

Four-wire
Signal Conditioners

Two-wire
Signal Conditioners

Power Transducers

Indicators

Limit Alarms

Gateway,
Remote I/O

Paperless Recording
System

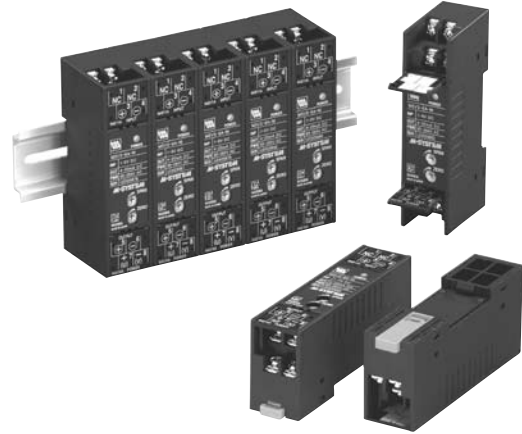
PC Recorder

Electronic Actuators
& Position Sensors

Lightning Surge
Protectors

M-System's M5 Series Transmitters are designed to accept a wide variety of process signal input and provide a standard and non-standard DC output.

- Only 41 mm (1.61 in") deep modules can be installed anywhere, even behind the panel cover
- The M5 Series features single channel four-wire models
- Standard DIN rail mounting
- 2000V AC isolation (1500V AC for AC powered)
- Selectable power input - 24V DC, 85-264V AC
- Power indicator LED

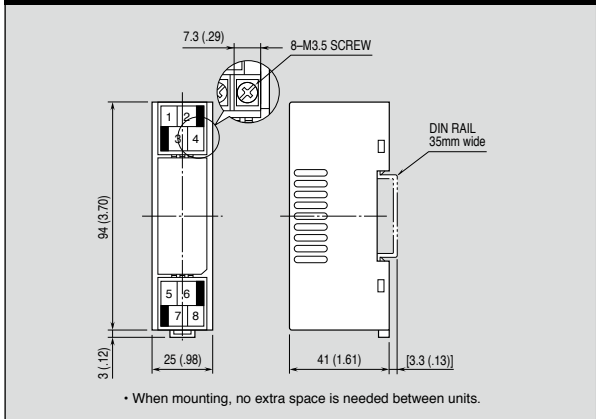


► SPECIFICATIONS

Construction	Terminal block
Connection	M3.5 screw terminals (nickel-plated steel; torque 0.8 N-m)
Housing material	Flame-resistant resin (black)
Isolation	Input to output to power
Operating temperature	-5 to +55°C (23 to 131°F)
Power LED	Green light turns on when the power is supplied
Mounting	DIN rail
Dielectric strength	2000V AC @1 minute (input to output to power to ground)
DC powered	
AC powered	1500V AC @1 minute (input to output to power to ground)
AC power input	Operational voltage range 85 - 264V
DC power input	Operational voltage range for 24V ±10%

► EXTERNAL DIMENSIONS

mm (inch)



Model	Function	Page
M5SN	Input Loop Powered Isolator	P.57
M5VS	Signal Transmitter	P.57
M5MV	Signal Transmitter (narrow span input)	P.57
M5VF	Signal Transmitter (high speed response)	P.57
M5TS	Thermocouple Transmitter	P.58
M5RS	RTD Transmitter	P.58
M5MS	Potentiometer Transmitter	P.58
M5DY	Current Loop Supply	P.58
M5PT	PT Transmitter	P.59
M5CT	CT Transmitter	P.59
M5CTC	CT Transmitter (clamp-on current sensor)	P.59
M5PA	Frequency Transmitter	P.59

Four-wire
Product Selection Guide

Mini-M Series

Mini-MW Series

M6 Series

M5-UNIT Series

W5-UNIT Series

M3-UNIT Series

M3S-UNIT Series

Pico-M Series

MX-UNIT Series

M-UNIT Series

W-UNIT Series

K-UNIT Series

F-UNIT Series

H-UNIT Series

10-RACK Series

18-RACK Series

38-RACK Series

Four-wire Signal Conditioners

Rack-mounted

Super-mini Two-wire Terminal Block Signal Conditioners B5-UNIT Series



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Two-wire Product Selection Guide

27-UNIT Series

26-UNIT Series

B6-UNIT Series

B3-UNIT Series

B5-UNIT Series

6-UNIT Series

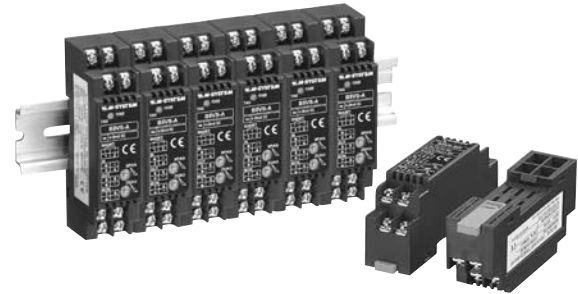
T-UNIT Series

B-UNIT Series

Two-wire Signal Conditioners

Only 41 mm (1.6 in.) deep modules can be installed anywhere, even behind the panel cover.

- 41 mm (1.6") deep
- Linearization, burnout protection, cold junction compensation (T/C input) standard
- Optional 25 msec. response time selectable
- Power indicator LED



► SPECIFICATIONS

GENERAL SPECIFICATIONS

Construction	Terminal block
Connection	M3.5 screw terminals (nickel-plated steel; torque 0.8 N·m)
Housing material	Flame-resistant resin (black)
Isolation	Input to output
Power LED	Orange light turns on when the power is supplied.

INSTALLATION

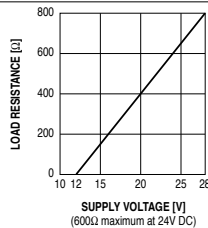
Supply voltage	12 – 28V DC
Operating temperature	-40 to +80°C (-40 to +176°F)
Operating humidity	0 to 90% RH (non-condensing)
Mounting	DIN rail
Dielectric strength	2000V AC @1 minute (input to output to ground)

OUTPUT

Output 4 – 20mA DC

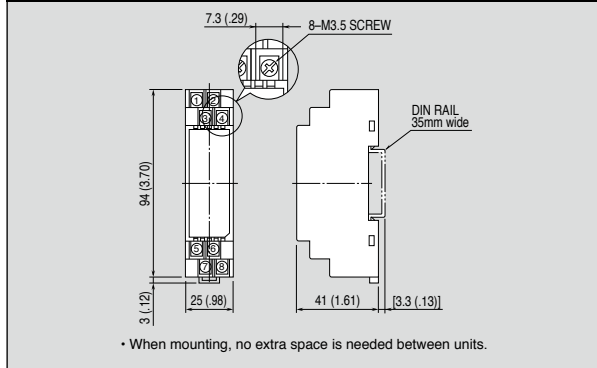
Load resistance vs. supply voltage:

$$\text{Load Resistance } (\Omega) = \frac{\text{Supply Voltage (V)} - 12 \text{ (V)}}{0.02 \text{ (A)}} \text{ (including leadwire resistance)}$$



► EXTERNAL DIMENSIONS

mm (inch)



Model	Function	Page
B5SN	Input Loop Powered Isolator	P.91
B5VS	Signal Transmitter	P.91
B5TS	Thermocouple Transmitter	P.91
B5RS	RTD Transmitter	P.91
B5MS	Potentiometer Transmitter	P.91

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Mini-MW Series

M6 Series

M5-UNIT Series

W5-UNIT Series

M3-UNIT Series

M3S-UNIT Series

Pico-M Series

MX-UNIT Series

M-UNIT Series

W-UNIT Series

K-UNIT Series

F-UNIT Series

H-UNIT Series

10-RACK Series

18-RACK Series

38-RACK Series

Four-wire Signal Conditioners

Rack-mounted

W5 Series Dual Output Transmitters are designed to accept a wide variety of process signal input and provide a standard and non-standard DC output.

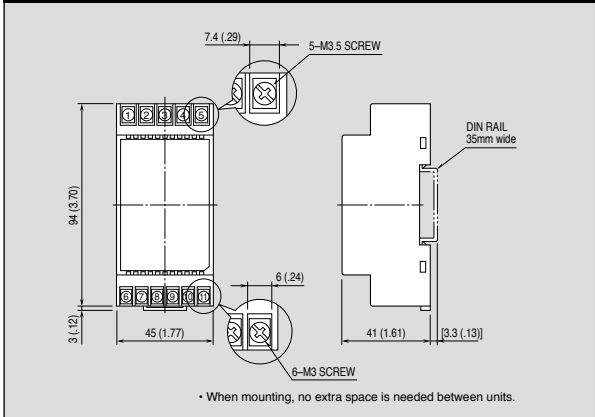
- Only 41 mm (1.61 in") deep modules can be installed anywhere, even behind the panel cover
- The W5 Series signal splitters provide two isolated DC outputs of independent ranges
- Standard DIN rail mounting
- 2000V AC isolation
- Selectable power input - 11-27V DC, 85-264V AC, 110V DC



► SPECIFICATIONS

Construction	Terminal block
Connection Input Output & Power	M3.5 screw terminals M3 screw terminals
Housing material	Flame-resistant resin (black)
Isolation	Input to output 1 to output 2 to power
Operating temperature	-5 to +55°C (23 to 131°F)
Mounting	DIN rail
Dielectric strength	2000V AC @1 minute (input to output 1 or output 2 to power to ground) 1000V AC @1 minute (output 1 to output 2)
AC power input	Operational voltage range 85 - 264V
DC power input	Operational voltage range for 24V ±10%, 11 - 27V, or 85 - 150V

► EXTERNAL DIMENSIONS



Model	Function	Page
W5VS	Signal Transmitter	P.61
W5FV	Signal Transmitter (field-configurable)	P.61
W5TS	Thermocouple Transmitter	P.61
W5RS	RTD Transmitter	P.62
W5MS	Potentiometer Transmitter	P.62
W5DY	Current Loop Supply	P.62
W5LCS	Strain Gauge Transmitter	P.63
W5PA	Frequency Transmitter	P.63