27 x 2.78</td>
<td>—</td>
<td>46006-191-01, -233-01</td>
</tr>
<tr>
<td>1492-IFM20F-FS120-2</td>
<td>85…132V AC</td>
<td>4.33 x 3.27 x 2.78</td>
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<td>46006-191-01, -233-01</td>
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<tr>
<td>1492-IFM20F-FS120A-4</td>
<td>85…132V AC</td>
<td>4.33 x 3.27 x 2.78</td>
<td>—</td>
<td>46006-191-01, -233-01</td>
</tr>
<tr>
<td>1492-IFM20F-FS240-4</td>
<td>10…60V AC/DC</td>
<td>6.69 x 3.27 x 2.78</td>
<td>4.1</td>
<td>46006-208-01</td>
</tr>
<tr>
<td>1492-IFM20F-FS24-4</td>
<td>10…30V AC/DC</td>
<td>6.69 x 3.27 x 2.78</td>
<td>4.1</td>
<td>46006-208-01</td>
</tr>
<tr>
<td>1492-IFM40DS24-4</td>
<td>10…60V AC/DC</td>
<td>6.69 x 3.27 x 2.78</td>
<td>4.1</td>
<td>46006-208-01</td>
</tr>
<tr>
<td>1492-IFM40DS120-4</td>
<td>85…132V AC</td>
<td>8.27 x 3.27 x 2.78</td>
<td>2.5</td>
<td>46006-191-01, -233-01</td>
</tr>
<tr>
<td>1492-IFM40DS120A-4</td>
<td>85…132V AC</td>
<td>8.27 x 3.27 x 2.78</td>
<td>2.5</td>
<td>46006-191-01, -233-01</td>
</tr>
<tr>
<td>1492-IFM40DS240A-4</td>
<td>204…66V AC</td>
<td>8.27 x 3.27 x 2.78</td>
<td>2.5</td>
<td>46006-208-01</td>
</tr>
<tr>
<td>1492-IFM40DS24-4</td>
<td>10…30V AC/DC</td>
<td>7.09 x 3.27 x 2.78</td>
<td>&lt;0.05</td>
<td>46006-201-01</td>
</tr>
<tr>
<td>1492-IFM40DS24A-4</td>
<td>10…30V AC/DC</td>
<td>7.09 x 3.27 x 2.78</td>
<td>&lt;0.05</td>
<td>46006-201-01</td>
</tr>
<tr>
<td>1492-IFM40DS240A-4</td>
<td>204…66V AC</td>
<td>7.09 x 3.27 x 2.78</td>
<td>&lt;0.05</td>
<td>46006-201-01</td>
</tr>
<tr>
<td>1492-IFM40DS240-4</td>
<td>10…30V AC/DC</td>
<td>7.09 x 3.27 x 2.78</td>
<td>&lt;0.05</td>
<td>46006-201-01</td>
</tr>
</tbody>
</table>

* To convert to millimeters, multiply inches by 25.4.
* Ships with each module. For spare part, precede the part number with the letter "W."
* Add 0.39 in. to the width dimension for Bulletin 1492-Rxxx modules.
## General Wiring System Specifications

<table>
<thead>
<tr>
<th>Agency Certifications: Modules and Cables</th>
<th>Catalog Number 1492-...</th>
</tr>
</thead>
<tbody>
<tr>
<td>cULus Listed: Hazardous Locations: Class I Div 2 (all except modules with relays); Groups A, B, D, and D. Temperature Code: T3C @ 60 °C. Standard UL File No. E10314, Guide No. NRAG/NRAG7</td>
<td></td>
</tr>
<tr>
<td>cULus Standard Locations; Module with relays; UL File No. E11372, Guide No. NRAQ/NRAQ7</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agency Certification Modules</th>
<th>Factory Mutual (FM): Hazardous Locations; Class I Div 2 (all except modules with relays); Groups A, B, C, and D. Temperature Rating: T3C @ 60 °C. FM File JJ.3000590</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE Certifications</td>
<td>Compliant for all applicable directives</td>
</tr>
<tr>
<td>Maximum Peak Transient Voltage</td>
<td>600V ‡</td>
</tr>
<tr>
<td>Maximum Current (per circuit)</td>
<td>2 A (except relays) §</td>
</tr>
<tr>
<td>Maximum Current (per module)</td>
<td>12 A (except relays) §</td>
</tr>
<tr>
<td>Terminal Block Wire Range (Rated Cross Section) *</td>
<td>Fixed Screw Style: #12…#22 AWG (4.0...0.2 mm²) Removable Screw Style: #12 to #22 AWG 2.5...0.5 mm² Removable Push-in Style: #12 to #26 AWG (2.5...0.2mm²)</td>
</tr>
<tr>
<td>Wire Strip Length</td>
<td>Fixed Screw Style: 32 in. (8.0 mm) Removable Screw Style: 28 in. (7.0 mm) Removable Push-in Style: 39 in. (10.0 mm)</td>
</tr>
<tr>
<td>Recommended Terminal Block Screw Tightening Torque</td>
<td>Fixed Screw Style: 3.5...4.5 lb-in. (0.38...0.50 Nm) Removable Screw Style: 3.5...4.5 lb-in. (0.38...0.50 Nm) Removable Push-in Style: NA (See Push-in RTB Plug Specifications)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0...+60 °C</td>
</tr>
<tr>
<td>Storage Temperature Cables</td>
<td>-20...+80 °C</td>
</tr>
<tr>
<td>Storage Temperature Modules</td>
<td>-40...+85 °C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5...95% non-condensing</td>
</tr>
<tr>
<td>Pollution Degree</td>
<td>2atitis</td>
</tr>
</tbody>
</table>

### Max. AWG

<table>
<thead>
<tr>
<th>Max. No. of Wires per Terminal *</th>
<th>#22</th>
<th>#20</th>
<th>#18</th>
<th>#16</th>
<th>#14</th>
<th>#12</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

* Cat. Nos. 1492-IFM40F-F24AD-4 and 1492-IFM40F-F24D-2 are rated at 8 A.
* Maximum number of the same gauge stranded copper conductors allowed per wire funnel.
* Pollution Degree 2 is an environment where normally only non-conductive pollution occurs, except for occasional temporary conductivity caused by condensation shall be expected.
* ‡ For transients >600V, use UL Recognized suppression device rated at 2.5 kV withstand.
* § For relay contact ratings, refer to page 9-42.