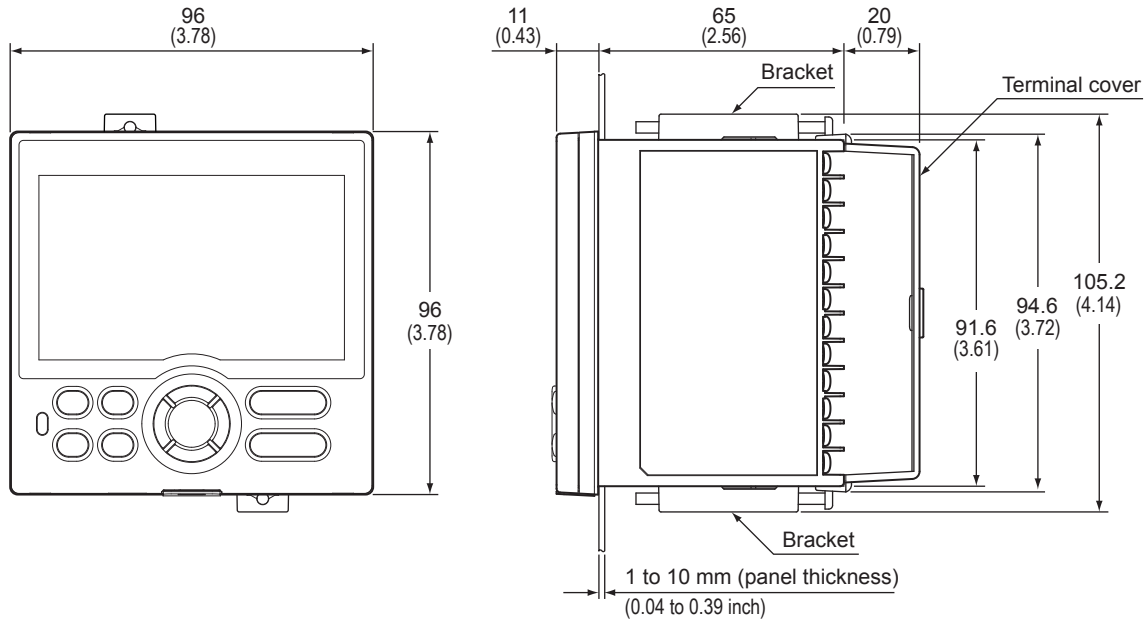


SD 05P01C41-01EN

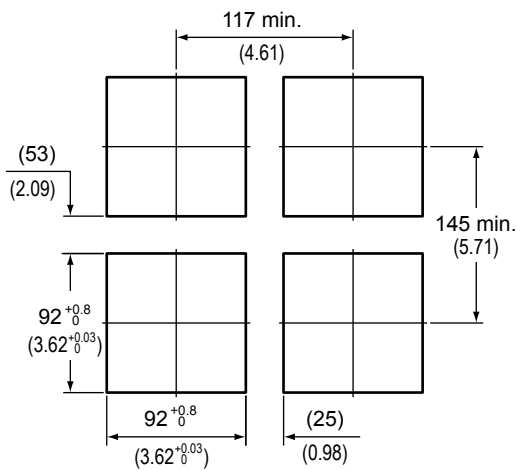
External Dimensions

Unit: mm
(approx. inch)

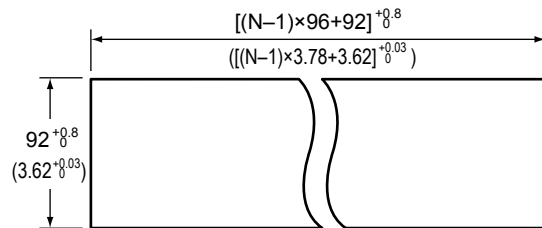


Panel Cutout Dimensions

General mounting



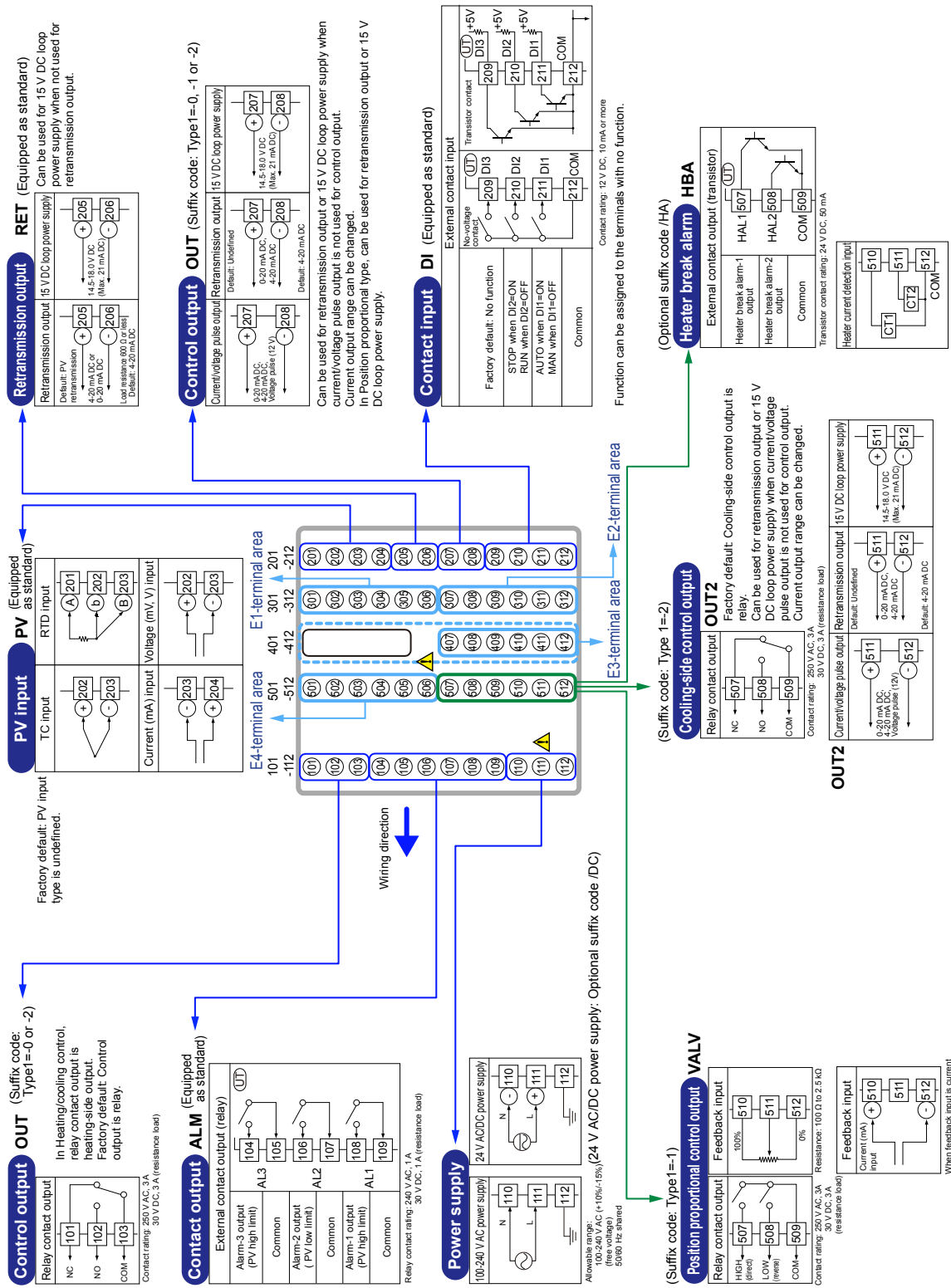
Side-by-side close mounting



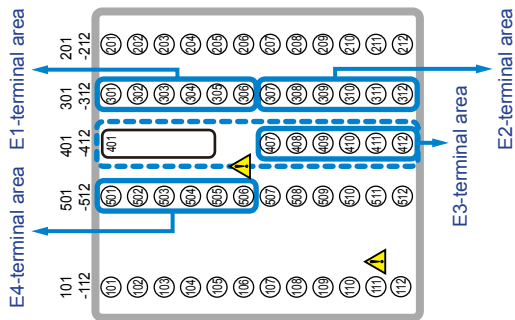
"N" stands for the number of controllers to be installed. However, the measured value applies if $N \geq 5$.

Normal tolerance: \pm (value of JIS B 0401-1998 tolerance grade IT18) / 2

Terminal Wiring Diagrams



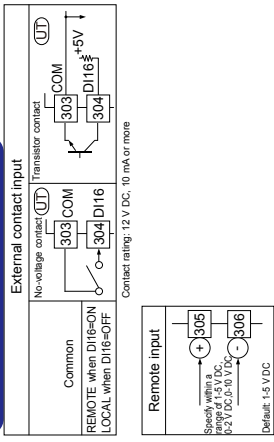
Terminal Wiring Diagrams (E1-Terminal Area and E2-Terminal Area)



301-306 E1-Terminal Area

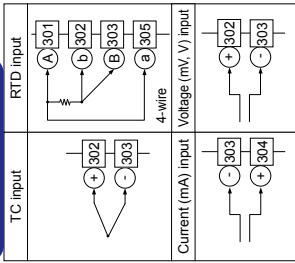
(Suffix code: Type 2=1, 2, 4, 5, or 7 and without optional suffix code /DR)

Remote input / Contact input RSP



(Suffix code: Type 2=1, 2, 4, 5, or 7 and with optional suffix code /DR)

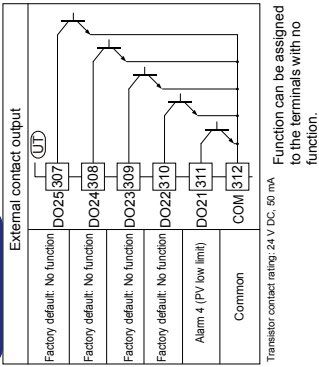
Universal input RSP



307-312 E2-Terminal Area

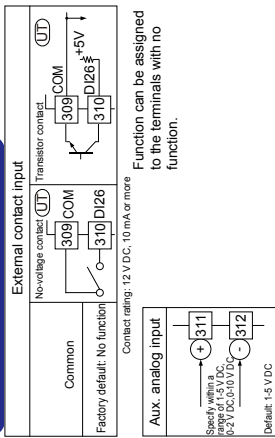
(Suffix code: Type 2=1, 3, 5, or 6)

Contact output DO



(Suffix code: Type 2=7)

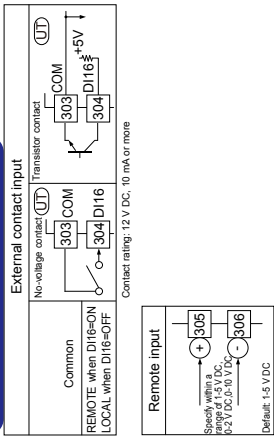
Aux. analog input / Contact input AIN2



301-306 E1-Terminal Area

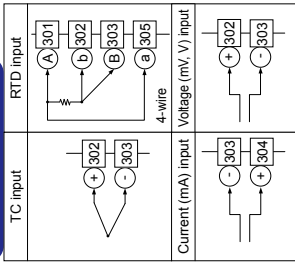
(Suffix code: Type 2=1, 2, 4, 5, or 7 and without optional suffix code /DR)

Remote input / Contact input RSP



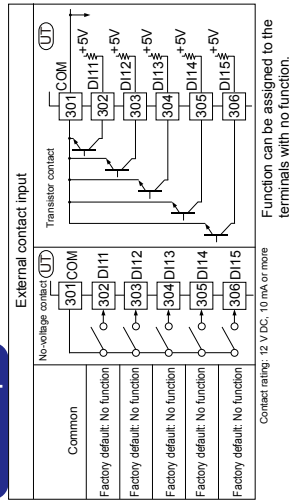
(Suffix code: Type 2=6)

Contact output DO



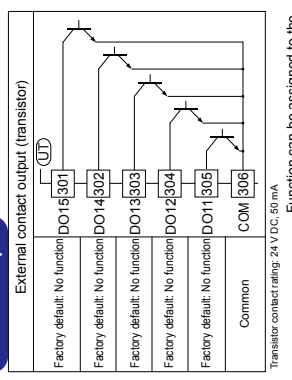
(Suffix code: Type 2=3)

Contact input DI



(Suffix code: Type 2=6)

Contact output DO



Terminal Wiring Diagrams (E3-Terminal Area and E4-Terminal Area)

401-412 E3-Terminal Area

Contact input DI (Suffix code: Type 2=1)

Pin	Signal name	Description	Unit
1	V+	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

PROFIBUS-DP communication (with Modbus master)

PROF
(Suffix code: Type 3=4, except Type 2=1 or 6)

Pin	Signal name	Description	Unit
1	VP	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

Ethernet communication (with gateway function)

ETHER

Pin	Signal name	Description	Unit
1	VP	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

CC-Link communication (with Modbus master)

CC-L
(Suffix code: Type 3=3, except Type 2=1 or 6)

Pin	Signal name	Description	Unit
1	FG	Frame ground	Normal
2	SLD	Shield	Normal
3	DG	RD/TX signal ground	Normal
4	DB	RD/TX - signal	No carrier (CRC error)
5	V-	RD/TX + signal	Communicating successfully (green)

Function can be assigned to the terminals with no function.

501-506 E4-Terminal Area

RS-485 communication

RS485
(Suffix code: Type 2=1 or 2, and with optional suffix code /LP)

Pin	Signal name	Description	Unit
1	VP	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

Contact input DI (Suffix code: Type 2=5 or 6)

Pin	Signal name	Description	Unit
1	V+	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

Aux. analog input/Contact input AIN4

Pin	Signal name	Description	Unit
1	V+	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.

24 V DC loop power supply LPS24

Pin	Signal name	Description	Unit
1	V+	+5V bus power	Normal
2	RD/TXD-P	Data signal (positive data receive/transmit)	No power or communication failure
3	RD/TXD-N	Data signal (negative data receive/transmit)	Normal
4	DEND	Signal ground	Normal
5	SHIELD	Shield ground	Normal

Function can be assigned to the terminals with no function.