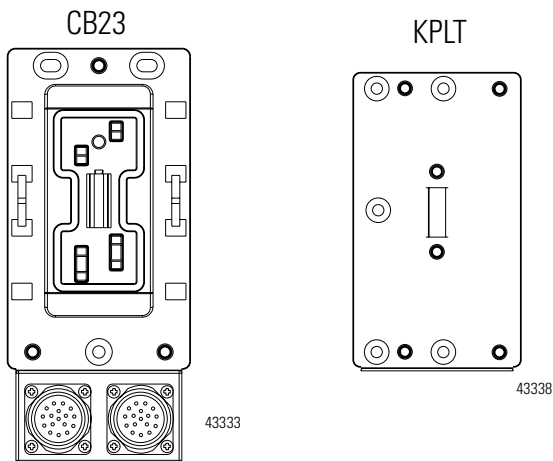




Installation Instructions

ArmorBlock MaXum Robot I/O Cable Base and Kempf Box Plate

(Cat. No. 1792D-CB23 and -KPLT)



The 23mm ArmorBlock MaXum™ Robot I/O Cable Base mates with 4 or 8 point modules, depending on your installation requirements, and optionally the Kempf box plate. No modification is required. Modules are interchangeable whether flat or round media cable bases are used. This interchangeability provides plug and play block upgrade capability and easy field replacement. The completely assembled ArmorBlock module and base requires no enclosure.

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These instructions describe the installation of the cable base. The catalog numbers for the cable base and Kempf box are:

- 1792D-CB23 (for 23mm trunk or drop cable installation)
- 1792D-KPLT (to mount the cable base on a Kempf box)

IMPORTANT

ArmorBlock MaXum modules and media cables are ordered and shipped separately.

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of these products must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards. In no event will Rockwell Automation be responsible or liable for indirect or consequential damage resulting from the use or application of these products.

Any illustrations, charts, sample programs, and layout examples shown in this publication are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, *Safety Guidelines for the Application, Installation and Maintenance of Solid-State Control* (available from your local Rockwell Automation office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this publication, notes may be used to make you aware of safety considerations. The following annotations and their accompanying statements help you to identify a potential hazard, avoid a potential hazard, and recognize the consequences of a potential hazard:

WARNING

Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION

Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Environment and Enclosure

This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC publication 60664-1), at altitudes up to 2000 meters without derating.

This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR Publication 11. Without appropriate precautions, there may be potential difficulties ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbance.

ATTENTION



This equipment is supplied as "enclosed" equipment. It should not require additional system enclosure when used in locations consistent with the enclosure type ratings stated in the Specifications section of this publication. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings, beyond what this product provides, that are required to comply with certain product safety certifications.

See NEMA Standards publication 250 and IEC publication 60529, as applicable, for explanations of the degrees of protection provided by different types of enclosure. Also, see the appropriate sections in this publication, as well as the Allen-Bradley publication 1770-4.1 ("Industrial Automation Wiring and Grounding Guidelines"), for additional installation requirements pertaining to this equipment.

Install Your ArmorBlock Cable Base

To install the cable base:

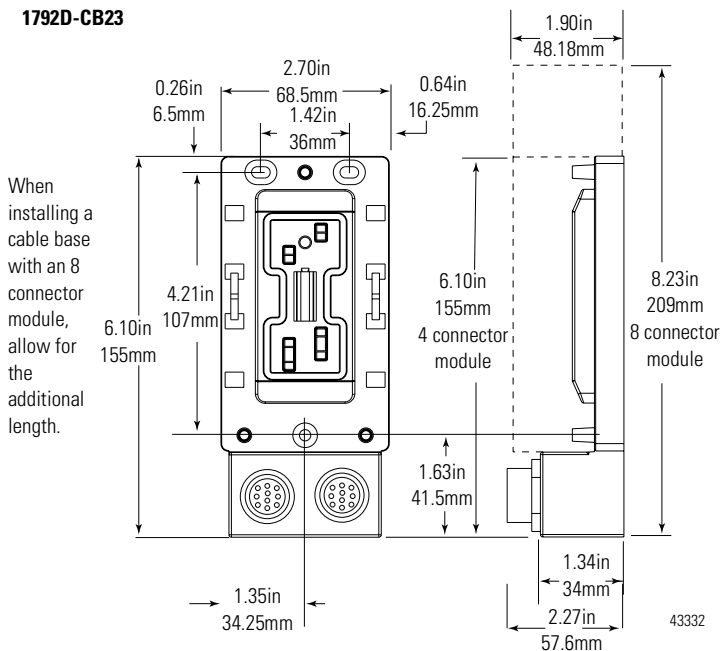
- Mount the cable base
- Attach the module to the base
- Attach the cables

These procedures are explained in detail in the following sections.

Mount the Cable Base

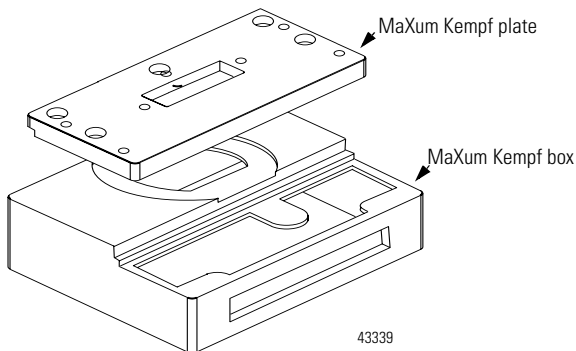
The cable base can be mounted either vertically or horizontally, using 3 screws. Cable bases accommodate 4 or 8 point ArmorBlock MaXum modules. You must allow additional space for installation of 8 point ArmorBlock MaXum module, which are longer than 4 point modules.

1792D-CB23

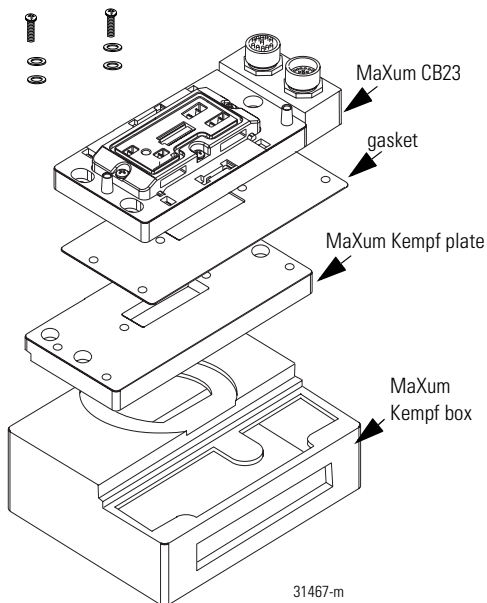


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1. Mount the MaXum Kempf plate to the Kempf box.



2. Mount the CB23 cable base to the gasket and the Kempf box. The mounting instructions are illustrated below.



Attach the Module to the Base

IMPORTANT

Make sure you properly align the screws to complete the connections between the module contacts and the cable contacts.

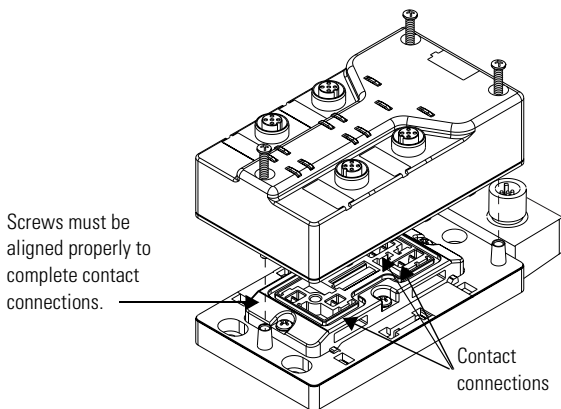
1. Position the module over the mounted cable base. Align the three captive screws in the module with the accepting receptacles in the base.
2. Tighten the screws with a torque of 8 inch-pounds to secure the module to the base.

WARNING



If you insert or remove the module while backplane power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.



A armorBlock MaXum I/O modules are described in the following publications:

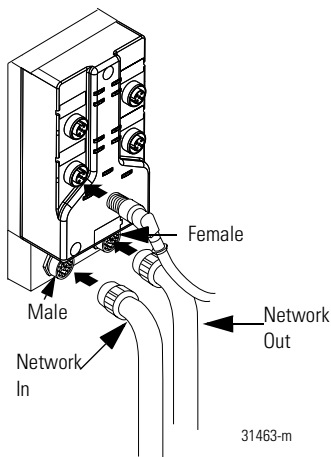
- 1792D series of armorBlock MaXum Installation Instructions
- 1792-TD001 armorBlock Technical Data

The DeviceNet Network uses advanced network technology, producer/consumer communication, to increase network functionality and throughput. Visit our web site at <http://www.ab.com/networks> for producer/consumer technology information and updates.

Attach the Cables

1. Attach your network cable and power cable (if used) to the connectors.
2. Cover the power connector with a cap if it is not used.

3. Attach your I/O connector cables.

**WARNING**

If you connect or disconnect the DeviceNet cable with power applied to this module or any device on the network, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.

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WARNING



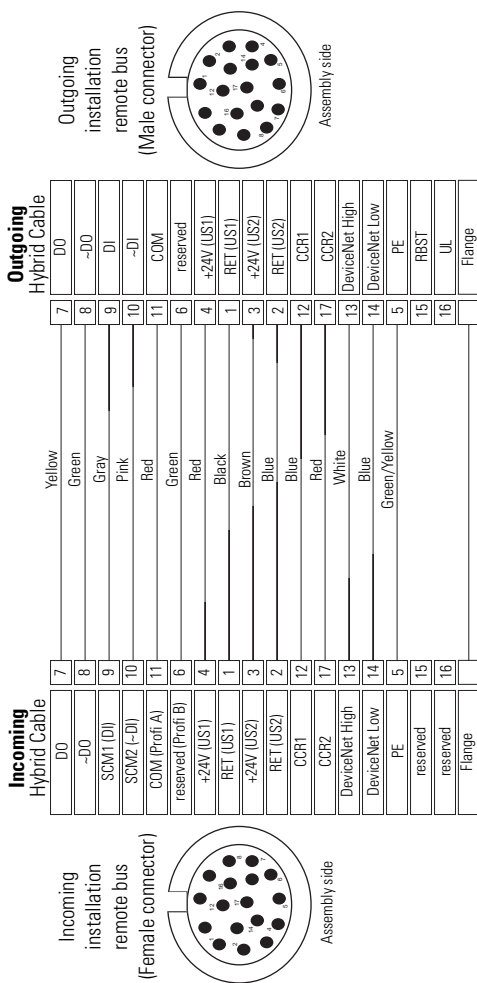
Use supply wires suitable for 30°C above surrounding ambient.

WARNING



If you connect or disconnect wiring while the field-side power is on, an electrical arc can occur. This can cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

Use the graphics below to connect DeviceNet cable to your module.



CCR = Constant current regulation
SCM = Secondary circuit monitoring

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Specifications

Robot I/O Cable Bases - Cat. No. 1792D-CB23 & -KPLT

General Specifications

For general specifications, see the ArmorBlock MaXum module's documentation or the Technical Data, publication number 1792-TD001. The specifications listed in these publications are for the assembled module and cable base.

Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations:	Informations sur l'utilisation de cet équipement en environnements dangereux :
<p>Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.</p>	<p>Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.</p>
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p style="background-color: black; color: white; padding: 2px 5px; font-weight: bold; font-size: 0.8em;">WARNING</p>  </div> <div> <p style="font-weight: bold; margin-bottom: 10px;">EXPLOSION HAZARD</p> <ul style="list-style-type: none"> Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product. Substitution of components may impair suitability for Class I, Division 2. If this product contains batteries, they must only be changed in an area known to be nonhazardous. </div> </div>	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p style="background-color: black; color: white; padding: 2px 5px; font-weight: bold; font-size: 0.8em;">AVERTISSEMENT</p>  </div> <div> <p style="font-weight: bold; margin-bottom: 10px;">RISQUE D'EXPLOSION</p> <ul style="list-style-type: none"> Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit. La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2. S'assurer que l'environnement est classé non dangereux avant de changer les piles. </div> </div>

This product has been tested at an Open DeviceNet Vendor Association, Inc. (ODVA) authorized independent test laboratory and found to comply with ODVA Conformance Test. Please contact the ODVA website (<http://www.odva.org>) for listing of products tested by ODVA independent test labs for further details.

Notes:

Rockwell Automation Support

Rockwell Automation tests all of our products to ensure that they are fully operational when shipped from the manufacturing facility.

If you are experiencing installation or startup problems, please review the troubleshooting information contained in this publication first. If you need technical assistance to get your module up and running, please contact Customer Support (see the table below); our trained technical specialists are available to help.

If the product is not functioning and needs to be returned, contact your distributor. You must provide a Customer Support case number to your distributor in order to complete the return process.

Phone	United States/Canada	1.440.646.5800
	Outside United States/Canada	You can access the phone number for your country via the Internet: <ol style="list-style-type: none">1. Go to http://support.rockwellautomation.com/2. Under <i>Contacting Customer Support and Other Countries</i>, click on <i>Click here</i>
Internet	Worldwide	Go to http://support.rockwellautomation.com/

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