



## Regulatory Approvals

Allen-Bradley Terminal Block, Circuit Protection, and Interface Module products generally have been designed to meet the requirements of one or more regulatory bodies. Most products have also been tested per additional standards. The following is a listing of some of the regulatory bodies and standards which apply to Allen-Bradley terminal block products. See the particular product description for information on specific approvals and ratings.

 (Underwriters Laboratories) — Devices in this catalog with one of these ratings have been tested by Underwriters Laboratories and meet the requirements of one or more of the following United States Standards:


- UL 467 — Grounding and Bonding Equipment
- UL 508 — Standard for Industrial Control Equipment
- UL 512 — Standard for Fuseholders
- UL 486E — Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors
- UL 1059 — Standard for Terminal Blocks
- UL 1077 — Standard for Supplementary Protectors

Reference UL files E34648, E40735, E65138, E113724, E160646

 (Underwriters Laboratories) — Devices in this catalog with this rating have been tested by Underwriters Laboratories and meet the requirements of one or more of the following Canadian Standards:


- CSA 22.2 No. 14-M95 — Industrial Control Equipment
- CSA 22.2 No. 158 — Terminal Blocks

Reference UL file E40735

 (Canadian Standards Association) — Devices in this catalog with this rating have been tested by the Canadian Standards Association and meet the requirements of one or more of the following Canadian Standards:

- CSA 22.2 No. 14-M95 — Industrial Control Equipment
- CSA 22.2 No. 39 — Fuseholders
- CSA 22.2 No. 158 — Terminal Blocks
- CSA 22.2 No. 235 — Supplementary Protectors

Reference CSA files LR1234, LR14074, LR19766, LR37712, LR67896

 Terminal blocks, interface modules, and circuit protection devices listed in this catalog (with the exception of the 1492-15T, -25T, -EC85, -ED103, -WTC3E, -WTC3J, -WTC3K, and -WTC3T) meet the requirements of the Low Voltage Directive put forth by the European Union. Devices have been tested and comply with one or more of the following European Norms:

- EN 60934 — Circuit Breakers for Equipment
- EN 60947-1 — Low Voltage Switchgear and Controlgear: General Rules
- EN 60947-7-1 — Low Voltage Switchgear and Controlgear: Terminal Blocks for Copper Conductors
- EN 60947-7-2 — Low Voltage Switchgear and Controlgear: Protective Conductor Terminal Blocks for Copper Conductors

**IEC** (International Electrotechnical Commission) — Devices listed in this catalog with IEC ratings meet the requirements of one or more of the following standards:

- IEC 934 — Circuit Breakers for Equipment
- IEC 947-1 — Low Voltage Switchgear and Controlgear: General Rules
- IEC 947-7-1 — Low Voltage Switchgear and Controlgear, Part 7: Ancillary Equipment, Section 1: Terminal Blocks for Copper Conductors
- IEC 947-7-2 — Low Voltage Switchgear and Controlgear, Part 7: Ancillary Equipment, Section 2: Protective Conductor Terminal Blocks for Copper Conductors

**EEx e II** — Devices listed in this catalog with “EEx e II” ratings meet the following European Norms per DEMKO, an Approval Certification Body for the European Union:

- EN 50014 — Electrical Apparatus for Potentially Explosive Atmospheres — General Requirements
- EN 50019 — Electrical Apparatus for Potentially Explosive Atmospheres — Increased Safety “e”

Details exist in DEMKO Certificate Number 97D.122398U.

**Ex e II** — Devices listed in this catalog with an “Ex e II” rating meet the following Canadian Standards per Underwriters Laboratories:

- E79-0-95 — Electrical Apparatus for Explosive Atmospheres — Part 0 — General Requirements
- E79-7-95 — Electrical Apparatus for Explosive Atmospheres — Part 7 — Increased Safety “e”

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022

**AEx e II** — Devices listed in this catalog with an “AEx e II” rating meet the following United States Standard per Underwriters Laboratories:

- UL 2279 — Standard for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations
- These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E187022

**Lloyd's Register** — Many 1492-W, 1492-H, and 1492-R terminal blocks in this catalog have been approved for use in marine, off-shore, and industrial installations per the following standard:

- Lloyd's Register Test Specification No. 1:1996

Contact your local Allen-Bradley Sales Office for a copy of the certificate.

### The Allen-Bradley Line of IEC Terminal Blocks... International Products for a Worldwide Marketplace

Allen-Bradley's Bulletin 1492-W line of internationally approved IEC style terminal blocks offers a wide range of features and benefits ideally suited for many industrial applications. The 1492-W line has been designed to meet the tough requirements of almost every industrial application. Functional, internationally approved, finger-safe, and cost-effective — the Allen-Bradley 1492-W line.

#### Products Available in the 1492-W Line

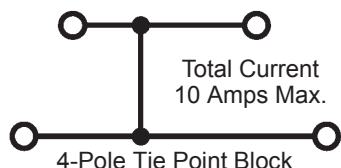
Our family of IEC terminal blocks consists of many different types of blocks, from general feed-through terminal blocks for control wiring to specialty blocks for grounding and isolating. We even offer thermocouple terminal blocks, specifically designed for temperature-dependent process control applications.

Products offered within the 1492-W line include:

- **Feed-Through Blocks**, capable of accommodating #22...3/0 AWG (0.5...70 mm<sup>2</sup>) wire
- **Grounding Blocks** for connecting a given circuit to a ground
- **Mini Blocks** for applications where panel space is at a premium
- **Two-Level Blocks** that double circuit wiring density
- **Multi-Conductor Blocks** that allow splitting or joining of control circuits
- **Three-Level Sensor Blocks** for coordination of three-wire sensor groups
- **Isolation Blocks** for circuit isolation during testing and troubleshooting
- **Fuse Blocks**, with and without blown fuse indication, for easily integrated overcurrent protection
- **Electrical Component Blocks** that allow the insertion of fixed components into control circuits. Available components include resistors, diodes, surge suppression circuits, and shunt bars.

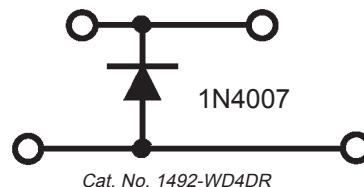
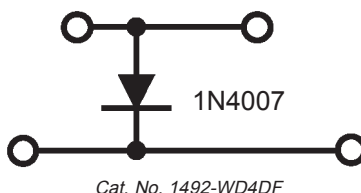
#### Tie-Point Block (Cat. No. 1492-WD4C)

Incorporates a shunt bar between the upper and lower current bars to provide a common point among all four terminals.



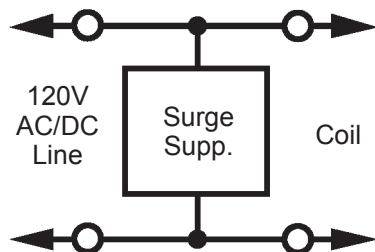
#### Diode Block (Cat. Nos. 1492-WD4DF, 1492-WD4DR)

Uses a 1N4007 diode between the upper and lower levels for insertion into a control circuit. This block is useful in low voltage DC control circuits for directioning and suppression.



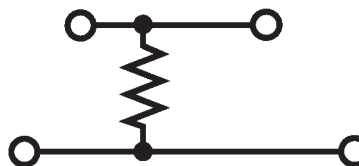
#### Surge Suppression Block (Cat. No. 1492-WD4SS)

Provides a convenient means of incorporating transient suppression for relays, contactors, and solenoids into a control system.



#### Resistor Block (Cat. No. 1492-WD4R)

Permits the introduction of a 1  $\Omega$ ...100 M $\Omega$  resistor into a control circuit.



- **Return Blocks** that have both terminations on the same side of the terminal block allowing the rail to be mounted next to the wall of an enclosure
- **Plug-In Style Blocks** that allow the insertion of removable plugs into control circuits. Available plugs include a Disconnect Plug, a Fuse Plug, and a Component Plug which accommodate various electrical components.
- **Installation Blocks** for space-saving distribution of phase, neutral, and ground conductors in single-phase circuits
- **Thermocouple Terminal Blocks** (Types E, J, K, T) for temperature control applications
- A wide variety of **Snap-In Markers** for individual or group circuit identification
- Multi-pole insulated **Center Jumpers** which provide a convenient method of commoning control circuits

### The Allen-Bradley Line of QuickClamp™ Terminal Blocks...

Allen-Bradley's new Bulletin 1492-R line of internationally approved screwless IEC-style terminal blocks offers a variety of products that can make any application:

- Fast — Reduces wiring time by more than 50%.
- Practical — Requires only a flat-head screwdriver for easy installation. Maintenance-free, no need to retighten.
- Reliable — Secure contact is durable under extreme conditions such as vibration sensitive applications.

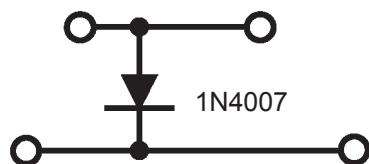
### Products Available in the QuickClamp™ Line

- **Feed-Through Blocks**, accommodating wire sizes from #26...#8 AWG
- **Grounding Blocks** to eliminate the need for a separate grounding bus or lug
- **Multi-Circuit Blocks** for doubling circuit wiring density
- **Isolation Blocks** for circuit isolation during testing and troubleshooting
- **Plug-In Style Terminal Blocks** accommodating component plugs, fuse plugs, and disconnect plugs
- **Sensor Blocks** for coordination of three-wire sensor groups with or without ground terminations
- **Electrical Component Blocks** which allow for the insertion of fixed components into control circuits. Components include resistors, diodes, and surge suppression circuits.

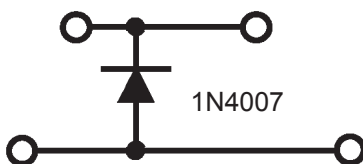
#### Diode Block

(Cat. Nos. 1492-RD3DF, 1492-RD3DR)

Uses a 1N4007 diode between the upper and lower levels for insertion into a control circuit. This block is useful in low voltage DC control circuits for directioning and suppression.



Cat. No. 1492-RD3DF

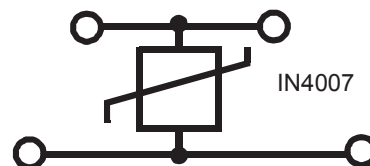


Cat. No. 1492-RD3DR

#### Surge Suppression Block

(Cat. No. 1492-RD3SS)

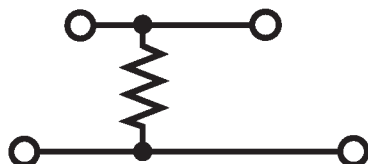
Provides a convenient means of incorporating transient suppression for relays, contactors and solenoids into a control system.



#### Resistor Block

(Cat. No. 1492-RD3R)

Permits the introduction of a 1 Ω...100 MΩ resistor into a control circuit.



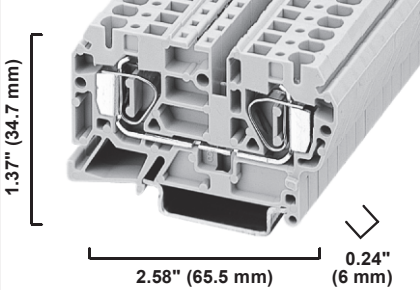
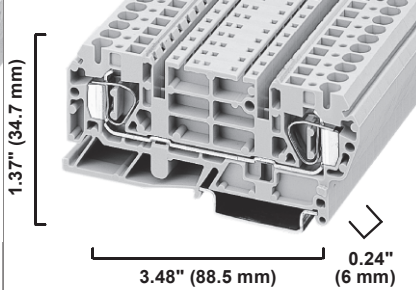
- **Test Blocks** for allowing a bank of pluggable terminal strips to be easily connected for test purposes
- A wide variety of snap-in markers, marking rods, and labels are available for individual or group circuit identification
- A broad offering of accessories such as screwless end anchors and combination end barriers/partition plates to provide exactly what the application requires
- Operating instructions (printed on an adhesive label), for application inside a panel

### Materials and Design Features

The 1492-R line is specially designed for safety, installation ease, and ruggedness. Features include:

- Tin-plated terminals and stainless steel spring clamps for superior resistance to corrosion and vibration
- Optimized spring clamp design to reduce stress relaxation and maintain contact force
- Top wire entry for ease of installation
- Interlocking feature which improves the rigidity of the terminal blocks on rail, allowing installation of several blocks at one time, and prevents open sides from touching
- Circuit testing with standard 2 mm diameter test probe and 1492-TA285 on all QuickClamp™ blocks, except sensor blocks (sensor blocks without LED indication allow test connection with 1492-TP15)
- Insulation stops to ensure electrical connection when using smaller gauge wires
- Markers that are visible after terminal blocks are wired
- Multiple marking options
- Common profiles to minimize stocking of accessories
- Self-extinguishing, polyimide 6.6 housing materials with a flammability rating UL 94-V2

**Note:** To ensure proper wire termination, these blocks are designed to accept only **one** wire per terminal.

		1492-R4		1492-R4DJ	
Dimensions are not intended to be used for manufacturing purposes. <b>Note:</b> Height dimension is measured from top of rail to top of terminal block.					
		Single-circuit terminal block.		Single-circuit terminal block with dual commoning locations.	
Approvals				IEC	EEx e II
Voltage Rating		600V	600V	800V	550V
Maximum Current		30 A	30 A	32 A	24 A
Wire Range (Rated Cross Section)		#22...#10 AWG (0.5...4.0 mm <sup>2</sup> )		#22...#10 AWG (0.5...4 mm <sup>2</sup> )	
Wire Strip Length		0.47" (12 mm)		0.47" (12 mm)	
Density		50 pcs./ft (166/m)		50 pcs./ft (166/m)	
Insulation Temperature Range		-40...+195°F (-40...+90°C)		-40...+195°F (-40...+90°C)	
<b>Terminal Blocks</b>		<b>Cat. No.</b>	<b>Pcs./Pkg.</b>	<b>Cat. No.</b>	<b>Pcs./Pkg.</b>
Color:	Gray	1492-R4	50	1492-R4DJ	25
	Red	1492-R4-RE	50	1492-R4DJ-RE	25
	Blue	1492-R4-B	50	1492-R4DJ-B	25
	Black	1492-R4-BL	50	1492-R4DJ-BL	25
	Green	1492-R4-G	50	1492-R4DJ-G	25
	Yellow	1492-R4-Y	50	1492-R4DJ-Y	25
	Orange	1492-R4-OR	50	1492-R4DJ-OR	25
	White	1492-R4-W	50	1492-R4DJ-W	25
<b>Accessories</b> (page 185)		<b>Cat. No.</b>	<b>Pcs./Pkg.</b>	<b>Cat. No.</b>	<b>Pcs./Pkg.</b>
Mounting Rails:					
1 m Symmetrical DIN (Steel)		199-DR1	10	199-DR1	10
1 m Symmetrical DIN (Aluminum)		1492-DR5	10	1492-DR5	10
1 m Hi-Rise Sym. DIN (Aluminum)		1492-DR6	2	1492-DR6	2
1 m Angled Hi-Rise Sym. DIN (Steel)		1492-DR7	2	1492-DR7	2
Terminal Cover/Partition Plate		1492-TC4	50	1492-TC4Q	25
Group Marking Carrier/End Retainer		1492-ER35	50	1492-ER35	50
Jumpers: ①					
Center Jumper — 10-pole		1492-CJR6-10	10	1492-CJR6-10	10
Center Jumper Link		1492-CJRL6	10	1492-CJRL6	10
Other Accessories:					
Insulation Stop 0.5 mm <sup>2</sup> wire (#22...#20 AWG)		1492-PS4-05	10	1492-PS4-05	10
Insulation Stop 0.75...1.5 mm <sup>2</sup> wire (#18...#16 AWG)		1492-PS4-15	10	1492-PS4-15	10
Marking Systems:					
Snap-In Marker					
	9 mm	1492-SM6X9	5	1492-SM6X9	5
	12 mm ②	1492-SM6X12	5	1492-SM6X12	5
Marking Rod					
	9 mm	1492-MR9	25	1492-MR9	25
	15 mm ②	1492-MR15	25	1492-MR15	25
Adhesive Label					
	9 mm	1492-AL9	1	1492-AL9	1
	15 mm	1492-AL15	1	1492-AL15	1

① Jumpers also available pre-cut in 2-...9-pole configurations. See page 185.

② Covers the center jumper area, except on the 1492-R4DJ.

## Examples and Specifications for Custom Marking Cards

### Terminal Block Marker Coordination Table

The table below coordinates the marker card with a given terminal block or terminal block prefix.

1492-SM5X5C	1492-SM5X9C		1492-SM5X12C	1492-SM6X9C		1492-SM6X12C	
1492-CP4 1492-WM3 1492-WMD1 Point I/O	1492-R3 1492-R3Q 1492-R3T 1492-RC3 1492-RKD3 1492-RTS2 1492-W3TW 1492-WD3 1492-WKD3 1492-WKD3TP 1492-WR3 1492-WTC3E 1492-WTC3J 1492-WTC3K	1492-RD3 1492-RD3DF 1492-RD3DR 1492-RD3RB 1492-RD3SS 1492-RG3 1492-RTSG2 1492-WTC3T 1492-WTF3 1492-WTF3LN 1492-WTF3LP 1492-WTS3 1492-WTS3LN 1492-WTS3LP	1492-R3 ❸ 1492-R3Q ❸ 1492-R3T ❸ 1492-RC3 1492-RD3 ❸ 1492-RD3DF ❸ 1492-RD3DR ❸ 1492-RD3RB ❸ 1492-RD3SS ❸ 1492-RG3 1492-RKD3 ❸ 1492-W3	1492-FP4 1492-FP424 1492-FP4250 1492-R4DJ 1492-R4 1492-R4P 1492-R4Q 1492-R4T 1492-RG4 1492-WD4 1492-WD4C 1492-WD4DF 1492-WD4DR 1492-WD4P 1492-WD4PTP 1492-WD4RA 1492-WDG4ND 1492-WDG4NSS 1492-WM4	1492-WD4N 1492-WD4PSS 1492-WD4PSSTP 1492-WD4RC001 1492-WD4SS 1492-WDG4N 1492-WDG4P 1492-WDG4PTP 1492-WDG4PSS 1492-WDG4PSSTP 1492-WFB4 ❶ 1492-WFB424 ❶ 1492-WFB4250 ❶ 1492-WMG4	1492-EA35 1492-R4 ❸ 1492-R4Q ❸ 1492-R4T ❸ 1492-W16 1492-W16S 1492-W35 1492-W4 1492-W4PTP 1492-W6 1492-W70 1492-WD6	1492-R4DJ 1492-R4P ❸ 1492-RG4 1492-W4P 1492-WG4 1492-WG6 1492-WG10 1492-WG16 1492-WG35 1492-WKD6 1492-WLD10 1492-WLD10C
1492-SM8X12C	1492-SM8X9C	1492-SMN81C	1492-SMN83C				
1492-ER35 1492-H4 1492-H5 1492-H6 1492-H7 1492-R6 ❸ 1492-R6T ❸ 1492-RG6 1492-W10 1492-WFB4 ❷ 1492-WFB424 ❷ 1492-WFB4250 ❷ 1492-WG10S	1492-ER35 1492-H4 1492-H5 1492-H6 1492-H7 1492-R6 1492-R6T 1492-RG6	1492-WFB10... 1492-HM1 1492-HM2 1492-HM2... 1492-HM3 1492-UF3	1492-CB... 1492-GH... 1492-GS... 1492-WFB10... ❶				

- ❶ Handle Marker Size.
- ❷ Base Marker Size.
- ❸ Marker will block center jumper access.

### Maximum Marking Parameters

The following table shows the maximum number of characters allowed per label.

Marker Type	Number of Markers	Width (mm)	Height (mm)	Marker Orientation			
				Horizontal		Vertical	
				Rows	Characters per Row	Rows	Characters per Row
1492-SM5X5	100	5	5	2	4	2	4
1492-SM5X9	100	5	9	4	4	2	8
1492-SM5X12	100	5	12	5	4	2	10
1492-SM6X9	100	6	9	4	5	2	8
1492-SM6X12	100	6	12	5	5	2	10
1492-SM8X9	100	8	9	4	7	3	8
1492-SM8X12	100	8	12	5	7	3	10
1492-SMN81	100	6	10	4	5	2	9
1492-SMN83	50	10	10	4	8	4	9

**Multiple Wire Connection Combinations for Stranded Copper Conductors of the Same Cross Section for Allen-Bradley Terminal Blocks, Continued**

QuickClamp Terminal Blocks													
Cat. No.	Wire Size AWG (mm <sup>2</sup> )												
	#30	#26	#24 (0.2)	#22	#20 (0.5)	#18 (0.75)	#16 (1.5)	#14 (1.5)	#12 (2.5)	#10 (4)	#8 (6)	#6 (10)	#4 (16)
	Number of the Same Size Wires Per Terminal												
1492-RTS2, -RTS2LN, -RTS2LP, -RTSG2, -RTSG2LN, -RTSG2LP	—	1	1	1	1	1	1	1	—	—	—	—	—
1492-R3, -R3T, -R3Q, -RD3, -RKD3, -RG3, -RC3	1	1	1	1	1	1	1	1	1	—	—	—	—
1492-R4, -R4DJ, -R4T, -R4P, -R4Q, -RAFB4, -RD4, -RFB4, -RG4	—	—	—	1	1	1	1	1	1	1	—	—	—
1492-R6, -R6T, -RG6	—	—	—	1	1	1	1	1	1	1	1	—	—
1492-R10, -RG10	—	—	—	—	—	—	1	1	1	1	1	1	—
1492-R16, -RG16	—	—	—	—	—	—	—	1	1	1	1	1	1

NEMA Rated Terminal Blocks (mm²)												
Cat. No.	Wire Size AWG											
	#22	#20 (0.5)	#18 (0.75)	#16 (1.5)	#14 (2.5)	#12 (4)	#10 (6)	#8 (10)	#6 (16)	#4 (25)	#2 (35)	#1/0 (50)
	Number of the Same Size Wires Per Terminal											
1492-F1 ❶, -F2 ❶, -F8 ❶	3	3	3	2	1	—	—	—	—	—	—	—
1492-CA1 ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CA1L ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CAM1 ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CAM1L ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CA2 ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CAM2 ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-CD2 ❶	—	—	—	—	4	3	2	2	1	1	—	—
1492-CE2 ❶	—	—	—	—	—	4	4	4	3	2	1	1
1492-CD8 ❶	4	4	4	3	2	2	1	—	—	—	—	—
1492-CE6 ❶	4	4	4	3	2	2	1	—	—	—	—	—
1492-CE9 ❶	4	4	4	3	2	2	1	—	—	—	—	—
1492-H1, -HM1 ❶	4	4	3	2	2	1	—	—	—	—	—	—
1492-H2, -HM2 ❶❶	4	4	3	2	2	1	—	—	—	—	—	—
1492-H4, -H5, -H6, -H7	4	4	3	2	2	1	—	—	—	—	—	—
1492-HC6	4	4	3	2	2	1	—	—	—	—	—	—
1492-HM3 ❶	4	4	4	3	2	2	1	1	—	—	—	—
1492-UF3	4	4	3	2	2	1	—	—	—	—	—	—

❶ Also colors.

❷ Also Cat. No.s 1492-H2D, -H2R, -H2K, -H2C, -H2V, -HM2D, -HM2R, -HM2K, -HM2C, -HM2V.