



Analog Interface Module
Module d'interface analogique
Analog-Schnittstellenmodul
Modulo interfaccia analogica
Módulo de interface analoga
(Cat 1492-AIFM8-3, -RAIFM8-3)



WARNING

To prevent electrical shock, disconnect from power source before installing or servicing. FM Class 1, Div.2 requires device installation in a tool-accessible enclosure compliant with ANSI/ISA S82.

AVERTISSEMENT

Avant le montage et la mise en service, couper l'alimentation secteur pour éviter toutes décharges. FM Classe 1, Div. 2 nécessite l'installation de l'équipement dans une armoire accessible aux interventions, conforme à ANSI/ISA S82.

WARNUNG

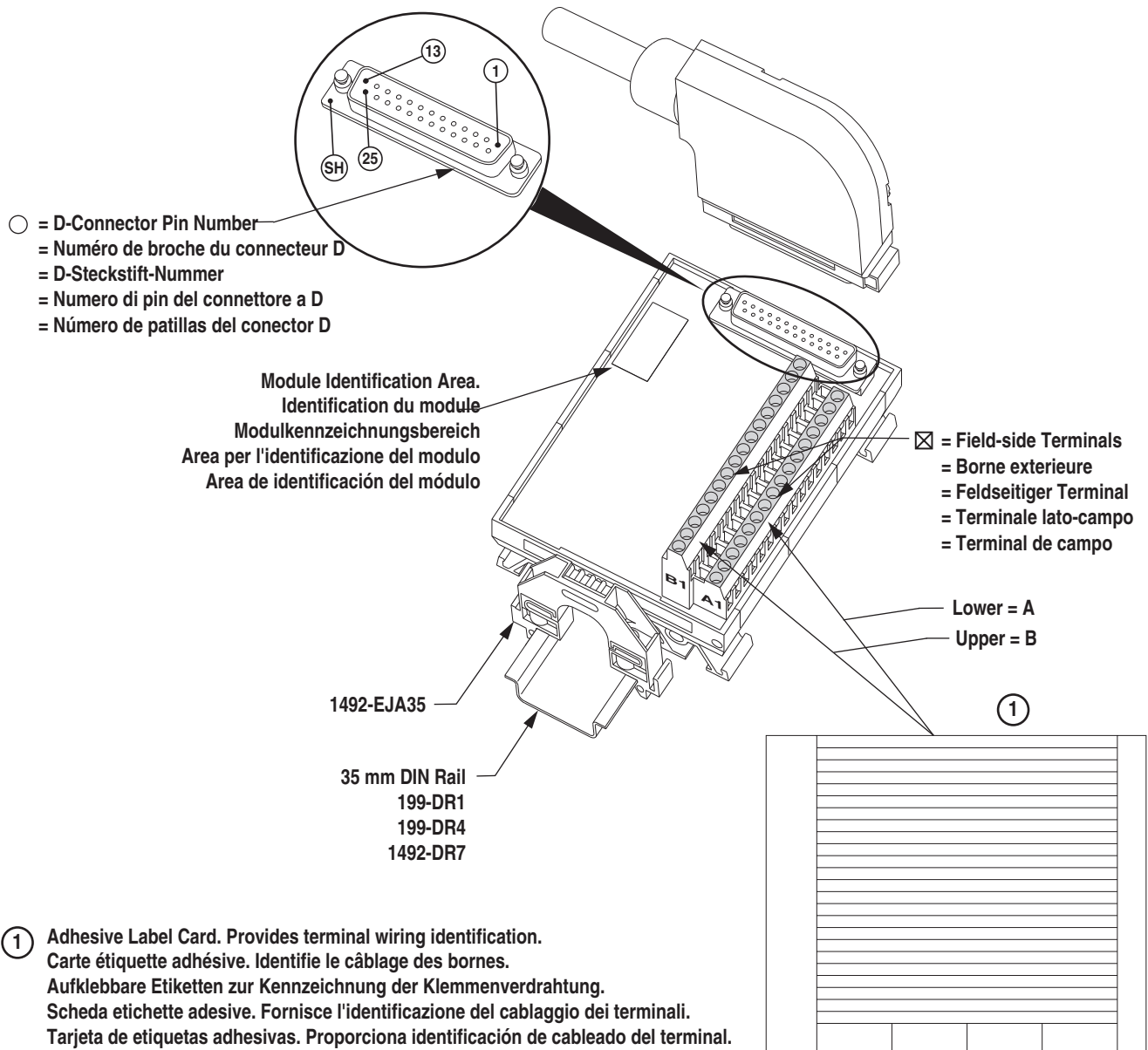
Vor Installations- oder Servicearbeiten Strom-versorgung unterbrechen, um Elektroschocks zu vermeiden. FM-Klasse 1, Gruppe 2 erfordert die Installation des Gerätes in einem Gehäuse, das für Werkzeuge zugänglich ist und den Anforderungen gemäß ANSI/ISA S82 entspricht.

AVVERTENZA

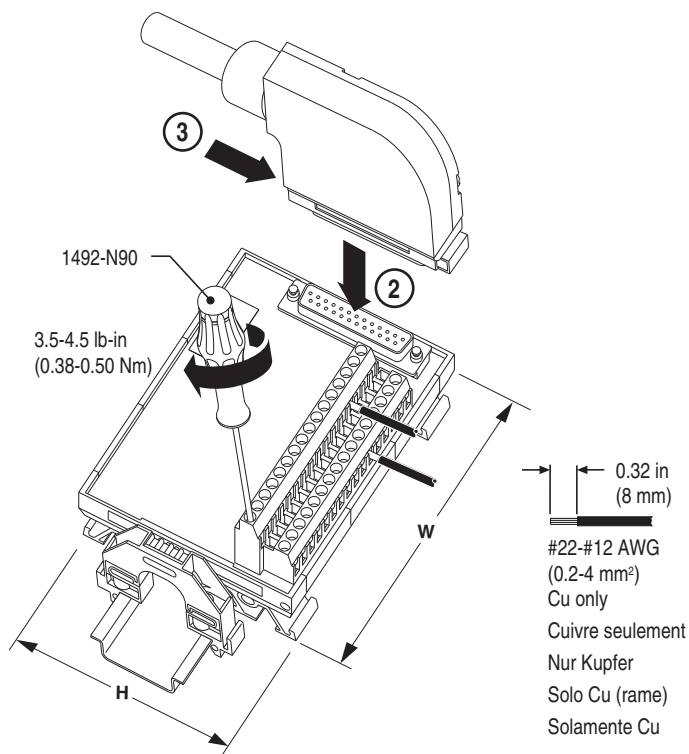
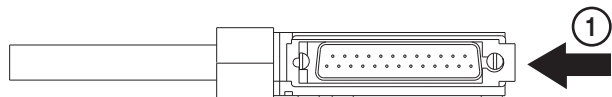
Per prevenire infortuni, togliere tensione prima dell'installazione o manutenzione. FM Classe 1, Divisione 2 richiede l'installazione del dispositivo in un alloggiamento con capacità di accesso per strumenti conforme allo standard ANSI/ISA S82.

ADVERTENCIA

Desconéctese de la corriente eléctrica, antes de la instalación o del servicio, a fin de impedir sacudidas eléctricas. El requisito de FM (Factory Mutual) Clase 1, Div. 2, establece que el dispositivo debe instalarse en un envoltente que permita la introducción y uso de herramientas y cumpla con la norma ANSI/ISA S82.

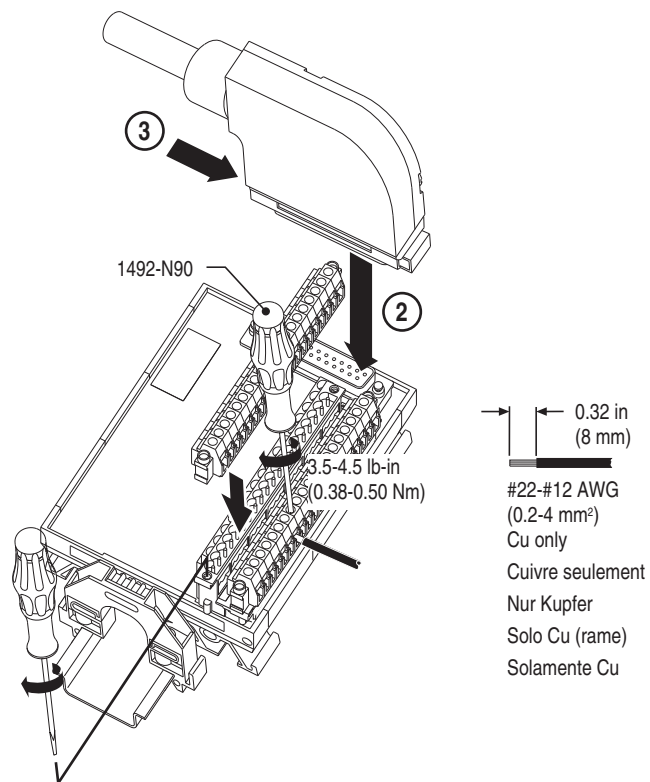
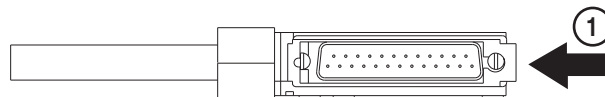


Module
Installation / Removal
Montage / Retrait
Installation / Entfernen
Montaggio / Smontaggio
Instalación / Extracción



Applies to modules with fixed and removable (R) terminal block

Removable Terminal Block
Installation / Removal
Montage / Retrait
Installation / Entfernen
Montaggio / Smontaggio
Instalación / Extracción



Applies to modules with removable terminal block plugs (1492-RAIFM_)

Cable Matrix
Tableau des câbles

Kabelmatrix
Matrice dei cavi

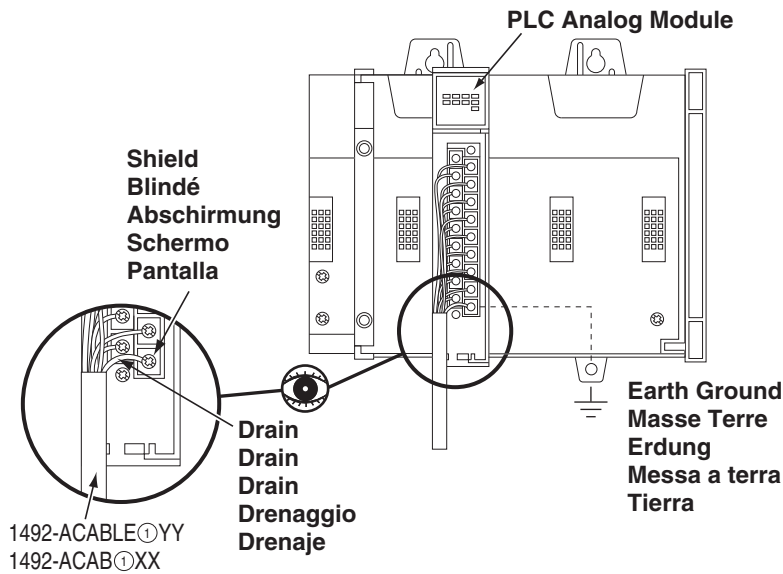
Matriz de cables

I/O Module Module E/S E/A-Modul Modulo I/O Módulo de E/S	1492-AIFM8-3 1492-RAIFM8-3 ③	I/O Module Module E/S E/A-Modul Modulo I/O Módulo de E/S	1492-AIFM8-3 1492-RAIFM8-3 ③	I/O Module Module E/S E/A-Modul Modulo I/O Módulo de E/S	1492-AIFM8-3 1492-RAIFM8-3 ③
1746-NI8	1492-ACABLE ①C				
1746-NI16I (Voltage) (Tension) (Spannung) (Tensione) (Voltaje)	1492-ACAB ①A46	1756-IF16 TC-IAH16I (Differential Current) (Courant différentiel) (Differentialstrom) (Corrente differenziale) (Corriente diferencial)	1492-ACABLE ①UD 1492-HWACAB ①UD	1769-OF8 (Voltage) (Tension) (Spannung) (Tensione) (Voltaje) (Current) (Courant) (Strom) (Corrente) (Corriente)	1492-ACAB ①D69
1746-NI16V (Current) (Courant) (Strom) (Corrente) (Corriente)	1492-ACAB ①A46	1756-OF8 TC-OAV08I (Voltage) (Tension) (Spannung) (Tensione) (Voltaje)	1492-ACABLE ①WA 1492-HWACAB ①WA	1771-IFE (Differential) (Différentiel) (Differential) (Differenziale) (Diferencial)	1492-ACABLE ①E
1746-NO8I (Voltage) (Tension) (Spannung) (Tensione) (Voltaje)	1492-ACABLE ①R	1756-OF8H (Current Output Hart Protocol)	1492-ACABLE ①WB	1771-IFE (Single-ended) (Assymétrique) (Asymmetrische) (Asimetrica) (Asimétrica)	1492-ACABLE ①F
1746-N08V (Current) (Courant) (Strom) (Corrente) (Corriente)	1492-ACABLE ①R	1756-OF8H (Voltage Output)	1492-ACABLE ①WA	1771-IFF (Differential) (Différentiel) (Differential) (Differenziale) (Diferencial)	1492-ACABLE ①E
1756-IF8 TC-IAH08I (Single-ended Voltage) (Tension assymétrique) (Asymmetrische Spannung) (Tensione asimmetrica) (Tensión asimétrica)	1492-ACABLE ①TA 1492-HWACAB ①TA	1756-OF8 TC-OAV08I (Current) (Courant) (Strom) (Corrente) (Corriente)	1492-ACABLE ①WB 1492-HWACAB ①WB	1771-IFF (Single-ended) (Assymétrique) (Asymmetrische) (Asimetrica) (Asimétrica)	1492-ACABLE ①F
1756-IF8 TC-IAH08I (Single-Ended Current) (Courant assymétrique) (Asymmetrische Strom) (Corrente asimmetrica) (Corriente asimétrica)	1492-ACABLE ①TB 1492-HWACAB ①TB	1769-IF8 (Single-ended Voltage) (Tension assymétrique) (Asymmetrische Spannung) (Tensione asimmetrica) (Tensión asimétrica)	1492-ACAB ①EA69	1771-IL 1794-IE4XOE2 1794-IE8 1794-IF2XOF2I 1794-IF4I 1794-OE4 1794-OF4I	1492-ACAB ①Z94
1756-IF8 TC-IAH08I (Differential Voltage) (Tension différentiel) (Differentialspannung) (Tensione differenziale) (Tensión diferencial)	1492-ACABLE ①TC 1492-HWACAB ①TC	1769-IF8 (Single-Ended Current) (Courant assymétrique) (Asymmetrische Strom) (Corrente asimmetrica) (Corriente asimétrica)	1492-ACAB ①EB69		
1756-IF8 TC-IAH08I (Differential Current) (Courant différentiel) (Differentialstrom) (Corrente differenziale) (Corriente diferencial)	1492-ACABLE ①TD 1492-HWACAB ①TD	1769-IF8 (Differential Voltage) (Tension différentiel) (Differentialspannung) (Tensione differenziale) (Tensión diferencial)	1492-ACAB ①EC69		
1756-IF8H (Current Input Hart Protocol)	1492-ACABLE ①UD	1769-IF8 (Differential Current) (Courant différentiel) (Differentialstrom) (Corrente differenziale) (Corriente diferencial)	1492-ACAB ①ED69		
1756-IF8H (Voltage Input)	1492-ACABLE ①UC	1769-IF16C (Differential Current) (Courant différentiel) (Differentialstrom) (Corrente differenziale) (Corriente diferencial)	1492-ACAB ①EE69		
1756-IF16 TC-IAH16I (Single-ended Voltage) (Tension assymétrique) (Asymmetrische Spannung) (Tensione asimmetrica) (Tensión asimétrica)	1492-ACABLE ①UA 1492-HWACAB ①UA	1769-IF16V (Voltage) (Tension) (Spannung) (Tensione) (Voltaje)	1492-ACAB ①EE69		
1756-IF16 TC-IAH16I (Single-Ended Current) (Courant assymétrique) (Asymmetrische Strom) (Corrente asimmetrica) (Corriente asimétrica)	1492-ACABLE ①UB 1492-HWACAB ①UB				
1756-IF16 TC-IAH16I (Differential Voltage) (Tension différentiel) (Differentialspannung) (Tensione differenziale) (Tensión diferencial)	1492-ACABLE ①UC 1492-HWACAB ①UC				

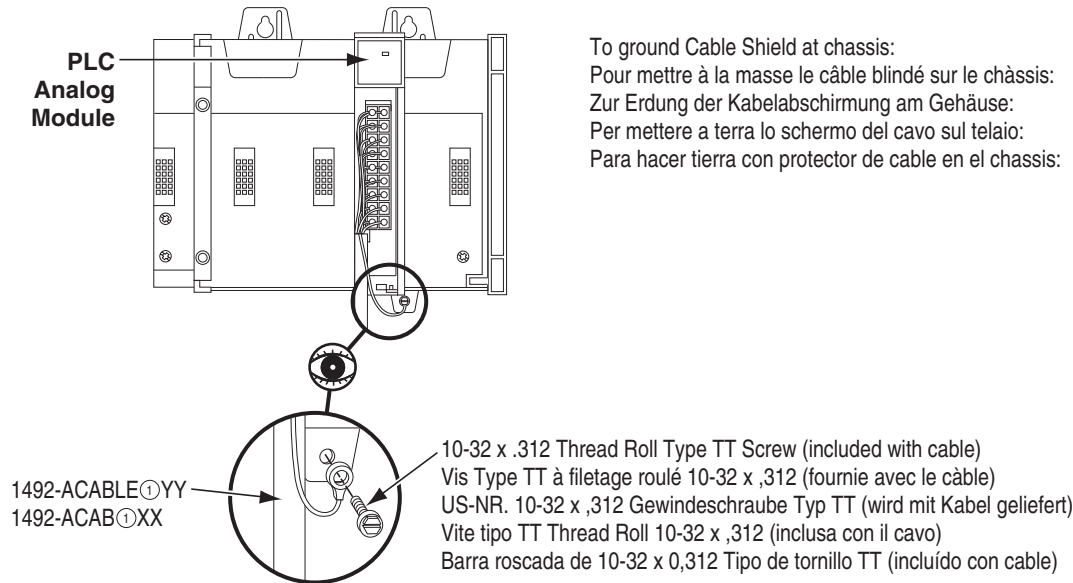
- ① Cables are available in 0.5m, 1.0m, 2.5m and 5.0m lengths (005=0.5m, 010=1.0m, 025=2.5m, 050=5.0m). Custom length cables also available. Contact local Sales Office for more information.
Câbles disponibles en 0,5m, 1,0m, 2,5m et 5,0m de longueur (005=0,5m; 010=1,0m; 025=2,5m; 050=5,0m). Câbles sur mesure à la demande. Contactez e bureau le plus proche.
Verfügbare Kabellängen 0,5m, 1,0m, 2,5m und 5,0m (005=0,5m; 010=1,0m; 025=2,5m; 050=5,0m). Anwenderspezifische Längen stehen ebenfalls zur Verfügung. Kontaktieren Sie bitte Ihr lokales Vertriebsbüro für weitere Informationen.
I cavi sono disponibili in lunghezze di 0,5m, 1,0m, 2,5m e 5,0m (005=0,5m; 010=1,0m; 025=2,5m; 050=5,0m). Sono disponibili anche cavi su misura. Per ulteriori informazioni, contattare l'ufficio vendite locale.
Cables disponibles en longitudes de 0,5m, 1,0m, 2,5m, 5,0m (005=0,5m; 010=1,0m; 025=2,5m; 050=5,0m). Hay disponibles cables de varias longitudes. Para más información comuníquese con la oficina de ventas.
- ② Supports Removable Terminal Block (RTB) plug. Compatible screw style plug, 1492-RTB16N (pkg. qty. 2). Compatible push-in style plug 1492-RTB16P (pkg. qty. 2). Order plugs separately.
- ③ Cable is limited for use within the control panel unless it is run through conduit. Cable is ITC (Instrumentation Tray Cable) rated.

Cable Shield
Installation
Installation du
câble blindé
Kabelab-
schirmungs
Installation
Installazione
schermo del
cavo
Instalación de
pantalla de
cable

NOTICE	Refer to your PLC modules Installation Manual for unique grounding requirements
REMARQUE	Voir le manuel d'installation de vos modules PLC pour les conditions uniques de mise à la masse.
HINWEIS	Informationen zu besonderen Erdungsanforderungen finden Sie im Installationshandbuch für PLC-Module.
NOTA	Per requisiti specifici di messa a terra consultare il manuale di installazione dei moduli PLC.
AVISO	Consulte el manual de instalación de módulos PLC para conocer los requisitos sobre la conexión única a tierra.

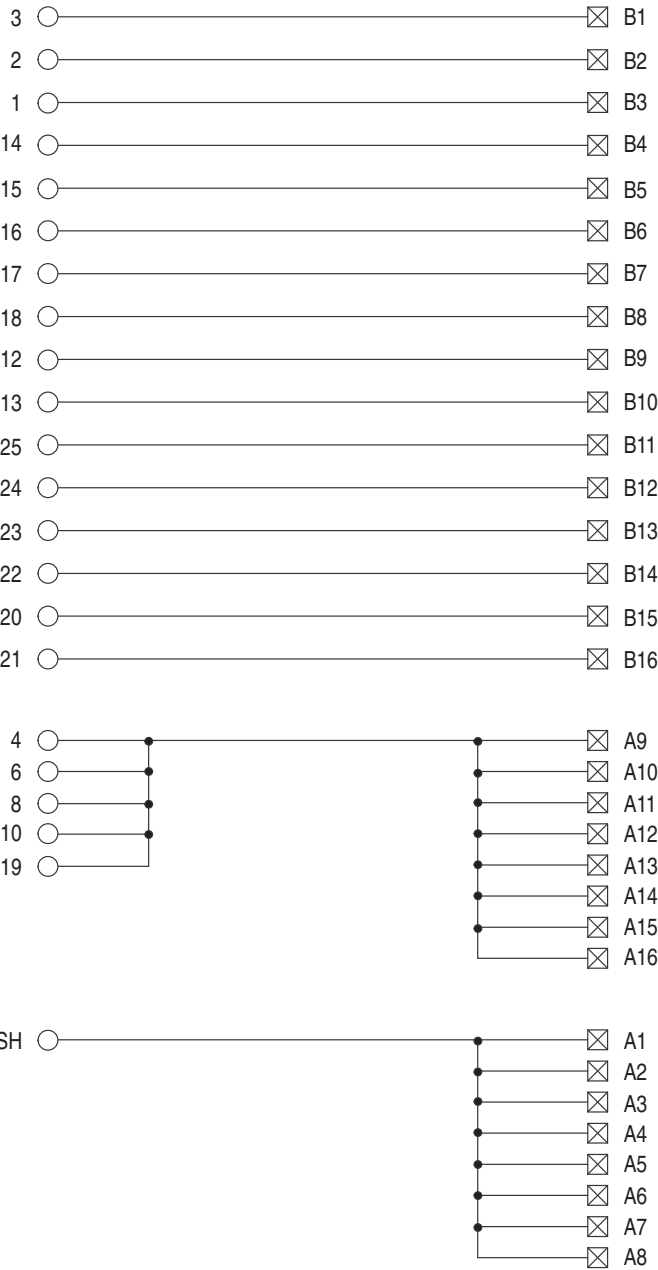


NOTICE	Refer to Publications 1770-4.1 for generally recommended wiring and shield grounding guidelines.
REMARQUE	Voir les publications 1770-4.1 pour les conseils généraux de mise à la masse des câbles blindés.
HINWEIS	Sehen Sie Publikationen 1770-4.1 DE für generell empfohlene Verdrahtungs- und Abschirmungsanweisungen.
NOTA	Per procedure di cablaggio e messa a terra dello schermo generalmente consigliate consultare le pubblicazioni 1770-4.1.
AVISO	Consulte las publicaciones 1770-4.1 para obtener las recomendaciones más comunes sobre cableado y pautas para conexión a tierra.



Pinout
Brochage
Anschlußbelegung
Disposizione dei piedini
Esquema de pins

1492-AIFM8-3
1492-RAIFM8-3



I/O Wiring Data

NOTICE

Wiring information for your I/O module, AIFM module and cable (e.g. wiring diagram and pinouts) are available online at www.rockwellautomation.com/en/e-tools. To obtain information follow this procedure.

- 1) In the Catalog Number BOX at the above online site type in the catalog number of the IFM, AIFM, etc. module you are using and click on Submit.
- 2) At the next screen displayed, click on the Modify key (lower left of screen).
- 3) Click on the areas that indicate NO SELECTION and enter your specific configuration information (e.g. I/O platform, I/O MODULE, ETC.). NOTE: To obtain the wiring diagram, you must select the Pre-Wired Cable Connector selection.
- 4) Configure your 1492 cable by filling in the NO SELECTION areas.
- 5) Click on the ACCEPT key for the configured 1492 cable. At the next screen click on ACCEPT for the 1492 module.
- 6) At the next screen (Configuration Results) displays the results of your specific configuration. The "supplementary Documents" column contains I/O wiring information for the configuration (e.g. I/O Wiring Diagrams).

Specifications
Spécifications
Technische Daten
Specifiche
Especificaciones

Catalog No. Référence Bestell-Nr. N. Catalogo Referencia	Voltage Tension Spannung Tensione Voltaje	Current / Circuit Courant / Circuit Strom / Schaltkreis Corrente / circuito Intensidad / circuito	Current / Module Courant / Module Strom / Modul Corrente / modulo Intensidad / módulo	#Terminals / Shield Common Nbre bornes / blindage commun Anzahl der Terminals / Abschirmungsmasse #Terminali / comune dello schermo #Terminales / Protector común	Operating Temperature Range Plage températures de fonctionnement Betriebstemperaturbereich Limiti temperatura di funzionamento Rango de temperatura de funcionamient
1492-AIFM8-3 1492-RAIFM8-3	0 - 132V AC/DC	2 Amps	12 Amps	8	0° C - 60° C

Catalog No. Référence Bestell-Nr. N. Catalogo Referencia	Maximum Recurring Peak Voltage ② Tension de crele réurrente maximale Maximale periodische Hochstspannung Tensione massima di cresta ricorrente Voltaje de cresta iterativo máximo	Humidity Humidité Feuchtigkeit Humedad Umidità	Approx. Shipping Weight Poids d'embarquement approximatif Ungefähres Versandgewicht Peso approssimativo del carico Peso aproximado al momento de embarque	Dimensions Dimensions Abmessungen Dimensioni Dimensiones	Standards Normes Standards Standard Estándares
1492-AIFM8-3 1492-RAIFM8-3	600 Vp ②	5 - 95% ③	.64 lb. (289 g)	⑤ 4.33 in. (110 mm) W 3.27 in. (83 mm) H 2.74 in (69.5 mm) D	cULus (File: E10314, Guide No. NRAG) Suitable for use in Class 1 Div 2 Groups A, B, C and D Hazardous and Non-Hazardous Locations. Temperature Code = T3C at 60°C ④ CE: Compliant for all applicable directives FM Class 1 Div 2 Groups A, B, C and D Temperature Rating T3C = 60°C (J.I. 3000590, all except relay modules)

- ② For transients > 600 Vp use a UL recognized suppression device rated at 2.5 kV withstand.
 Pour des transitoires > 600 Vp utilisez un dispositif de suppression certifié UL à 2,5 kV nominal de tenue.
 Für Einschaltstöße > 600 Vp verwenden Sie einen UL anerkannten Entstör器, der bewertet wurde bei 2,5 kV standzuhalten.
 Per transitori > 600 Vp usare dispositivo di soppressione riconosciuto da UL capace di sopportare 2,5 kV.
 Para transitorios > 600 Vp use un dispositivo de supresión reconocido UL clasificado con 2,5 kV.

- ③ Non-condensing
 Sans condensation
 Nicht kondensierend
 Senza condensa
 sin condensación

- ④ Power, input and output (I/O) wiring must be in accordance with Class I Division 2 wiring methods - Article 501-10(B)(1) of the National Electrical Code.



WARNING

Explosion Hazard - substitution of components may impair suitability for Class I Division 2.
 Explosion Hazard - Do Not Disconnect Equipment unless power has been switched off or the area is known to be Non-Hazardous.

- ⑤ Add 0.39 in. to the width dimension for 1492-Rxx type modules.

SURGE SUPPRESSION follow the literature recommendations of the PLC module being used.

La section **SUPPRESSION DES SURTENSIONS** se trouve à la suite de la littérature qui contient les recommandations relatives au module PLC utilisé.
ÜBERSpannungsschutz Bitte beachten Sie die Dokumentationsempfehlungen für das jeweils benutzte SPS-Modul.
 Per la **SOPPRESSIONE DEI PICCHI TEMPORANEI**, seguire le istruzioni riportate nella documentazione in dotazione al Modulo PLC utilizzato.
SUPRESIÓN DE SOBRETENSIÓN, siga las recomendaciones indicadas en la documentación del módulo PLC respectivo.

Reference Publications: Refer to 1770-4.1 and appropriate PLC I/O module installation manual.