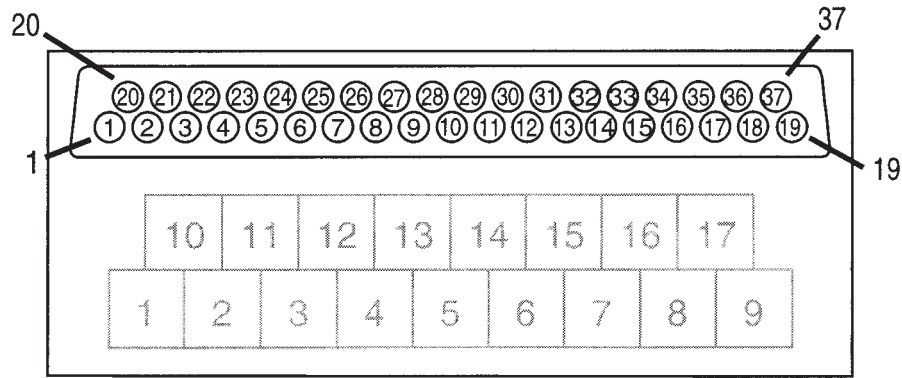


# Connectors

## Terminal Arrangement



Terminal number	Signal name	Signal direction	Use
1	COM	---	GND:VO (See note 1.)
2	RD1-1	Output	1: Read data $10^0$ digit
3	RD1-2	Output	2: Read data $10^0$ digit
4	RD1-4	Output	4: Read data $10^0$ digit
5	RD1-8	Output	8: Read data $10^0$ digit
6	RD2-1	Output	1: Read data $10^1$ digit
7	RD2-2	Output	2: Read data $10^1$ digit
8	RD2-4	Output	4: Read data $10^1$ digit
9	RD2-8	Output	8: Read data $10^1$ digit
10	RD3-1	Output	1: Read data $10^2$ digit
11	RD3-2	Output	2: Read data $10^2$ digit
12	RD3-4	Output	4: Read data $10^2$ digit
13	RD3-8	Output	8: Read data $10^2$ digit
14	RD4-1	Output	1: Read data $10^3$ digit
15	RD4-2	Output	2: Read data $10^3$ digit
16	RD4-4	Output	4: Read data $10^3$ digit
17	RD4-8	Output	8: Read data $10^3$ digit
18	RD5-1	Output	1: Read data $10^4$ digit
19	RD5-2	Output	2: Read data $10^4$ digit
20	RD5-4	Output	4: Read data $10^4$ digit
21	RD5-8	Output	8: Read data $10^4$ digit
22	OVER	Output	Output when input value is not within the display range.
23	D - V	Output	Data confirmation signal
24	RUN	Output	Operation signal
25	COM	---	GND:VO (See note 1.)
26	REQ	Input	PV output request
27	MAX REQ	Input	Maximum value output request
28	MIN REQ	Input	Minimum value output request
29	HOLD	Input	Hold input
30	RESET	Input	Reset input
31	POL	Output	Positive/Negative polarity signal
32	HH	Output	HH output (See note 2.)
33	H	Output	H output (See note 2.)
34	PASS	Output	PASS output (See note 2.)
35	L	Output	L output (See note 2.)

Terminal number	Signal name	Signal direction	Use
36	LL	Output	LL output (See note 2.)
37	COM	Output	GND:VO (See note 1.)

**Note**      Terminals 1, 25, and 37 have the same COM.  
Refer to 2–3 *Output Board* for comparative outputs.

### Applicable Connectors

Use the connector provided with the K3NV or an equivalent connector for the cable connecting to the BCD output connector.

The following connectors are provided with the K3NV.

Plug: XM2A-3701 (OMRON)

Hood: XM2S-3711 (OMRON)

The depth required for the installation of the K3NV is 200 mm min. in consideration of the space required by the cable.

### Connecting Conditions

Refer to the following for the connecting conditions of each I/O. Refer to 2–3 *Output Block* for output signals HH through LL.

#### • Input

Input current with no voltage input: 10 mA

Signal level

ON voltage: 1.5 V max.

OFF voltage: 3 V min.

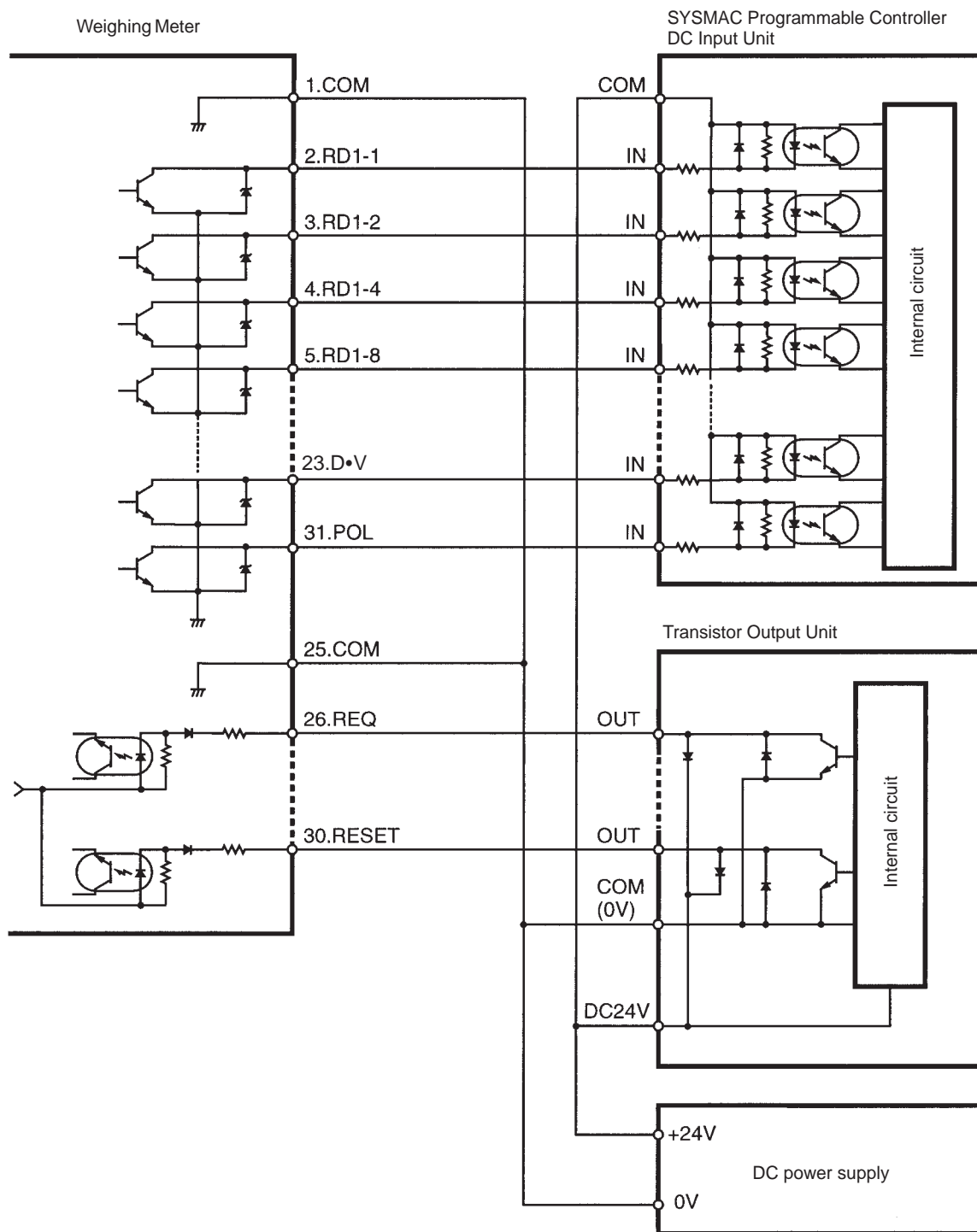
#### • Output

Rated load voltage: 24 VDC

Rated load current: 10 mA

Current leakage: 10  $\mu$ A max.

## Connection Example



**Note** Connect RD2-1 through RD2-4, RS3-1 through RS3-4, RD4-1 through RD4-4, and RD5-1 through RD5-4 in the same way as RD1-1 through RD1-4.

Connect the RUN and OVER signals if they are used as status data.

## Signals

When the HOLD signal is ON, the measurement operation stops and the process value input effective immediately before the HOLD signal is retained.

When the RESET signal is ON, the maximum and minimum values are set to the process value.

The OVER signal is ON when the input value is not within the display range.

The process value is output when the MAXREQ or MINREQ signal is ON at the time the output is tested in output test.

Multiple input signals must not turn ON. If multiple input signals turn ON or a single signal input is combined with another signal input, all output data will be turned OFF.