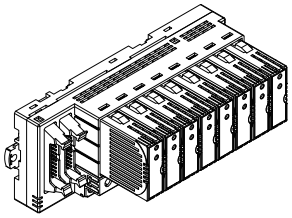
Super-mini Signal Conditioners M80 Series

INSTALLATION BASE (8 positions)

Functions & Features

- Holds up to 8 modules of M80 series signal conditioners
- Distributes power from a common power source; individual power wiring not required
- Requires only a limited wiring work within an instrumentation panel



CE

MODEL: M80BS-8[1][2]-R

ORDERING INFORMATION

- Code number: M80BS-8[1][2]-R

Specify codes from below for each of [1] and [2].
(e.g. M80BS-811-R)

[1] I/O TYPE

1: Input (M80YV, etc.)
2: Output (M80YS, etc.)

[2] CONNECTION

1: CN1 3M Company 3428-6002 LCPL
CN2 Without
2: CN1 3M Company 3428-6002 LCPL
CN2 3M Company 3428-6002 LCPL

POWER INPUT

DC Power
R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

RELATED PRODUCTS

- Connector terminal block (model: CNT)
- Special cable (model: MCN201)

GENERAL SPECIFICATIONS

Capacity: 8 positions
Connection
Power input: M3 screw terminals (torque 0.6 N·m)
I/O teminal: M3 screw terminals (torque 0.6 N·m)
I/O connector: 3M Company 3428-6002 LCPL
Screw terminal: Nickel-plated steel
Housing material: Flame-resistant resin (gray)
Isolation: Input to output to power to FG
Power indicator LED: Turns On when power is supplied

INSTALLATION

Current consumption: ≤ 0.6 A
Arrange in order that the total current consumed by the modules is within 0.5 A.
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 5 to 95 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 250 g (0.55 lb)

PERFORMANCE

Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1000 V AC @1 minute (input to output to power or FG)

STANDARDS & APPROVALS

EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive

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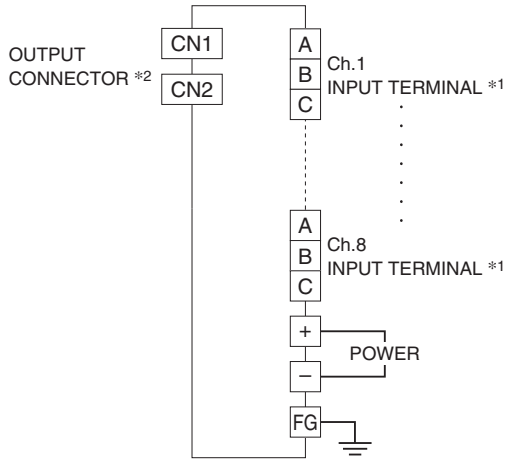
CONNECTION DIAGRAM

■ MODEL: M80BS-81(Input)

• CONNECTION DIAGRAM



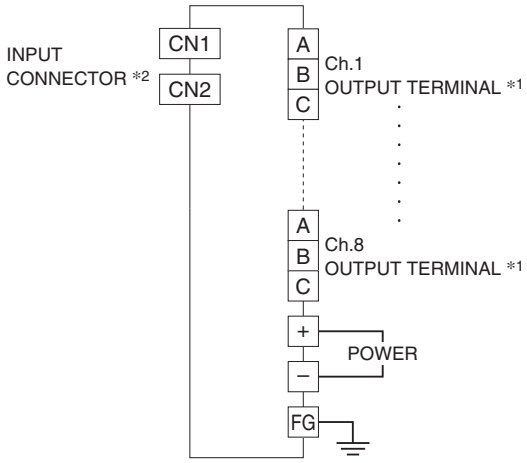
*1 Refer to the connection diagram of the modules for each terminal.
*2 CN2 is not provided for M80BS-811
Note: Use shielded cables for I/O wiring.

• CONNECTOR PIN ASSIGNMENT
Output connector: 3M Company 3428-6002
CN1: Output
CN2: Output

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	FG	11	ch.5 –
2	FG	12	ch.5 +
3	N.C.	13	ch.4 –
4	N.C.	14	ch.4 +
5	ch.8 –	15	ch.3 –
6	ch.8 +	16	ch.3 +
7	ch.7 –	17	ch.2 –
8	ch.7 +	18	ch.2 +
9	ch.6 –	19	ch.1 –
10	ch.6 +	20	ch.1 +

■ MODEL: M80BS-82(Output)

• CONNECTION DIAGRAM



*1 Terminal A: positive output, Terminal B: negative output
*2 CN2 is not provided for M80BS-821
Note: Use shielded cables for I/O wiring.

• CONNECTOR PIN ASSIGNMENT
Input connector: 3M Company 3428-6002
CN1: Input
CN2: Input

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	Power output –	11	ch.5 –
2	Power output –	12	ch.5 +
3	Power output +	13	ch.4 –
4	Power output +	14	ch.4 +
5	ch.8 –	15	ch.3 –
6	ch.8 +	16	ch.3 +
7	ch.7 –	17	ch.2 –
8	ch.7 +	18	ch.2 +
9	ch.6 –	19	ch.1 –
10	ch.6 +	20	ch.1 +

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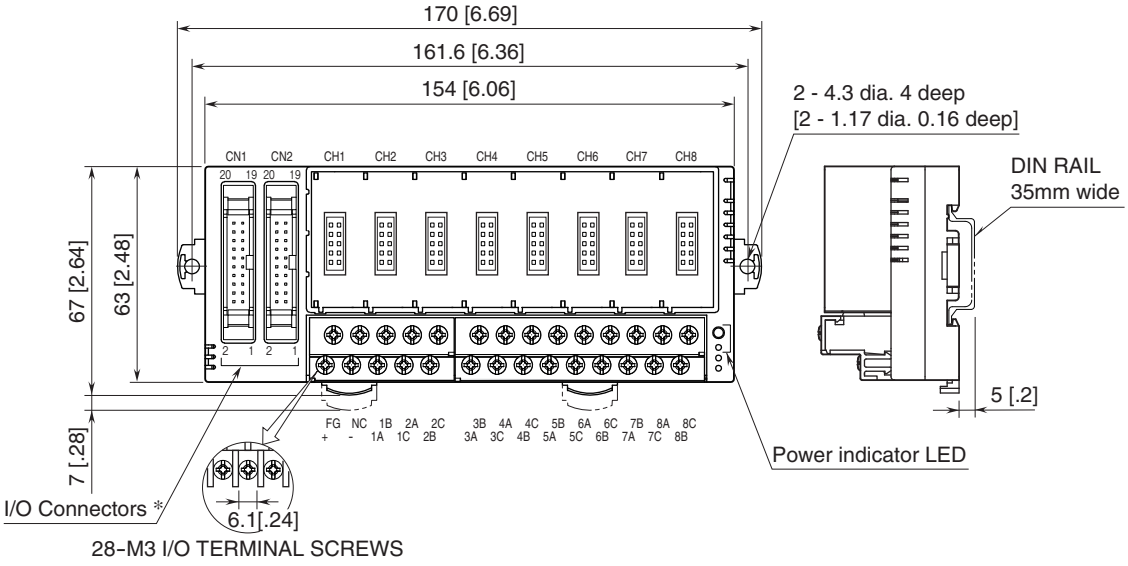
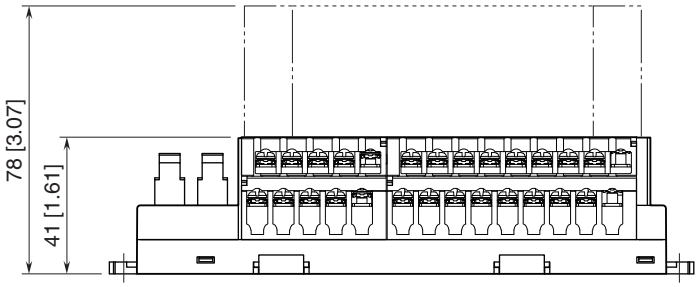
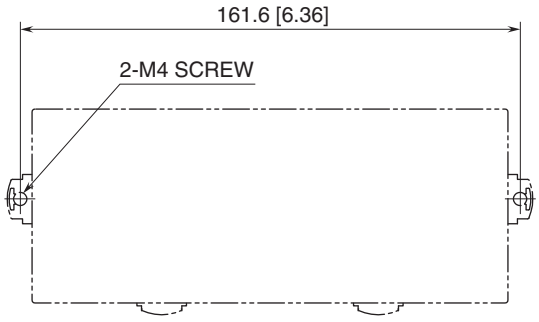
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]





* CN2 is not provided for M80BS-811 or M80BS-821.

MOUNTING REQUIREMENTS unit: mm [inch]



⚠ Specifications are subject to change without notice.

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