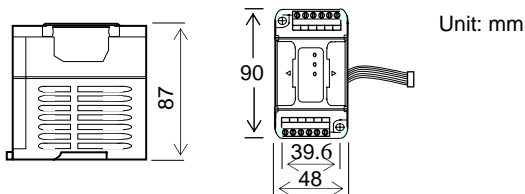# EX1N,1S

Ex1s2LD (Load Cell) USER'S GUIDE

☞ This manual contains text, diagrams and explanations which will guide the reader in the correct installation and operation of the Ex1s2LD special function block.
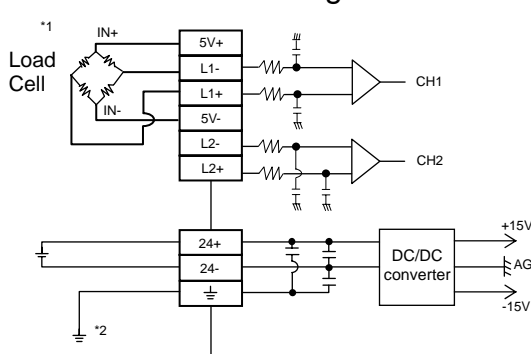
❋❋❋ Introduction ❋❋❋

1) The Ex1s2LD type analog input block (Hereafter referred to as the Ex1s2LD) converts 2 points Load Cell of analog input values (EX: weight pressure) into digital values, and transfers them to the PLC main unit.

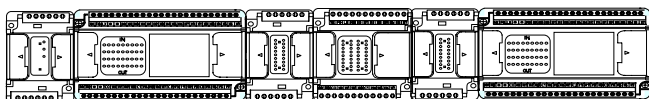## ❋❋❋ External Dimensions ❋❋❋

Unit: mm

❋❋❋ Wiring ❋❋❋

*1 Use a two-core, twisted, shielded cable for the analog input line, and separate it from other power lines or a lines easily induced.
*2 Make sure to connect the ⏚ terminal to the ⏚ terminal of the PLC main unit.

❋❋❋ Connection with PLC ❋❋❋

1) The blocks not occupy any points. Only connect 1pc of module.
2) Applicable PLC : Ex1s, Ex1n, Ex2n series V2.22 or more.
3) Ex1s2LD are connected with the cable at the left of the main unit.

❋❋❋ Specifications ❋❋❋

1. Environment specification

Item	Content
Directric Withstand voltage	500V AC 1min(Between analog input terminals and case)

Environmental specifications other than the above-mentioned are the same as the main unit of the Programmable controller. (Refer to the manual of the Programmable controller)
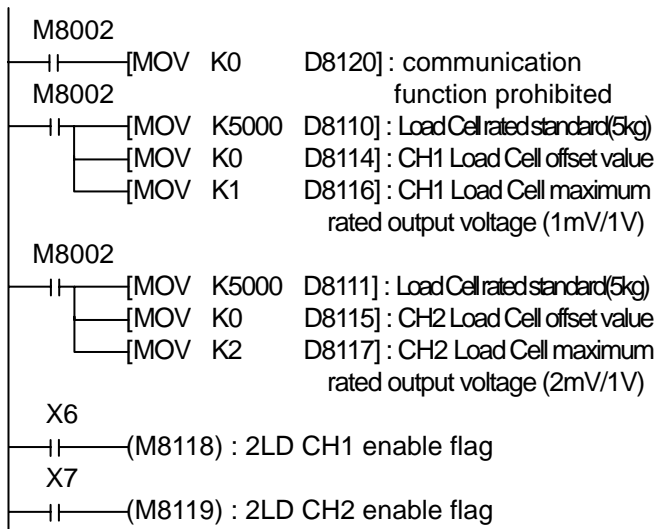
2. Power supply specification and isolation

Item	Content
Analog circuits	24V DC±10% 85mA (supplied from the External)
Digital circuits	5V DC 30mA (supplied from main unit)
Isolation	Photo-coupler isolation between analog and digital circuits.

3. Performance specifications

Item	Voltage input
Range of analog input	-40mV ~ +40mV
Analog output	12bit binary, 11bit + 1 sign bit
Resolution	40-(-40)/4000 = 0.02mV
A/D conversion time	1CH / 2 scan time

❋❋❋ Program Example ❋❋❋

Measurement result stored into D8112(CH1) and D8113(CH2)

♦ D8112 = measured value $\times$ D8110 / (D8116 $\times$ 10) + D8114

Ex1s2LD-edoc0309v100c

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