# Burner Interlock Module RX-L80/90

#### **Overview**

The RX series consists of new combustion safety controllers that combine a burner interlock module and a burner control module in order to provide a wide variety of combustion furnaces with interlock monitoring, automatic ignition, flame monitoring, and other features that ensure safe and correct operation.

Various operation and ignition methods are available by selecteding pre-installed functions using a PC loader.



#### Features of the RX series

## Combustion safety that suits the equipment's specifications

- Modular structure and a wealth of selectable functions ensure safety functions that are suitable for the equipment specifications.
- Simply select from safety functions that are already created. This reduces the time required to review and verify the safety circuits.
- Functions can be selected using the dedicated PC loader. It is not necessary to study or create special software.

#### ■ Minimizes wiring, saves space

- Shutoff signals and other such safety signals are transmitted by connectors between modules.
- Both the number of wires and the amount of space required can be reduced without the need to relay the safety signals through external wiring.

#### ■ Maintenance support functions

- Device operation history (operation count, operating hours, warning history, etc.) is automatically recorded without the need to configure any special settings.
- Operation history can be checked at any time by connecting the PC loader.
- Various types of monitor output tailored to the equipment size are implemented to support status investigation and cause identification work during maintenance/troubleshooting.

Status check on the product: 7-segment/LED display
Lamp check on the front panel: Open collector monitor output
Remote monitoring of status: RS-485 communication (standard feature)
Ethernet communication (for RX-L90 only)

# Major Functions of the Burner Interlock Module (RX-L)

• Interlock input function

Number of inputs: 16

Individual OFF-delay settings (period when chattering is ignored)

Function input (collective startup, etc.)

Flame monitoring changeover at 760 °C or higher

• Purge function

Prepurge: 5 s to 60 min (selectable from 32 patterns)

Postpurge time can be freely set

Postpurge stop by a temperature contact

Blower output

Motor control

• Displays on the product

Status (7-segment LED)

Status (LED indicator)

• Monitor output

Open collector output, 22 points (freely allocable) RS-485 communication output (standard feature)

Ethernet communication output (RX-L90 only)

#### Equipment design precautions

When designing equipment that uses a combustion safety device, give due consideration to the following safety guidelines.

- Safety Engineering Directives for Industrial Heating Furnace Combustion Equipment ( by the Ministry of Health, Labour and Welfare [of Japan])
- General Safety Code for Industrial Combustion Furnaces: JIS B 8415
- Safety Guidelines for Industrial Gas Combustion Equipment (by the Japan Gas Association)
- Safety Guidelines for Gas Boiler Combustion Equipment (by the Japan Gas Association)

#### Important points for ensuring safety

- 1. Connect loads directly to this device.
- 2. Connect interlocks directly to the interlock input of this device. (They should not be connected to this device via a relay)
- 3. Do not set up a bypass circuit for manual operation, etc., for any load.
- 4. Ensure that both main and pilot valves have a redundant shutoff feature.

#### **Specifications**

Specificati				
Environmental	Ambient temperature		<b>RX-L80</b> : -20 to +55 °C <b>RX-L90</b> : 0 to 50 °C	
specifications			-20 to +70 °C	
	Ambient humidity		10 to 90 % RH (without condensation)	
	Vibration		0 to 3.2 m/s <sup>2</sup> (10 to 150 Hz for two hours each in the X, Y, and Z directions)	
	Impact		0 to 9.8 m/s <sup>2</sup>	
Electrical	Rated supply power		24 V DC	
specifications	Allowable supply power		21.6 to 26.4 V DC	
	Load	Rated voltage	100 V AC, 110 V AC, 200 V AC, 220 V AC	
	Power	Allowable voltage	-15 % to +10 % of rated voltage	
	Power consump		<b>RX-L80</b> : 9 W max. <b>RX-L90</b> : 9.5 W max.	
	Withstand voltage		• DC terminals	
	Willistand Voltage		500 V AC for 1 min	
			between: 24 V DC power terminal and the input function terminal	
			24 V DC power terminal and the monitor output connector	
			24 V DC power terminal and the RX-R/RX-L control signal terminal	
			AC terminals	
			1500 V AC for 1 min or 1800 V AC for 1 s	
			between: (1) H-G power terminals and H-G relay output and (2) DC terminals and connectors	
			<ul><li>(1) blower output terminal and (2) DC terminals and connectors</li><li>(1) control motor output terminal and (2) DC terminals and connectors</li></ul>	
	Inculation registr	200		
	Insulation resista	ance	50 MΩ or more with a 500 V DC megger between: (1) H-G power terminals and H-G relay output and (2) DC terminals and connectors	
			(1) blower output terminal and (2) DC terminals and connectors	
			(1) control motor output terminal and (2) DC terminals and connectors	
	Product life		Seven years when used continuously, 10 years when used eight hours per day	
	1 Toddot IIIC		(25 °C). Relay contact life is 100,000 cylcles (at rated load)	
	Startup input		Contact input (24 V DC, 10 mA)*1	
	Reset input		Contact input (24 V DC, 20 mA)*1	
	Interlock input		Contact input (24 V DC, 20 mA) <sup>-1</sup>	
	Relay output (with voltage output)		400 VA (with relay welding detection)*2	
	Blower output (non-voltage output)		350 VA	
	Control motor output (non-voltage output)		100 VA	
		s (transistor outputs)	22 (0.1 A max./output, 1 A max./module, 30 V DC max.)	
Communication			RX-L80: CPL RX-L90: CPL, Modbus/RTU, Modbus/ASCII	
specifications	Communication	Signal level	Conforms to RS-485	
		Communication/	Half-duplex/asynchronous	
		synchronization		
		method		
		,	500 m	
		method		
		method  Maximum wiring length  Terminating	500 m External (150 $\Omega$ , 1/2 W or more)	
		method  Maximum wiring length  Terminating resistor	External (150 Ω, 1/2 W or more)	
		method  Maximum wiring length  Terminating resistor  Transmission		
	DV D	method  Maximum wiring length  Terminating resistor  Transmission speed	External (150 $\Omega$ , 1/2 W or more) 38400 bps max.	
	RX-R	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication	External (150 Ω, 1/2 W or more)	
	RX-R Control signal	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R	
		method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line	External (150 $\Omega$ , 1/2 W or more) 38400 bps max.	
		method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m	
	Control signal	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L	
	Control signal	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m	
	RX-L Control signal	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L	
	RX-L Control signal	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m	
General	RX-L Control signal Ethernet commu	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m	
General specifications	RX-L Control signal  Ethernet commu(RX-L90 only)	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP	
	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)	
	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions Weight	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)  Approximately 550 g	
	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions Weight Color (main unit	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)  Approximately 550 g  Black	
	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions Weight Color (main unit Structure	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)  Approximately 550 g  Black  Two-piece: base can be separated from main unit  Gas Appliance Directive (CE): 0063CN6671 (certified model: RX-L80A)	
specifications	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions Weight Color (main unit Structure Certification	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)  Approximately 550 g  Black  Two-piece: base can be separated from main unit	
specifications  Wiring cable	RX-L Control signal  Ethernet commu (RX-L90 only) Dimensions Weight Color (main unit Structure Certification Reset	method  Maximum wiring length  Terminating resistor  Transmission speed  Communication protocol  Maximum line length  Protocol  Maximum wiring length  Inication protocol	External (150 Ω, 1/2 W or more)  38400 bps max.  Control protocol for RX-R  50 m  Control protocol for RX-L  500 m  Modbus/TCP  80 (W) × 134 (D) × 105 mm (H)  Approximately 550 g  Black  Two-piece: base can be separated from main unit  Gas Appliance Directive (CE): 0063CN6671 (certified model: RX-L80A)  Wiring length: 10 m max.	

<sup>\*1.</sup> Can be used for equipment that has a contact resistance of 250  $\Omega$  or less.

<sup>\*2.</sup> Cannot be used as a dry output. If relay is used, be sure to connect an AC load (10 VA or more).

#### (Table 1)

Signal	Cable type	Maximum length
RX-R control signal	0.2 to 1.5 mm <sup>2</sup> (#28-14 AWG) <sup>*1</sup>	50 m
RX-L control signal		500 m
Reset signal	0.3 to 0.75 mm <sup>2</sup> (#22-18 AWG) <sup>+2</sup>	10 m
Start signal		200 m
IN1 to IN16 signals		
M-1 to M-22 Monitor output	Soldered: 0.25 mm <sup>2</sup> or less (#23 AWG or less) Crimped: 0.08 to 0.2 mm <sup>2</sup> (#28-24 AWG)	100 m
RS-485 communication	0.2 to 1.5 mm2 (#28-14 AWG)*3	500 m
Blower output	JIS C 3306, 0.75 mm <sup>2</sup> or more	-
Control motor output	(0.18 dia., 30 strands)	

<sup>\*1.</sup> Recommended: JCS4364 cables for light electrical instruments (twisted shielded cables for instruments), eight cores (four pairs)

<sup>\*2.</sup> Wire diameter of 2 mm max., recommended crimp terminal: V1.25-3 (RAV1.25-3), made by JST Mfg. Co., Ltd.

<sup>\*3.</sup> Recommended: JCS4364 cables for light electrical instruments (twisted shielded cables for instruments), four cores (two pairs)

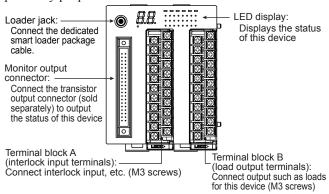
**List of settings** 

Item		Setting No.	Description	
Model	Regular/zone selection	A-1	Selects regular RX-Ls, zone RX-Ls, or a single RX-L.	
settings	Number of connected RX-Ls B-14		Sets the number of zone RX-Ls connected to regular RX-Ls.	
	Number of abnormal RX-Ls re-	B-8	Sets the number of abnormal zone RX-Ls among regular RX-Ls required for an	
	quired for an overall stop to occur  RX-L communication address B-19		overall stop to occur.  Sets the communication address of a zone RX-L.	
	Number of connected RX-Rs E-1		Sets the number of RX-Rs connected to the zone ILM.	
	Number of abnormal RX-Rs E-2			
	for a zone lockout to occur		Sets the number of abnormally stopped RX-Rs required for a zone lockout to occur.	
	Selection of air pressure A-2 switch startup check		Selects whether to perform an air pressure switch startup check.	
	Air pressure switch operation check condition cancellation		Sets the cancellation conditions for results of the air pressure switch startup check	
	Furnace temperature 760 °C monitoring A-4		Selects ON or OFF for furnace temperature 760 °C monitoring	
	Startup method	A-3	Sets the start conditions for processes.	
Control	Selection of startup	B-1	Sets startup conditions.	
settings	Selection of prepurge	B-2	Sets ON or OFF for prepurge (for zone).	
	Blower sync signal assignment	B-6	Selects "Input port" or "Communication" for the blower sync signal.	
	Purge count signal assignment	B-7	Selects "Input port" or "Communication" for the purge count signal.	
	High fire position input	B-9	Specifies high and low fire position input numbers.	
	Low fire position input	B-10		
	Process timeout handling	B-11	Determines what is done when the process progress conditions are not met.	
	Prepurge conditions when restarting RX-R	B-12	Sets the prepurge conditions for restarting all RX-Rs that have stopped during combustion.	
	Low fire shutdown	B-13	Returns to the low fire position (ignition conditions) when turning combustion OFF.	
	Postpurge operation in the case of residual flame	B-15	Sets the conditions for postpurge if there is a residual flame.	
	Prepurge conditions for RX-R	B-16	Sets whether to use RX-R input as a condition for prepurge.	
	RX-L communication error handling	B-18	Sets whether shared RX-L continues to operate in cases where communication with a zone RX-L is lost	
Гiming	Prepurge time	D-1	Sets the prepurge time.	
settings	Ignition standby time	D-2	Sets the length of the standby period that starts when ignition conditions are met and ends when pilot burner ignition begins.	
	Proportional control standby time	D-3	During the main ignition process, proportional control input is not accepted until this set time elapses	
	Postpurge time	D-4	Sets the postpurge time.	
	Postpurge time for errors	D-5	Sets the postpurge time that is used in the event of an error.	
	Process error determination	D-6	Sets the amount of time that can pass without the satisfaction of process progress	
	time (not during combustion)  Process error determination	D-7	conditions before an error is judged to have occurred (not during combustion).  Sets the amount of time that can pass without the satisfaction of process progress	
	time (during combustion)  Re-ignition standby time	D-8	conditions before an error is judged to have occurred (during combustion).  The wait time before performing a prepurge and restarting RX-Rs after all RX-Rs have	
			stopped during combustion.	
Group settings	RX-R Group	E-3	Sets groups to perform combined operations.	
Input	Input function	C-1	Sets the input functions for IN1 to IN16.	
settings	Interlock OFF delay	C-2	Sets the OFF delay time for IN1 to IN16.	
	Conditional interlock setting	C-3	Specifies conditions for conditional interlocks A to E.	
	Conditional interlock setting standby time	C-4	Sets the standby time that elapses before interlock monitoring begins for conditional interlocks A to E.	
Relay	Relay output operation	B-3	Sets the relay output operation.	
output	Blower output operation	B-4	Sets the blower output operation.	
settings	Control motor output operation	B-5	Sets the control motor output operation.	
Monitor	Blink operation	MO-1	Selects whether to use blinking display (alternate ON/OFF output) for interlock operated output.	
output	Monitor output assignment	MO-2	Selects signals to be assigned to monitor outputs 1 to 22 (M-1 to M-22).	
settings	Monitor output operation	MO-3	Sets the monitor output operation (direct or reverse) for monitor outputs 1 to 22 (M-1 to M-22)	
Display	LED settings	DSP-1	Selects signals to be assigned to the LED display on the front of the module (ST1 to ST7, IN1 to 16).	
settings	Alarm display setting	DSP-2	Sets the method of displaying alarms on the 7-segment LED on the front of the module.	
Host	Host communication (RS-485) address	F-1	Sets the communication address.	
commu-	Host communication (RS-485) baud rate	F-2	Sets the baud rate (communication speed).	
nication	Host communication (RS-485) format	F-3	Sets the parity and number of stop bits.	
settings	Host communication (RS-485) protocol	F-4	Sets the communication protocol.	
_	, ,,	F-5	·	
	Permission for RX-R startup by host communication (RS-485)	r-ט 	Selects whether an individual RX-R can be started by communication from the host device.	

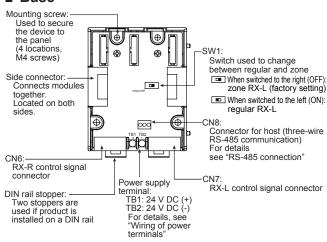
#### **Part Names**

#### ■ Main unit

The terminal area is shown with its cover removed for explanatory purposes.



#### ■ Base



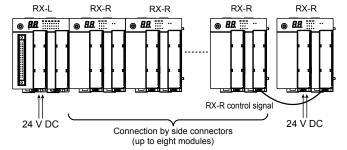
#### Installation

#### ■ Module connection

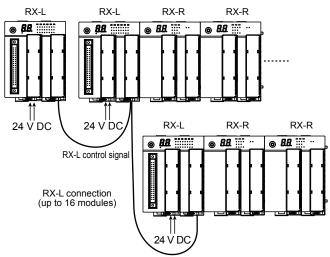
This device can be connected to an RX-R using the side connector on the base.

When modules are connected, their power and communication link are also connected, reducing the amount of wiring required. Connect the modules before installing them on the DIN rail. Connection examples are shown below.

#### Multiburner



#### Multizone



#### Model No.

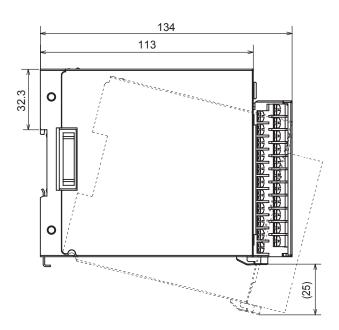
#### ■ RX-L burner interlock module

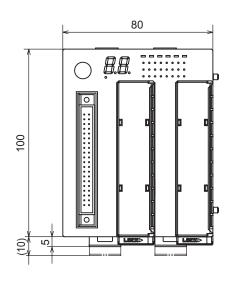
Model No.	Host communication	Certification
RX-L80A010010	RS-485 communication	CE
RX-L90A010020	RS-485 communication,	-
	Ethernet communication	

Note: The suffix "D" indicates that an inspection record is included. Example: RX-L80A01001D

#### Optional accessories (sold separately)

Name	Azbil model No./part No.	Supply power
Transistor output connector	81446847-001	FCN361J040-AU solder-type jack (1) and FCN-360C040-B cover (1) manufactured by Fujitsu Components
RX-R/RX-L control signal connector	81447402-001	BL3.5/7SNSW control signal connector (2) (Part no.: 161019), made by Weidmueller
Smart loader	SLP-RXMJ70	For maintenance (with cable)
package	SLP-RXMJ71	For maintenance (without cable)
	SLP-RXEJ70	For selecting functions (with cable)
	SLP-RXEJ71	For selecting functions (without cable)
Surge absorber	83968019-001	



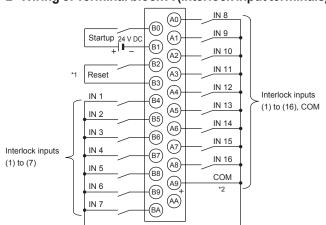


#### Wiring

#### ■ Cautions for wiring

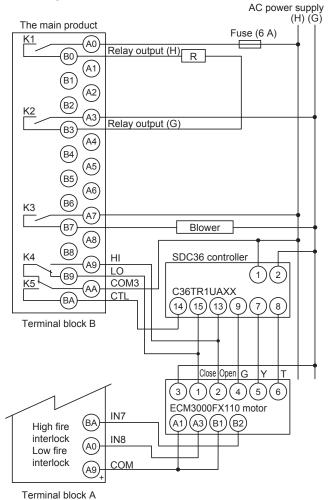
- The contacts of the interlock and limit function must be directly connected to the interlock input of this device. Do not connect the contacts using relays.
- Before wiring, verify the model No. and terminal No. on the label attached to the side of the module.
- Use a crimp terminal suitable for M3 screws to connect each terminal.
- Exercise care not to allow crimp terminals to touch adjacent terminals.
- Route the signal wires, power wires, etc., of this device at least 30 cm away from other input and power wires. Also, do not pass these wires through the same conduit or wiring duct.
- When wiring is completed, check that the wires are correctly connected. Incorrect wiring may cause damage or malfunction.
- The same terminal blocks and connectors are used for the following. Exercise care to ensure wiring is carried out correctly.
  - Terminal block A (interlock input terminals, M3 screws) and Terminal block B (load output terminals, M3 screws)
  - Connectors for RX-R control signals (CN6 connectors) and connectors for RX-L control signals (CN7 connectors)

#### Wiring of Terminal block A (interlock input terminals)



- \*1. Use the reset input independently. It cannot be connected to the reset input of other RX-L or RX-R modules.
- \*2. The COM terminal cannot be shared with other RX-R or RX-L modules.

#### ■ Wiring of Terminal block B (load output terminals)

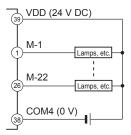


<u>Note</u>

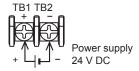
 In this example of wiring between Terminal block B and a motor, the ECM3000FX110 relay contact input (which has four auxiliary switches) is used, and the auxiliary switches are assigned to interlock inputs IN7 and IN8 of the RX-L80's Terminal block A as high fire and low fire interlocks. ■ Wiring of monitor output connectors

		ອຸ	01 11101	ntor output oo		0.0
			Terminal *	Monitor output	Terminal	Monitor output
			1 (B20)	Monitor output 1 (M-1)	21 (A20)	Monitor output 17 (M-17)
[	0		2 (B19)	Monitor output 2 (M-2)	22 (A19)	Monitor output 18 (M-18)
1		21	3 (B18)	Monitor output 3 (M-3)	23 (A18)	Monitor output 19 (M-19)
	• •		4 (B17)	Monitor output 4 (M-4)	24 (A17)	Monitor output 20 (M-20)
	• •		5 (B16)	Monitor output 5 (M-5)	25 (A16)	Monitor output 21 (M-21)
			6 (B15)	Monitor output 6 (M-6)	26 (A15)	Monitor output 22 (M-22)
			7 (B14)	Monitor output 7 (M-7)	27 (A14)	NC
20	::	40	8 (B13)	Monitor output 8 (M-8)	28 (A13)	NC
			9 (B12)	Monitor output 9 (M-9)	29 (A12)	NC
l			10 (B11)	Monitor output 10 (M-10)	30 (A11)	NC
			11 (B10)	Monitor output 11 (M-11)	31 (A10)	NC
			12 (B9)	Monitor output 12 (M-12)	32 (A9)	NC
			13 (B8)	Monitor output 13 (M-13)	33 (A8)	NC
			14 (B7)	Monitor output 14 (M-14)	34 (A7)	NC
			15 (B6)	Monitor output 15 (M-15)	35 (A6)	NC
			16 (B5)	Monitor output 16 (M-16)	36 (A5)	NC
			17 (B4)	NC	37 (A4)	COM4 (0 V)
			18 (B3)	NC	38 (A3)	COM4 (0 V)
			19 (B2)	NC	39 (A2)	VDD (24 V DC)
			20 (B1)	NC	40 (A1)	VDD (24 V DC)

\* The number in parentheses is the pin assignment for the transistor output connector (81446847-001, made by Fujitsu Components and sold separately).



#### Wiring of power terminals



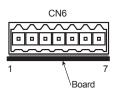
#### ■ S-485 connection

The RS-485 communication cable consists of three wires. Always use DA, DB, and SG to connect to the CN8 connector.



#### ■ Connection of RX-R control signals

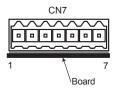
If RX-Rs cannot be connected together using a side connector, connect the RX-R control signal line to the CN6 connector.



Terminal	RX-R control signal
1	E-SG
2	E-DA1
3	E-DB1
4	E-DA2
5	E-DB2
6	E-DO1
7	E-DO2

#### ■ Connection of RX-L control signals

When connecting RX-Ls together, connect the RX-L control signal line to the CN7 connector.



Terminal	RX-L control signal
1	C-SG0
2	C-DA1
3	C-DB1
4	C-DA2
5	C-DB2
6	C-DIO
7	C-SG

#### ■ I/O isolation

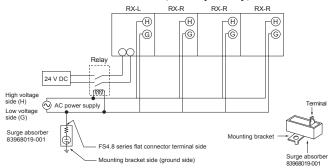
The solid line indicates isolation from the rest of the circuits.

DC power supply (TB1, TB2) Reset input	Interlock input (IN 1 to IN 16, COM) RX-L control signal (pins CN7-6 and 7)
Host communication (RS-485 communication) connector (CN8) Loader jack (loader) communication	RX-R control signal connector (CN6) RX-L control signal connector (pins CN7-1 to 5)
Relay output H, G	AC power supply H, G
Startup input	Monitor output connector
Control motor output	Blower output

#### Wiring of an AC power, DC power, external relay, and surge absorber

When using a surge absorber as a countermeasure against lightning, use the connection shown below.

Model No.: 83968019-001 (sold separately)



#### ! Handling precautions

- Install an FS4.8 series flat connector (Tyco Electronics AMP's 187 series receptacle or equivalent) on one end of the wire and use a wire that is as short as possible.
- The mounting bracket of the surge absorber, 83968019-001, is crimped internally and on the grounding side to ensure conductivity. It is grounded when installed on a metallic surface of the housing or other grounded part of the burner.
- Make sure the 24 V DC power is supplied to the RX-R/ RX-L together with AC power H, G. If the 24 V DC power is supplied to the RX-R/RX-L and the AC power is not supplied, a malfunction may occur.

Please read "Terms and Conditions" from the following URL before ordering and use.

http://www.azbil.com/products/factory/order.html

Specifications are subject to change without notice.



### **Azbil Corporation**

Advanced Automation Company

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan URL: http://www.azbil.com/

1st edition: Oct. 2017