

# Discrete IO Product Catalog 2017

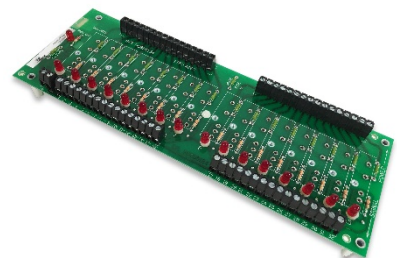
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## DISCRETE IO BOARDS

### HOME / DISCRETE IO BOARDS

WRC offers an extensive range of mounting boards for all versions of WRC discrete I/O modules as well as other vendors modules. The general types available include:

- 1781 slim series of mounting boards are available for 1, 4, 8 , , and 32 points of I/O and provide the space savings available use of the 1781 series of slim modules.
- 1781 quad mounting boards are available for 24 or 32 points quad I/O
- WRC4 series of mounting boards provide a selection of 1, 4, and 24 points of I/O in different configurations to meet you application needs.
- 1771 series of mounting boards are available to handle the and 0.6" size modules in 8 or 16 point configurations.



16, 24  
by the  
of  
8, 16,  
slim,

Choose the logic side connection to meet your application from card-edge connector, 50-conductor header connector, or terminal screws for point to point wiring.

Mounting options include the traditional panel mounting swaged stand-off as well as the convenient DIN-Rail mounting.

Consult the following table for details showing the options available.

Custom DIN-rail mounting board sizes may be available. Consult WRC or your local distributor for details.

All units are UL recognized and CE compliant.

Part Number	Classic I/O	Slim I/O	WRC4 I/O	Quad I/O	Wire Gauge	Logic Connector
1771-JMB	16	16	—	—	12-22	Edge

Part Number	Classic I/O	Slim I/O	WRC4 I/O	Quad I/O	Wire Gauge	Logic Connector
1771-JMB8	8	8	0	0	0	Terminals
1771-JMBH	16	16	—	—	12-22	Edge & Header
1781-A16A	—	16	—	—	14-22	Edge
1781-A16H	—	16	—	—	14-22	Header
1781-A16T	—	16	—	—	14-22	Terminals
1781-A24A	—	24	—	—	14-22	Edge
1781-A24H	—	24	—	—	14-22	Header
1781-A24H2	24	24	—	—	14-22	Edge & Header
1781-A32A2	—	32	—	—	14-22	Edge & Header
1781-A32H2	—	32	—	—	14-22	Edge & Header
1781-A4R	4 out	4 out	—	—	12-22	Terminals
1781-A4T	4	4	—	—	12-22	Terminals
1781-A6QA	—	—	—	6	12-22	Edge
1781-A6QH	—	—	—	6	14-22	Header
1781-A8A	—	8	—	—	14-22	Edge
1782-A16R	—	16	—	—	14-22	Terminals
1782-IBAS	—	1	—	—	14-22	Terminals
WRC4-A16H	—	—	16	—	12-22	Header
WRC4-A16I	—	—	16	—	12-22	Terminals
WRC4-A16T	—	—	16	—	12-22	Terminals
WRC4-A24H(2)	—	—	24	—	12-22	Header
WRC4-A4T	—	—	4	—	12-22	Terminals
WRC4-A8H	—	—	8	—	12-22	Header
WRC4-A8T	—	—	8	—	12-22	Terminals
WRC4-IBAS	—	—	1	—	14-22	Terminals

## WRC4 MODULES

### HOME/DISCRETE I/O SERIES /WRC4 MODULES

WRC4 Series Discrete I/O expands WRC's complete line of discrete I/O modules. These modules provide an indication LED and replaceable fuse. They also meet an industry de facto standard pin-out.

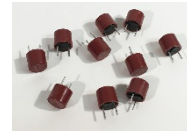


Part Number	Part Type	Nominal Field Voltage	Industry Model	Field Voltage Range	Nominal Logic Voltage	Logic Voltage Range
WRC4-IA5S	Input	120	*4-IAC5	90-140 V	5V	1.5-6 V
WRC4-IAXS	Input	120	W4-IAC24	90-140 V	24V	16.5-30.5 V
WRC4-IAYS	Input	120	W4-IAC15	90-140 V	15V	8.5-19 V
WRC4-IB5S	Input	24	W4-IDC5	3.3-32 V	5V	1.5-6 V
WRC4-IBXS	Input	24	W4-IDC24	3.3-32 V	24V	16.5-30.5 V
WRC4-IBYS	Input	24	W4-IDC15	3.3-32 V	15V	8.5-19 V
WRC4-IM5S	Input	240	W4-IAC5A	180-280 V	5V	1.5-6 V
WRC4-IMXS	Input	240	W4-IAC24A	180-280 V	24V	16.5-30.5 V
WRC4-IMYS	Input	15V	W4-IAC15A	240	180-280 V	8.5-19 V
WRC4-IN5S	Input	24	W4-IDC5G	10-60 V	5V	1.5-6 V
WRC4-INXS	Input	24	W4-IDC24	10-60 V	24V	16.5-30.5 V
WRC4-INXS-S1	Input	24	—	10-60 V	24V	16.5-30.5 V
WRC4-INYS	Input	24	W4-IDC15	10-60 V	15V	8.5-19 V
WRC4-IT5S	Input	24	W4-IDC5K	3.3-32 V	5V	1.5-6 V
WRC4-ITXS	Input	24	WRC Proprietary	3.3-32 V	24V	16.5-30.5 V
WRC4-ITYS	Input	24	WRC Proprietary	3.3-32 V	15V	8.5-19 V

Part Number	Part Type	Nominal Field Voltage	Industry Model	Field Voltage Range	Nominal Logic Voltage	Logic Voltage Range
WRC4-OA5S	Output	120	W4-OAC5	12-140 V	5V	2.5-7.5 V
WRC4-OAXS	Output	120	W4-OAC24	12-140 V	24V	16.5-30.5 V
WRC4-OAXS-S3	Output	120	—	12-140 V	24V	16.5-30.5 V
WRC4-OAXSC	Output	120	WRC Proprietary	12-140 V	24V	16.5-30.5 V
WRC4-OAXSC-S1	Output	120	WRC Proprietary	12-140 V	24V	16.5-30.5 V
WRC4-OAYS	Output	120	W4-OAC15	12-140 V	15V	8.5-20 V
WRC4-OB5S	Output	24	W4-ODC5	3-60 V	5V	2.5-7.5 V
WRC4-OB5S-C12	Output	24	WRC Proprietary	3-60 V	5V	2.5-7.5 V
WRC4-OBXS	Output	24	W4-ODC24A	3-60 V	24V	16.5-30.5 V
WRC4-OBXS11	Output	24	WRC Proprietary	3-60 V	24V	16.5-30.5 V
WRC4-OBYS	Output	24	W4-ODC15	3-60 V	15V	8.5-20 V
WRC4-OC5S	Output	100	W4-ODC5A	5-200 V	5V	2.5-7.5 V
WRC4-OCXS	Output	100	W4-ODC24A	5-200 V	24V	16.5-30.5 V
WRC4-OCYS	Output	100	W4-ODC15A	5-200 V	15V	8.5-20 V
WRC4-OF5S	Output	5	WRC Proprietary	0-50 V	5V	2.5-7.5 V
WRC4-OG5S	Output	5	WRC Proprietary	0-100 V	5V	2.5-7.5 V
WRC4-OL5S	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5 V
WRC4-OL5S-NM	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5 V
WRC4-OLXS	Output	240	WRC Proprietary	24-280 V	24V	16.5-30.5 V
WRC4-OLYS	Output	240	WRC Proprietary	24-280 V	15V	8.5-20 V
WRC4-OM5S	Output	240	WRC Proprietary	24-280 V	5V	3-32V
WRC4-OM5S-NM	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5V
WRC4-OM5SC	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5V
WRC4-OM5SR	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5V
WRC4-OMXS	Output	240	WRC Proprietary	24-280 V	24V	16.5-30.5 V
WRC4-OMXSC	Output	240	WRC Proprietary	24-280 V	24V	16.5-30.5 V
WRC4-OMYS	Output	240	WRC Proprietary	24-280 V	15V	8.5-20 V
WRC4-OP5S	Output	480	WRC Proprietary	24-480 V	5V	2.5-7.5 V
WRC4-OPXS	Output	480	WRC Proprietary	24-480 V	24V	16.5-30.5 V
WRC4-RC5S	Relay	5	WRC Proprietary	0-125 V	5V	3-5.5 V
WRC4-RCXS	Relay	5	WRC Proprietary	0-125 V	24V	18-30.5 V
WRC4-RCYS	Relay	5	WRC Proprietary	0-125 V	15V	9-20 V
WRC4-RO5S	Relay	5	WRC Proprietary	0-100 V	5V	3-5.5 V
WRC4-ROXS	Relay	5	WRC Proprietary	0-100 V	24V	18-30.5 V
WRC4-ROYS	Relay	5	WRC Proprietary	0-100 V	15V	9-20 V
WRC4-SWIA5S	Input	120	WRC Proprietary	90-140 V	5V	1.5-6 V
WRC4-SWIB5S	Input	24	WRC Proprietary	3.3-32 V	5V	1.5-6 V
WRC4-SWIM5S	Input	240	WRC Proprietary	180-280 V	5V	1.5-6 V
WRC4-SWIN5S	Input	24	WRC Proprietary	10-60 V	5V	1.5-6 V
WRC4-SWOA5S	Output	120	WRC Proprietary	12-140 V	5V	2.5-7.5 V
WRC4-SWOA5S-NM	Output	120	WRC Proprietary	12-140 V	24V	16.5-30.5 V
WRC4-SWOAXS-S3	Output	120	WRC Proprietary	12-140 V	24V	16.5-30.5 V
WRC4-SWOAXSC-S3	Output	120	WRC Proprietary	12-140 V	24V	16.5-30.5 V
WRC4-SWOB5S	Output	24	WRC Proprietary	3-60 V	5V	2.5-7.5 V
WRC4-SWOF5S	Output	5	WRC Proprietary	0-50 V	5V	2.5-7.5 V
WRC4-SWOL5S-NM	Output	240	WRC Proprietary	24-280 V	5V	2.5-7.5 V
WRC4-SWOM5S	Output	240	WRC Proprietary	24-280 V	5V	3-32V
WRC4-SWOUT	Watchdog	5	WRC Proprietary	0-125 V	5V	2.5-7.5 V
WRC4-WC5S	Watchdog	5	WRC Proprietary	0-100 V	5V	2.5-7.5 V
WRC4-WO5S	—	—	WRC Proprietary	—	—	—

# WRC4 FUSES

HOME / FUSES / WRC4 FUSES

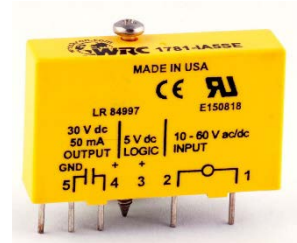


Part Number	AMP	Used With	Equivalent
<a href="#">WRC4-FUSE1</a>	One	WRC4 Mounting Boards	Wickman 19373K.1A
<a href="#">WRC4-FUSE4</a>	Four	WRC4 Mounting Boards	Wickman 19373K.4A
<a href="#">WRC4-FUSE5</a>	Wickman 19373K.5A	WRC4 Mounting Boards	Five

## SLIM MODULES

HOME / DISCRETE I/O SERIES / SLIMS

1781-Series of Slim input and output modules and solid-state relays provide compatibility with a variety of manufacturers' miniature modules. Slim modules have a hold-down screw, and can be used in mounting boards where vibration and shock are not of concern.



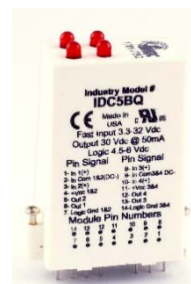
Part Number	Nominal Field Voltage	Field Voltage Range	Part Type	Industry Model	Max Input Current (mA)	Drop out Current (mA)
<a href="#">1781-IA5S</a>	120	90-140 V	Input	IAC5	10	2.5
<a href="#">1781-IA5SE</a>	24	3.3-32 V	Input	—	10	2.5
<a href="#">1781-IAXS</a>	120	90-140 V	Input	IAC24	10	2.5
<a href="#">1781-IAYS</a>	120	90-140 V	Input	IAC15	10	2.5
<a href="#">1781-IB5S</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-IBXS</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-IBYS</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-IM5S</a>	240	180-280 V	Input	IAC5A	8	1.5
<a href="#">1781-IMXS</a>	240	180-280 V	Input	IAC24A	8	1.5
<a href="#">1781-IMYS</a>	240	180-280 V	Input	IAC15A	8	1.5
<a href="#">1781-IN5S</a>	24	10-60 V	Input	IDC5	30	1
<a href="#">1781-INXS</a>	24	10-60 V	Input	IDC24	30	1
<a href="#">1781-INYS</a>	24	10-60 V	Input	IDC15	30	1
<a href="#">1781-IT5S</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-ITXS</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-ITYS</a>	24	3.3-32 V	Input	—	32	1
<a href="#">1781-OA5S</a>	120	12-140 V	Output	OAC5	2	10
<a href="#">1781-OAXS</a>	120	12-140 V	Output	OAC24	2	10
<a href="#">1781-OAYS</a>	120	12-140 V	Output	OAC15	2	10
<a href="#">1781-OB5S</a>	24	3-60 V	Output	ODC5	1	10
<a href="#">1781-OB5S11</a>	24	3-60 V	Output	—	1	10
<a href="#">1781-OBXS</a>	24	3-60 V	Output	ODC24	1	11
<a href="#">1781-OBYS</a>	24	3-60 V	Output	ODC15	1	10
<a href="#">1781-OBYS11</a>	24	3-60 V	Output	—	1	10
<a href="#">1781-OC5S</a>	100	5-200 V	Output	ODC5A	2	10
<a href="#">1781-OCXS</a>	100	5-200 V	Output	ODC24A	2	11
<a href="#">1781-OCYS</a>	100	5-200 V	Output	ODC15A	2	10
<a href="#">1781-OF5S</a>	5	0-50 V	Output	—	—	—
<a href="#">1781-OFXS</a>	24	0-50 V	Output	—	—	—
<a href="#">1781-OFYS</a>	15	0-50 V	Output	—	—	—
<a href="#">1781-OG5S</a>	5	0-100 V	Output	—	—	—

Part Number	Nominal Field Voltage	Field Voltage Range	Part Type	Industry Model	Max Input Current (mA)	Drop out Current (mA)
1781-OGXS	24	0-100 V	Output	—	—	—
1781-OGYS	15	0-100 V	Output	—	—	—
1781-OL5S	240	24-280 V	Output	—	2	10
1781-OLXS	240	24-280 V	Output	—	2	10
1781-OLYS	240	24-280 V	Output	—	2	10
1781-OM5S	240	24-280 V	Output	OAC5A	2	10
1781-OM5SC	240	24-280 V	Output	OAC5A5	2	10
1781-OM5SR	240	24-280 V	Output	OAC5AR	2	10
1781-OMXS	240	24-280 V	Output	OAC24A	2	10
1781-OMXSR	240	24-280 V	Output	—	2	10
1781-OMYS	240	24-280 V	Output	OAC15A	2	10
1781-OMYSC	240	24-280 V	Output	—	2	10
1781-OP5S	480	24-480 V	Output	—	2	10
1781-OPXS	480	24-480 V	Output	—	2	10
1781-OPYS	480	24-480 V	Output	—	2	10
1781-RC5S	5	0-125 V	Relay	—	1	1.3
1781-RCXS	5	0-125 V	Relay	—	3	2.2
1781-RCYS	5	0-125 V	Relay	—	2	3
1781-RO5S	5	0-100 V	Relay	ODC5R	1	1.3
1781-ROXS	5	0-100 V	Relay	ODC24R	3	2.2
1781-ROYS	5	0-100 V	Relay	—	2	3
1781-SWIN5S	24	10-60 V	Input	—	30	1
1781-SWOA5S	120	12-140 V	Output	—	2	10
1781-SWOAXS	120	12-140 V	Output	—	2	10
1781-SWOB5S	24	3-60 V	Output	—	1	10
1781-WC5S-XXX	5	0-125 V	Watchdog	—	—	0 (4A transient)
1781-WO5S-XXX	5	0-100 V	Watchdog	—	—	0 (4A transient)

## QUAD MODULES

### HOME/DISCRETE I/O SERIES/QUADS

1781-Series Quad Modules are available in all of the field voltages as the 1781-Series of Slim Modules or the WRC4-Series of modules. They provide four I/O circuits in one package with an integral LED for each circuit.



Part Number	Part Type	Nominal Field Voltage	Industry Model	Field Voltage Range	Current Type	Allowable Off-State Voltage (V)
1781-RO5Q	N.O. Relay	N/A	ODC5RQ	N/A	AC/DC	—
1781-IA5Q	Input	120V	IAC5Q	90-140 V	AC/DC	50
1781-IA5QE	Input	24V	—	—	AC/DC	—
1781-IB5Q	Input	24V	—	3.3-32 V	DC	2
1781-IM5Q	Input	240V	180-280 V	IAC5AQ	DC	120
1781-IN5Q	Input	24V	IDC5Q	10-60 V	AC/DC	2
1781-IT5Q	Input	24V	IDC5BQ	3.3-32 V	DC	2
1781-OA5Q	Output	120V	—	12-140 V	AC	240

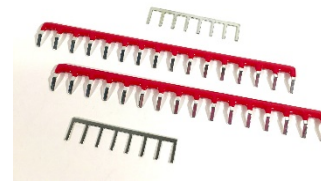
Part Number	Part Type	Nominal Field Voltage	Industry Model	Field Voltage Range	Current Type	Allowable Off-State Voltage (V)
<a href="#">1781-OB5Q</a>	Output	24V	ODC5Q	3-60 V	DC	240
<a href="#">1781-OB5Q11</a>	Output	24V	—	—	DC	—
<a href="#">1781-OC5Q</a>	Output	200V	ODC5AQ	5-200 V	DC	240
<a href="#">1781-OF5Q</a>	Output	50V	—	—	—	—
<a href="#">1781-OM5Q</a>	Output	120-240V	OAC5Q	24-280 V	AC	240
<a href="#">1781-RC5Q</a>	N.C. Relay	N/A	ODC5RCQ	N/A	AC/DC	—

## DISCRETE I/O ACCESSORIES

### HOME/DISCRETE I/O ACCESSORIES

Our power accessories are able to be ordered in conjunction with the units or sold separately. Accessories are available in all different varieties shown below.

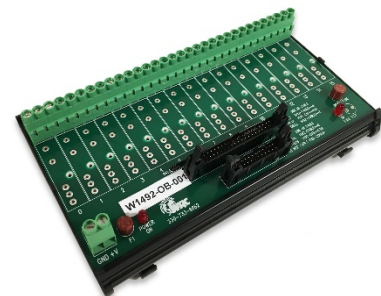
Part Number	Product Type
<a href="#">1781-STRAP4Q</a>	Jumper
<a href="#">1781-STRAP8M</a>	Jumper
<a href="#">1781-STRAP8S</a>	Jumper
<a href="#">1781-STRAPxx</a>	Jumper



## SIGNAL CONDITIONING FOR ALLEN BRADLEY PLC MODULES

### HOME/ALLEN BRADLEY PLC MODULE SIGNAL CONDITIONING

Western Reserve Controls introduces W1492 Series Field Termination / Signal Conditioning Family for direct connection to Allen-Bradley PLCs and Logix Controllers. Save money and lower installation costs using WRC's signal conditioning solutions as a front-end to your Allen-Bradley SLC/PLC/Logix I/O.



Part Number	1492 Cables	AB I/O Module	Headers	Modules
<a href="#">W1492-A16-56OW1</a>	1492-CABLE***Z	1756-OW16I, 1756-OB16IEF, 1756-OB16IS, 1756-OB16IEFS	40	16 digital WRC4
<a href="#">W1492-OB-001</a>	1492-CABLE***H	1746-OB32	40 & 20	16 digital WRC4
<a href="#">W1492-OB-001-16</a>	1492-CABLE***E	1746-OB16	20	16 digital WRC4
<a href="#">W1492-OB16-M1</a>	1492-CABLE***Z	1756-OB32	40 & 20	16 digital WRC4
<a href="#">W1492-OB16-M2</a>	1492-CABLE***Z	1756-OB32	40 & 20	16 digital WRC4
<a href="#">W1492-OB16-S1</a>	1492-CABLE***X	1756-OB16E	20	16 digital WRC4

Part Number	1492 Cables	AB I/O Module	Headers	Modules
<a href="#">W1492-OB16-S2</a>	1492-CABLE***X	1756-OB16E	20	16 digital WRC4

## SIGNAL CONDITIONING FOR MITSUBISHI PLC MODULES

### HOME / MITSUBISHI PLC MODULE SIGNAL CONDITIONING

Western Reserve Controls introduces W1492 Series Field Termination / Signal Conditioning Family for direct connection to Allen-Bradley PLCs and Logix Controllers. Save money and lower installation costs using WRC's signal conditioning solutions as a front-end to your Mitsubishi Boards.

Part Number	Connector	Brand	Modules
<a href="#">WRC4-A32C</a>	(1) 40 Pin header	Mitsubishi	16 digital WRC4
<a href="#">WRC4-A32D</a>	(2) 20 Pin Headers	Mitsubishi	16 digital WRC4

