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

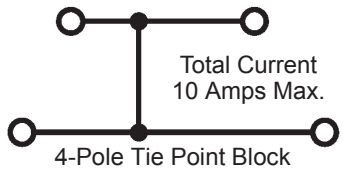
Our family of IEC terminal blocks consists of many different types of blocks, from general feed-through terminal blocks for control wiring to specialty blocks for grounding and isolating. We even offer thermocouple terminal blocks, specifically designed for temperature-dependent process control applications.

Products offered within the 1492-W line include:

- **Feed-Through Blocks**, capable of accommodating #22…3/0 AWG (0.5…70 mm^2) 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.

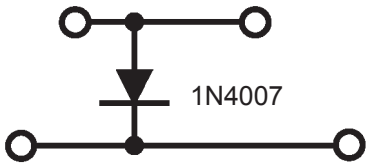
Tie-Point Block
(Cat. No. 1492-WD4C)

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

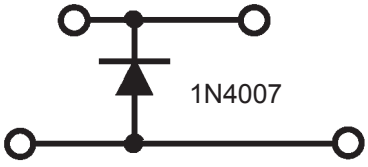


Diode Block
(Cat. Nos. 1492-WD4DF, 1492-WD4DR)

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.



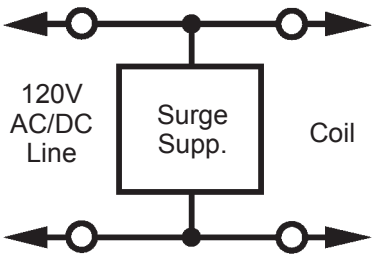
Cat. No. 1492-WD4DF



Cat. No. 1492-WD4DR

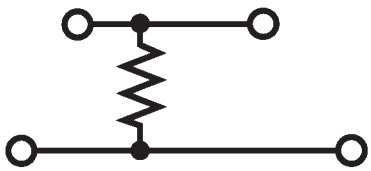
Surge Suppression Block
(Cat. No. 1492-WD4SS)

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 Ω…100 MΩ resistor into a control circuit.

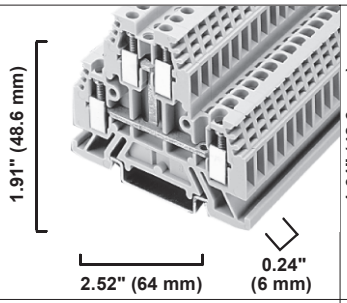
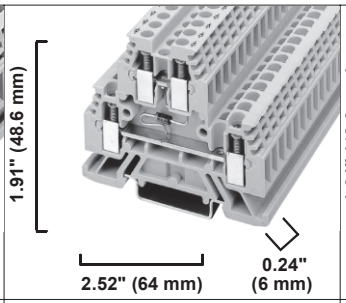
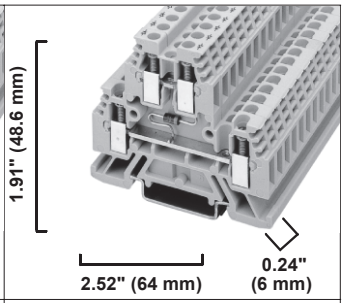


- **Return Blocks** that have both terminations on the same side of the terminal block allowing the rail to be mounted next to the wall of an enclosure
- **Plug-In Style Blocks** that allow the insertion of removable plugs into control circuits. Available plugs include a Disconnect Plug, a Fuse Plug, 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

Materials and Design Features

The 1492-W line is specially designed for safety, installation ease, and ruggedness. Features using these design criteria include the following:

- Nickel-plated terminals and stainless steel screws for superior corrosion resistance
- High copper content copper-alloy for excellent conductivity
- Four-sided wire funnel guides for easy wire insertion
- Finger-safe housings to prevent accidental contact with live circuits
- International approvals for worldwide use
- DIN Rail (199-DR1) mountability allowing terminal blocks to be placed on the same channel as contactors, starters, relays, and other DIN Rail-mounted control devices
- Self-extinguishing, polyamide 6.6 housing material with UL 94-V2 flammability rating
- Backed out screws for fast wiring
- CE mark for use in the European Union

	1492-WD4C				1492-WD4DF			1492-WD4DR		
Dimensions are not intended to be used for manufacturing purposes. **Note:** Height dimension is measured from top of rail to top of terminal block.										
Specifications	*Two-level terminal block with a commoning bar between the upper and lower levels, providing multiple outputs.*				*Two-level terminal block with a diode in forward bias between the upper and lower levels.*			*Two-level terminal block with a diode in reverse bias between the upper and lower levels.*		
Approvals	cULus	EEx e II	CSA	IEC	cULus	CSA	IEC	cULus	CSA	IEC
Voltage Rating	300V AC/DC	420V	300V AC/DC	500V AC/DC	300V AC/DC	300V AC/DC	500V AC/DC	300V AC/DC	300V AC/DC	500V AC/DC
Maximum Current	20 A	32 A	20 A	32 A	1 A (Diode)	1 A (Diode)	1 A (Diode)	1 A (Diode)	1 A (Diode)	1 A (Diode)
Wire Range (Rated Cross Section)	#22…#12 AWG	4 mm²	#22…#12 AWG	0.5…4 mm²	#22…#12 AWG	#22…#12 AWG	0.5…4 mm²	#22…#12 AWG	#22…#12 AWG	0.5…4 mm²
Resistor Type	—				—			—		
Resistor Range	—				—			—		
Working Voltage	—				Diode 1N4007 ❶			Diode 1N4007 ❶		
Wire Strip Length	0.39" (10 mm)				0.39" (10 mm)			0.39" (10 mm)		
Recommended Tightening Torque	5.0…5.6 lb-in. (0.6 Nm)				5.0…5.6 lb-in. (0.6 Nm)			5.0…5.6 lb-in. (0.6 Nm)		
Density	50 pcs./ft (166/m)				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)			–40…+195°F (–40…+90°C)		
Terminal Blocks	**Cat. No.**			**Pcs./ Pkg.**	**Cat. No.**		**Pcs./ Pkg.**	**Cat. No.**		**Pcs./ Pkg.**
Terminal Block	1492-WD4C			50	1492-WD4DF		1	1492-WD4DR		1
Accessories (page 185)	**Cat. No.**			**Pcs./ Pkg.**	**Cat. No.**		**Pcs./ Pkg.**	**Cat. No.**		**Pcs./ Pkg.**
Mounting Rails: 1 m Symmetrical DIN (Steel)	199-DR1			10	199-DR1		10	199-DR1		10
1 m Symmetrical DIN (Aluminum)	1492-DR5			10	1492-DR5		10	1492-DR5		10
1 m Hi-Rise Sym. DIN (Aluminum)	1492-DR6			2	1492-DR6		2	1492-DR6		2
1 m Angled Hi-Rise Sym. DIN (Steel)	1492-DR7			2	1492-DR7		2	1492-DR7		2
End Barrier	1492-EBD3			50	1492-EBD3		50	1492-EBD3		50
End Anchors: DIN Rail — Normal Duty	1492-EA35			50	1492-EA35		50	1492-EA35		50
DIN Rail — Heavy Duty	1492-EAH35			10	1492-EAH35		10	1492-EAH35		10
Jumpers: Insulated Side Jumper	1492-N42 (2-pole) 1492-SJ6-10 (10-pole)			50 10	1492-N42 (2-pole) 1492-SJ6-10 (10-pole)		50 10	1492-N42 (2-pole) 1492-SJ6-10 (10-pole)		50 10
Center Jumper — 50-pole	1492-CJD6-50			5	1492-CJD6-50		5	1492-CJD6-50		5
Center Jumper — 10-pole	1492-CJD6-10			10	1492-CJD6-10		10	1492-CJD6-10		10
Center Jumper — 3-pole	1492-CJD6-3			10	1492-CJD6-3		10	1492-CJD6-3		10
Center Jumper — 2-pole	1492-CJD6-2			10	1492-CJD6-2		10	1492-CJD6-2		10
Center Jumper Link	1492-CJDL6			10	1492-CJDL6		10	1492-CJDL6		10
Other Accessories: Partition Plate	1492-PPD3			50	1492-PPD3		50	1492-PPD3		50
Separation Plate	1492-SPD3			10	1492-SPD3		50	1492-SPD3		50
Test Plug	1492-TP28			10	1492-TP28		10	1492-TP28		10
Test Plug Adapter	1492-TA40			10	1492-TA40		10	1492-TA40		10
Group Marking Carrier	1492-GM35			10	1492-GM35		10	1492-GM35		10
Marking Systems: Snap-in Marker Card	1492-SM6X9			5	1492-SM6X9		5	1492-SM6X9		5
Individual Marker Tabs (single char.)	1492-MP ❷			10	1492-MP ❷		10	1492-MP ❷		10

❶ See Page 216 for Component Specifications.
❷ Cat. no. is not complete. See page 186.

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/0	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