

Burner Controller

Model AUR255_3/_4

Overview

The AUR255 burner controller is a combustion safety controller specifically designed for batch operation (for systems that start and stop at least once in a 24-hour period). It automatically and safely ignites gas and oil burners using the correct ignition sequence. This device is to be used with the AUD100/110/120 advanced ultraviolet flame detector or with a flame rod.

The front of the unit provides a 7-segment LED display to show the flame voltage and the current sequence stage. Also from the front panel users can access a communication function that is convenient for maintenance and troubleshooting and an event function.

The 7-segment LED display shows not only the normal operating sequence and flame voltage, but also the sequence code and alarm code alternately in the event of an alarm, allowing users to easily view alarm details.

The communication function can be used to read out basic information such as the status of input/output and the operating history, alarm history, and other internal information, which is useful for troubleshooting and preventive maintenance.

Various kinds of data recorded in the AUR255, including the flame voltage, ignition delay time, combustion count, and combustion time of each sequence stage, are useful for troubleshooting and preventive maintenance. Also, to ensure timely replacement of the ultraviolet flame detector, the event function outputs a reminder after 25,000 hours of combustion time.

Features

- Safety standard certification
CE/FM/UL
- Ignition sequence
The ignition trial time can be selected from 4.5 s, 9.0 s, and 13.5 s.



- Ease of instrumentation and handling
Designed for compactness, so little installation space is needed.
Wires connect to the sub-base, so the unit is easy to install/remove.
The flame monitor output and alarm output contacts are available as semiconductor output and relay output, respectively.
External reset input provides the ability to reset from a control panel.
- Multifunction display
The 7-segment LED display is useful for maintenance and troubleshooting, helping to identify operation progress, alarm codes, and event codes. In addition, flame detection and alarm activation can be checked visually with LED indicators.

Note:

The use of this device is strictly restricted by safety guidelines and other standards. For safety, use this device only with compatible equipment.

■ Precautions for instrumentation

Facilities that use a flame safeguard system must be designed in compliance with relevant laws, standards, safety guidelines, and the like.

- Main safety policies in Japan
 - Technical Policy on Safety Standards for Combustion Equipment in Industrial Furnaces, by the Ministry of Health, Labour and Welfare
 - General Safety Code for Industrial Combustion Furnaces - JIS B 8415
 - The Index of Safety Technology of Industrial Gas Combustion Equipment, by the Japan Gas Association
 - The Index of Safety Technology of Gas Boiler Combustion Facilities, by the Japan Gas Association
- U.S.A.
 - Combustion Safety Guidelines (NFPA 86), by the National Fire Protection Association
- Europe
 - Industrial Thermoprocessing Equipment (EN 746)
 - Appliances Burning Gaseous Fuels, amended by CE Marking Directive (93/68/EEC)
- For use of this product abroad, create a design that reflects the laws and standards of the relevant country.

● Important points for ensuring safety

1. Connect loads directly to this device.
2. Design the interlock so that it can directly cut off power to the load.
3. Be sure to use a safe startup circuit at startup.
4. Do not add a bypass circuit that allows manual operation of any load.
5. Both the main valve and pilot valve must have redundant shutoff.

● Precautions for system design

This device does not have a purge function. It must be provided externally.

Specification

Item		Description		
Application		Gas- or oil-burning combustion equipment		
Compatible flame detector		Model AUD100/110/120 ultraviolet flame detector, or a flame rod		
Sequence	Sequence timing	Ignition trial	Hi solenoid valve ignition standby	Hi solenoid valve ignition
		Selectable by model No.	7.0 ± 1.0 s	4.5 ± 0.5 s
	Flame failure response time	Model AUD100/110/120 ultraviolet flame detector		
		1, 2, or 4 s max. (at a flame voltage of 4.2 V in the AUR255C and 2.0 V in the AUR255B)		
	Reset time	1 s or longer (main unit reset switch or contact reset input*2)		
	Alarm detection time	False flame error		Interlock error
		5.0 ± 1.0 s		1 s or shorter
	Lockout	Lockout requiring manual reset		
Operation upon ignition failure	Lockout			
Operation upon flame failure	Lockout			

Item	Description									
Electrical specifications	Supply power rating	100/120/200/220 V AC, 50/60 Hz								
	Allowable supply voltage	85–110 % of rated voltage								
	Power consumption	10 W max.								
	Dielectric strength	1500 V AC for 1 min or 1800 V AC for 1 s Between each terminal and ground, except for flame detector connection terminals (terminals 14, 15)								
	Insulation resistance	50 MΩ min. with a 500 V DC megger Between each terminal and ground, except for flame detector connection terminals (terminals 14, 15)								
	Input	Start, interlock, contact reset Each input is a non-voltage (dry) contact input, with allowable contact resistance up to 500 Ω								
	Feedback input	Ignition transformer feedback, main valve feedback Voltage contact input and detection voltage of 65 V or lower (initial value) for each input								
	Output (contact rating)	Ignition transformer	Lo solenoid valve	Load power (output)	Hi solenoid valve	Alarm/ alarm 1	Alarm 2	External IG relay output	External MV relay output	
		300 VA	200 VA	300 VA	200 VA	75 VA	0.2 A 30 V DC or 75 VA	30 mA 30 V DC	30 mA 30 V DC	
	Event output*1 Flame output*1 SSR-MV*1 SSR-IG*1	30 mA 30 V DC max.								
	Flame voltage output	0–5 V			AUR255C	AUR255B				
Flameout detection			0.4 V min.	0.2 V min.						
Ignition detection			1.0 V max.	1.0 V max.						
Product life	AUR255_3			10 years or 100,000 relay operations						
	AUR255_4			10 years or 2,500,000 relay operations						
Operating conditions	Ambient temperature	Separately mounted unit: –20 to +60 °C Gang mounted units: –20 to +45 °C								
	Ambient humidity	90 % RH at 40 °C								
	Vibration resistance	0–3.2 m/s ² (10–150 Hz, 1 octave/minute, 10 cycles, in each of the XYZ directions)								
	Shock	0–9.8 m/s ² (10–150 Hz, 1 octave/minute, 10 cycles, in each of the XYZ directions)								
General specifications	Protective structure	IP40: if sideboards (81447515-001) are attached to the sub-base (model BC-R05) IP10: sub-base (model BC-R05) only								
	Pollution degree	PD2								
	Case color	Black								
	Structure	Sub-base and main unit								
	Mounting orientation	Mount so that the front panel is vertical, with the loader jack at the bottom.								
	Standards compliance	JIS C 9730-2-5: 2010 (<i>Automatic Electrical Controls for Household and Similar Use - Part 2-5: Particular Requirements for Automatic Electrical Burner Control Systems</i>)*3 <u>Certifications</u> CE*4 <ul style="list-style-type: none"> Gas Appliances Regulation (2016/426/EU) based on EN 298:2012 Low Voltage Directive (2014/35/EU) based on EN 60730-2-5:2015 Electromagnetic Compatibility Directive (2014/30/EU) based on EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55011:2016+A1:2017+A11:2020, EN 60730-1:2011 RoHS Directive (2011/65/EU) based on EN IEC 63000:2018 FM Approved in FM7610*4 UL Listed in UL 60730-2-5 (certified models: AUR255_____1_, AUR255_____3_, AUR255M_____7_)*4								
		Dimensions	W95 × H105 × D110 mm (incl. sub-base)							
	Weight	Approximately 600 g (incl. sub-base)								

Item	Description			
	Signal	Wiring type	Recommended length	Max. length
Wiring types and max. wiring length	Startup input (START)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	20 m max.	100 m* ¹
	Contact reset input (RESET)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	–	10 m* ²
	Interlock (IL)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	20 m max.	100 m* ¹
	Input for flame controller (FC)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	20 m max.	100 m* ¹
	Event output (EV)	0.75 mm ² (diameter: 0.18, strand count: 30) or larger, in compliance with JIS C 3306.	–	–
	Flame monitor output (FR-FL)	0.75 mm ² (diameter: 0.18, strand count: 30) or larger, in compliance with JIS C 3306.	–	–
	External IG relay (EX-IG)	0.75 mm ² (diameter: 0.18, strand count: 30) or larger, in compliance with JIS C 3306.	–	–
	External MV relay (EX-MV)	0.75 mm ² (diameter: 0.18, strand count: 30) or larger, in compliance with JIS C 3306.	–	–
	Relay output (MV, IG, LO, COM-G)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	–	–
	Alarm/alarm 1 output (AL)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	–	–
	Alarm 2 output (SO)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ²	–	–
	AUD15 + AUD1_0 (F, G)	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ² or larger	–	200 m
	Flame rod (F, G)	RG-11/U (JAN standard: US DoD-compliant specification) Alternatively, the equivalent 5C2V or 7C2V (JIS standard)	20 m max.	30 m
	RS-485 communications (3-wire system)	Twisted-pair shielded cable Recommended: JCS 4364 cable for low-power instruments, 4 cores (2 pairs)	100 m max.	500 m
	Flame voltage output	Copper 600 V PVC-insulated cable (IEC 60227-3), 1.25 mm ² or larger	–	10 m

*1. If an inductive load is connected, connect a protective circuit such as an RC snubber in parallel with the load.

*2. For details on the contact reset input specification, see *Burner Controller Model AUR255 User's Manual*, No. CP-SP-1467 (in Japanese)

*3. There is no certifying body for JIS standards. By obtaining third-party certification for the equivalent European (CE) or North American (UL/FM, etc.) standards, the product can be considered to be compliant with JIS C 9730-2-5:2010.

*4. The AUR255C and AUR255R are certified if they are used in combination with the AUD100/110/120.

Model selection

● Burner controller for simultaneous ignition: model AUR255M3

Ex.: AUR255M353070

Basic model No.	Flame detector	Sequence	Ignition trial*1	Main trial	Flame failure response time	Power	Other*2	Description	Note
AUR255								Batch operation	
	M							None	
		3						Burner controller for simultaneous ignition	
			5					4.5 ± 0.5 s	
			A					9.0 ± 1.0 s	
			F					13.5 ± 1.5 s	
				3				4.5 ± 0.5 s	
					0			–	Depends on the AUR255_3.
						7		100–220 V AC	
							0	None	
						D	With inspection data		

*1. The ignition trial time must be the same for AUR255_3 controllers used together.

*2. The printed circuit boards of all models are varnished, so tropicalization treatment is not offered as an additional function.

● Burner controller for simultaneous ignition pulse operation: model AUR255M4

Ex.: AUR255M450070

Basic model No.	Flame detector	Sequence	Ignition trial*1	Main trial	Flame failure response time	Power	Other*2	Description	Note
AUR255								Batch operation	
	M							None	
		4						Burner controller for simultaneous ignition pulse operation	
			5					4.5 ± 0.5 s	
			A					9.0 ± 1.0 s	
			F					13.5 ± 1.5 s	
				0				None	
					0			–	Depends on the AUR255_4.
						7		100–220 V AC	
							0	None	
						D	With inspection data		

*1. The ignition trial time must be the same for AUR255_4 controllers used together.

*2. The printed circuit boards of all models are varnished, so tropicalization treatment is not offered as an additional function.

● Flame controllers for simultaneous ignition: models AUR255_3, AUR255_4*3

Ex.: AUR255C350310

Basic model No.	Flame detector	Sequence	Ignition trial*1	Main trial	Flame failure response time	Power	Other*2	Description	Note
AUR255								Batch operation	
	B							Flame rod	
	C							AUD100/110/120	
	R							AUD100/110/120 (high amplification)	
		3						Flame controller for simultaneous ignition	
		4						Flame controller for simultaneous ignition pulse operation	
		5						4.5 ± 0.5 s	
		A						9.0 ± 1.0 s	
		F						13.5 ± 1.5 s	NFPA-compliant time
			0					None	
					3			4 s max.	Nominal (printed on label): 3 s
					2			2 s max.	Nominal (printed on label): 1.5 s
						1		100 V AC	
						2		200 V AC	
						3		120 V AC	
					4		220 V AC		
						0	None		
						D	With inspection data		

*1. The ignition trial time must be the same for AUR255M controllers used together.

*2. The printed circuit boards of all models are varnished, so tropicalization treatment is not offered as an additional function.

*3. “_” stands for B, C, or R.

Related devices

● Compatible ultraviolet flame detector (sold separately)

Model No.	Name	Note
AUD15C1000	Advanced ultraviolet flame detector tube unit	Use the AUD100/110/120 as the dedicated socket for the tube unit.
AUD100C100_	Dedicated socket for the AUD15	AUD15C1000 not included
AUD100C1000-A15	Lead wire type	AUD15C1000 included
AUD110C100_	Dedicated socket for the AUD15	AUD15C1000 not included
AUD110C1000-A15	Terminal block type	AUD15C1000 included
AUD120C120_	Dedicated socket for the AUD15	Without G½ adapter, AUD15C1000 not included
AUD120C121_	½-inch mounting type	With G½ adapter, AUD15C1000 not included

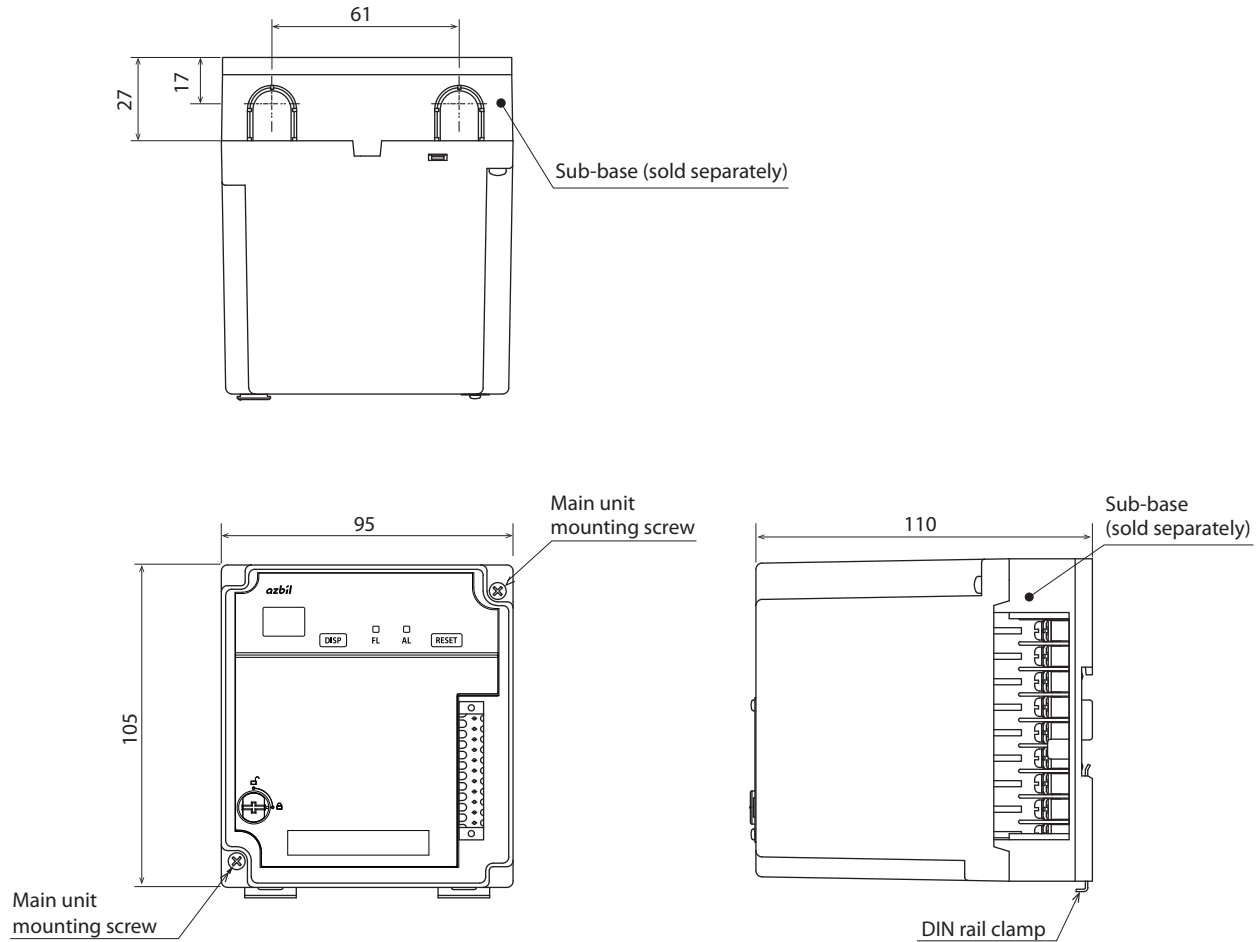
_ : 0: standard product, D: with inspection record (with data), T: tropicalization (AUD110C only), B: with inspection record (with data) + tropicalization (AUD110C only)

● Optional parts (sold separately)

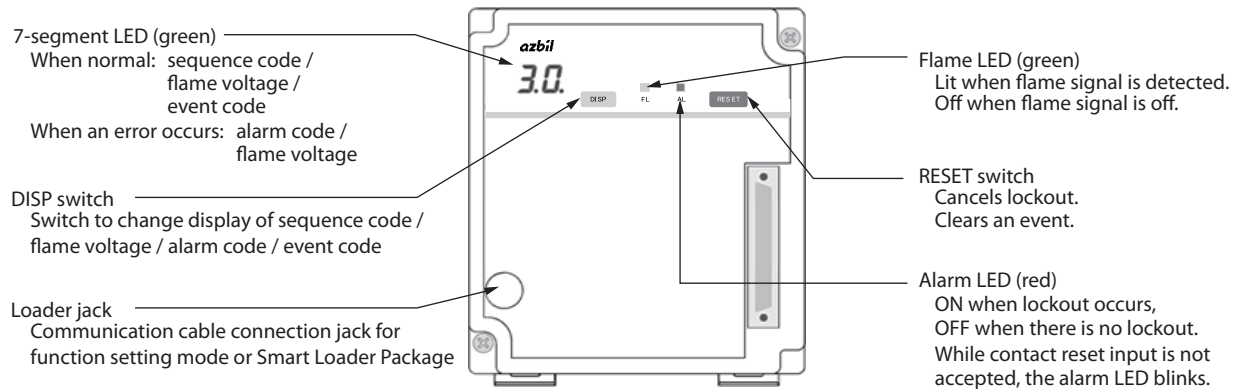
Model No.	Name
BC-R05A100	Sub-base
81447515-001	Sideboard
83968019-001	Lightning-induced surge absorber
81441177-001	USB loader cable
SLP-A55J91	Smart Loader Package
81447514-001	Connector for front wiring
81447514-002	Connector for front wiring (for right-side wiring)
81447531-001	Front connector cover (includes mounting screw)
FSP136A100	Analog flame meter
FSP300BC100	Flame simulator

Dimensions

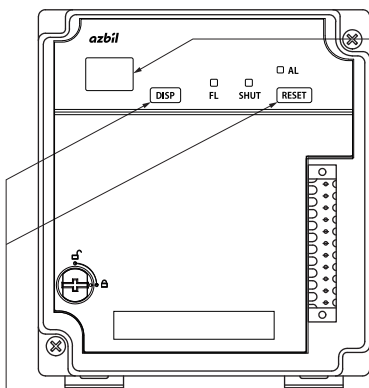
Unit: mm



Part names



7-segment display



DISP switch:
Switches the display between the sequence code and flame voltage

RESET switch:
Resets the alarm for lockout

● Sequence code

In normal operation, the sequence code corresponding to each operating status is displayed.

The table below shows the code and the operating status.

AUR255M3 sequence codes

Display	Status
P1	Start check
P4	Ignition trial
P5	Hi solenoid valve ignition standby
P6	Hi solenoid valve ignition
P8	RUN (normal combustion)
--	Standby

AUR255_3 sequence codes

Display	Status
P1	Start check
P4	Ignition trial
PF	Flame monitoring
--	Standby

AUR255M4 sequence codes

Display	Status
P1	Start check
P4	Ignition trial
P8	RUN (normal combustion)
--	Standby

AUR255_4 sequence codes

Display	Status
P1	Start check
P4	Ignition trial
PF	Flame monitoring
--	Standby

● Alarm code

If lockout occurs, an alarm code is displayed automatically.

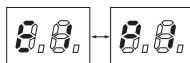
The alarm code and the code for the sequence step where the lockout occurred are displayed alternately.

Display	Name	Description
E0	Interlock error	Interlock activated.
E1	False flame error	Flame signal was detected for 5 s during start check.
E3	Flame controller error	The "Input for flame controller" terminals were shorted at startup. The "Input for flame controller" terminals were opened during operation.
E6	Ignition failure	Ignition could not be detected during the ignition trial.
E7	Flame failure	The flame signal was lost in the sequence after the ignition trial.
E9 + Sub-code (2 digits)*	Device error	Abnormal voltage detected in the output from the ignition transformer, Lo solenoid valve, Hi solenoid valve, main valve, etc.

*For details, refer to CP-SP-1467 (in Japanese).

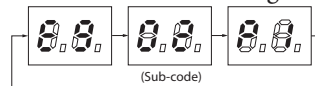
Examples of alarm and sequence code display

- Alarm code: E0-E8



The item displayed changes every 0.8 s.

- Alarm code: E9 + 2-digit sub-code



The item displayed changes every 0.8 s.

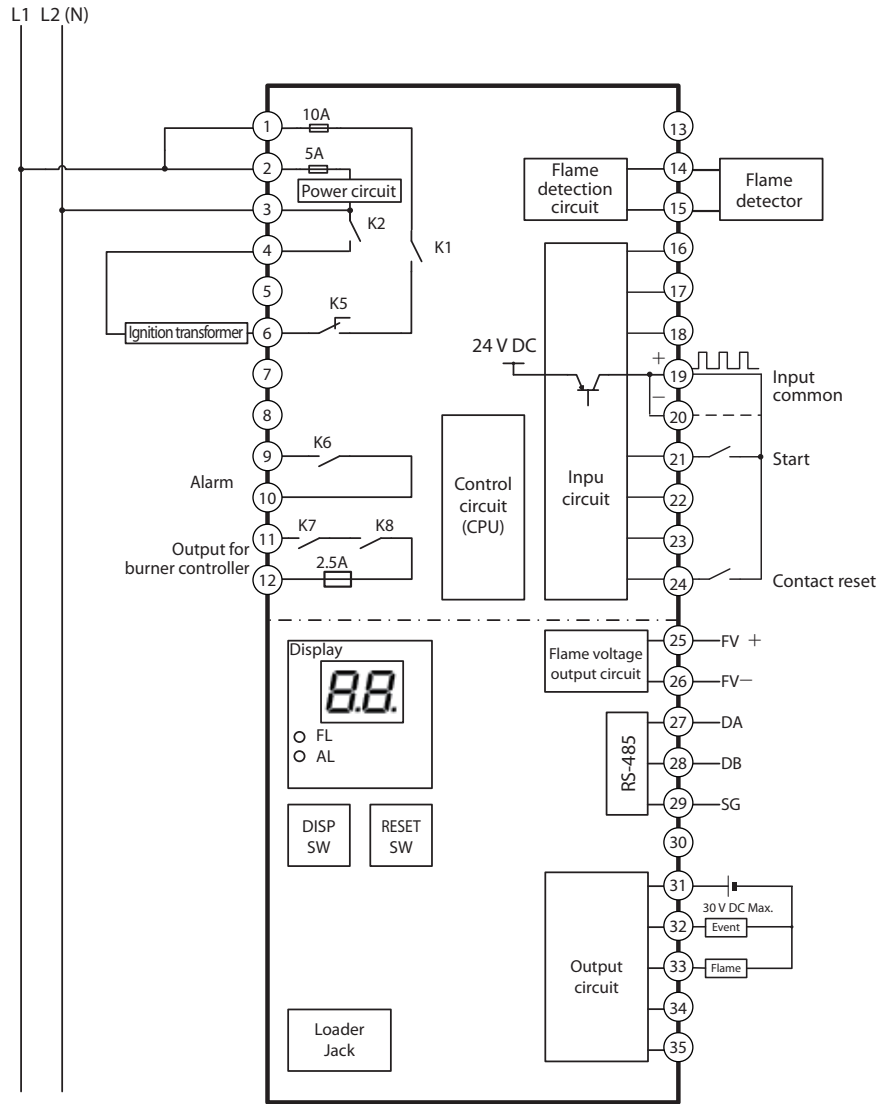
● Event code

If an event specified in advance occurs, the event output turns on.

Event code	Event name	Condition for event
R1	UV flame detector check (combustion time)	Turns ON if the combustion time exceeds the value set for "UV flame detector check (combustion time)."
R2	Product service life check (total operating time)	Turns ON if the total operating time exceeds the value set for "Product service life check (total operating time)."
R3	Product service life check (total combustion count)	Turns ON if the total combustion count exceeds the values set for "Product service life check (total combustion count)."
Rb	Instantaneous interruption	Turns ON if a momentary interruption of the power occurs during startup.

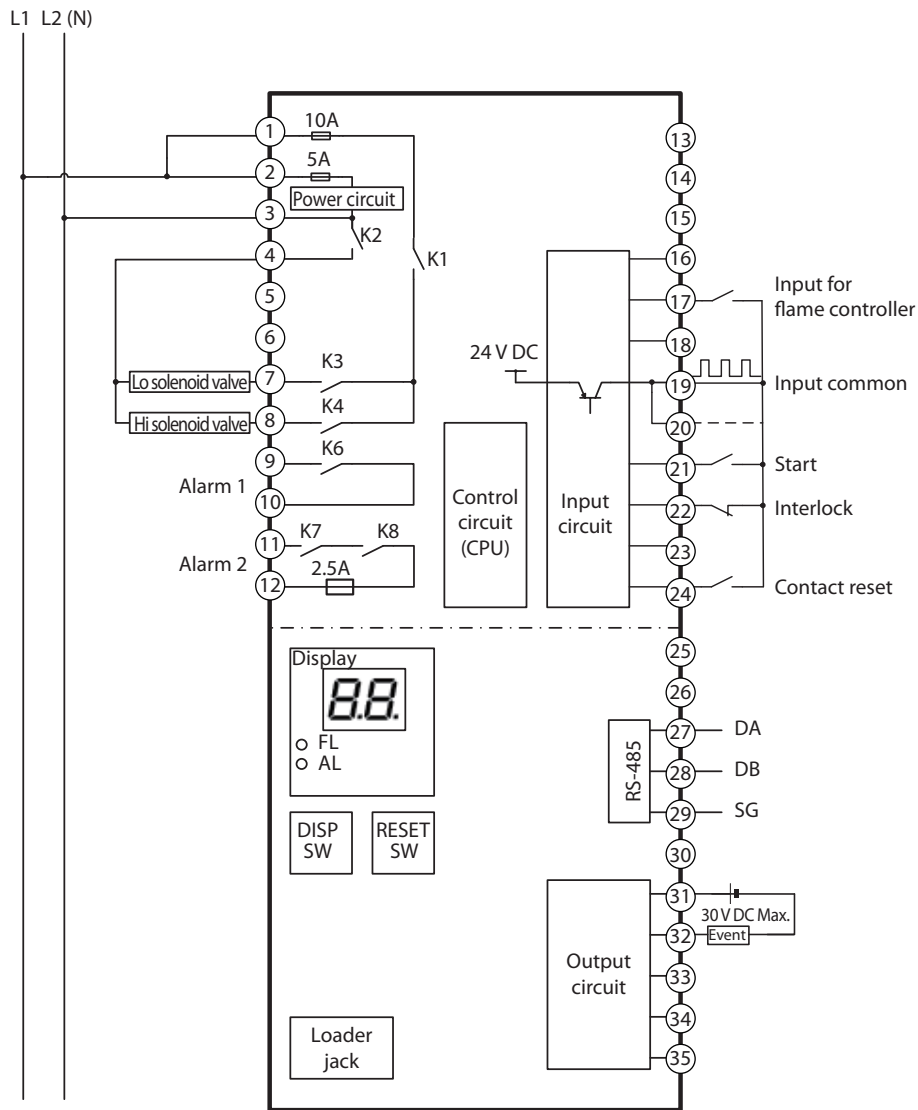
Wiring and internal block diagrams

● Model AUR255_3



- Note:
- The contact reset must be used independently (by a single AUR255 device only). Do not use the terminal for contact reset of other AUR255 devices.
 - Do not share the output common (terminal 4) and the input common (terminals 19, 20) with other AUR255 devices.

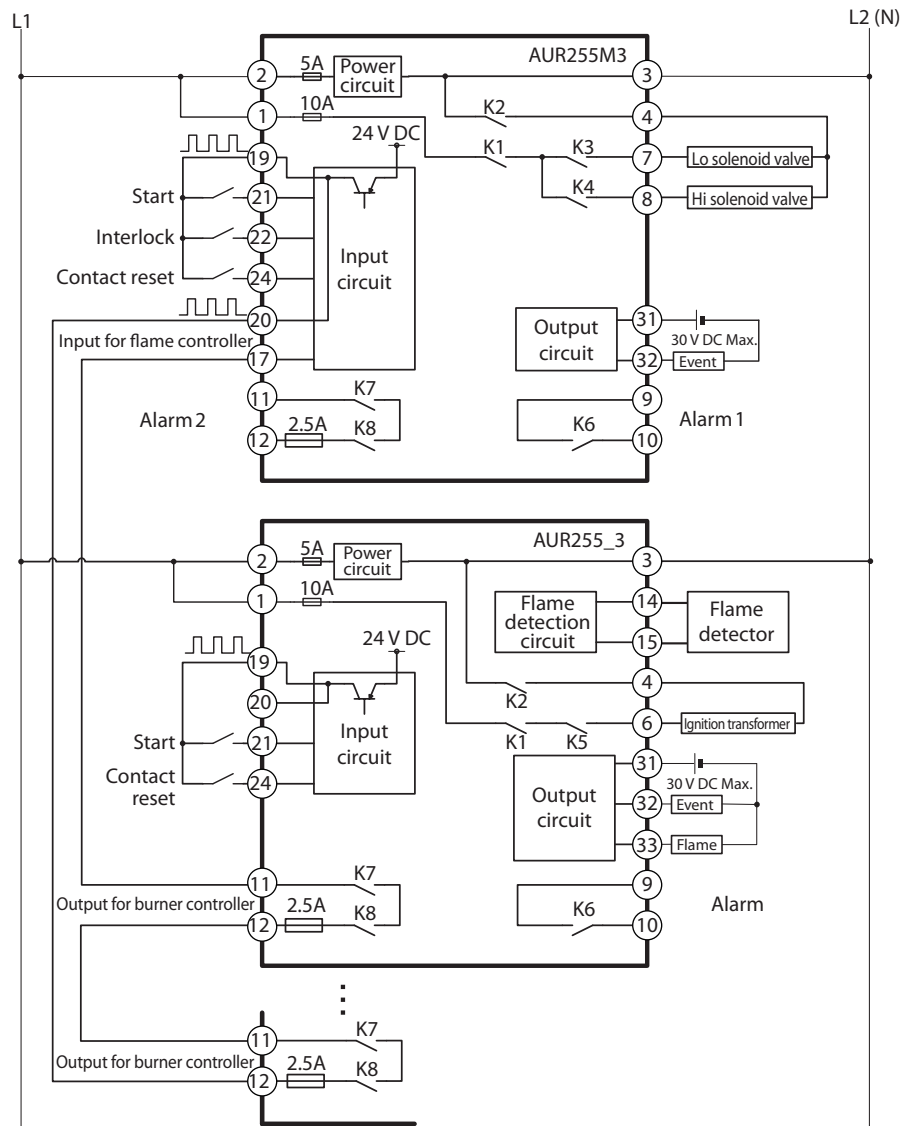
● Model AUR255M3



Note: • The contact reset must be used independently (by a single AUR255 device only). Do not use the terminal for contact reset of other AUR255 devices.

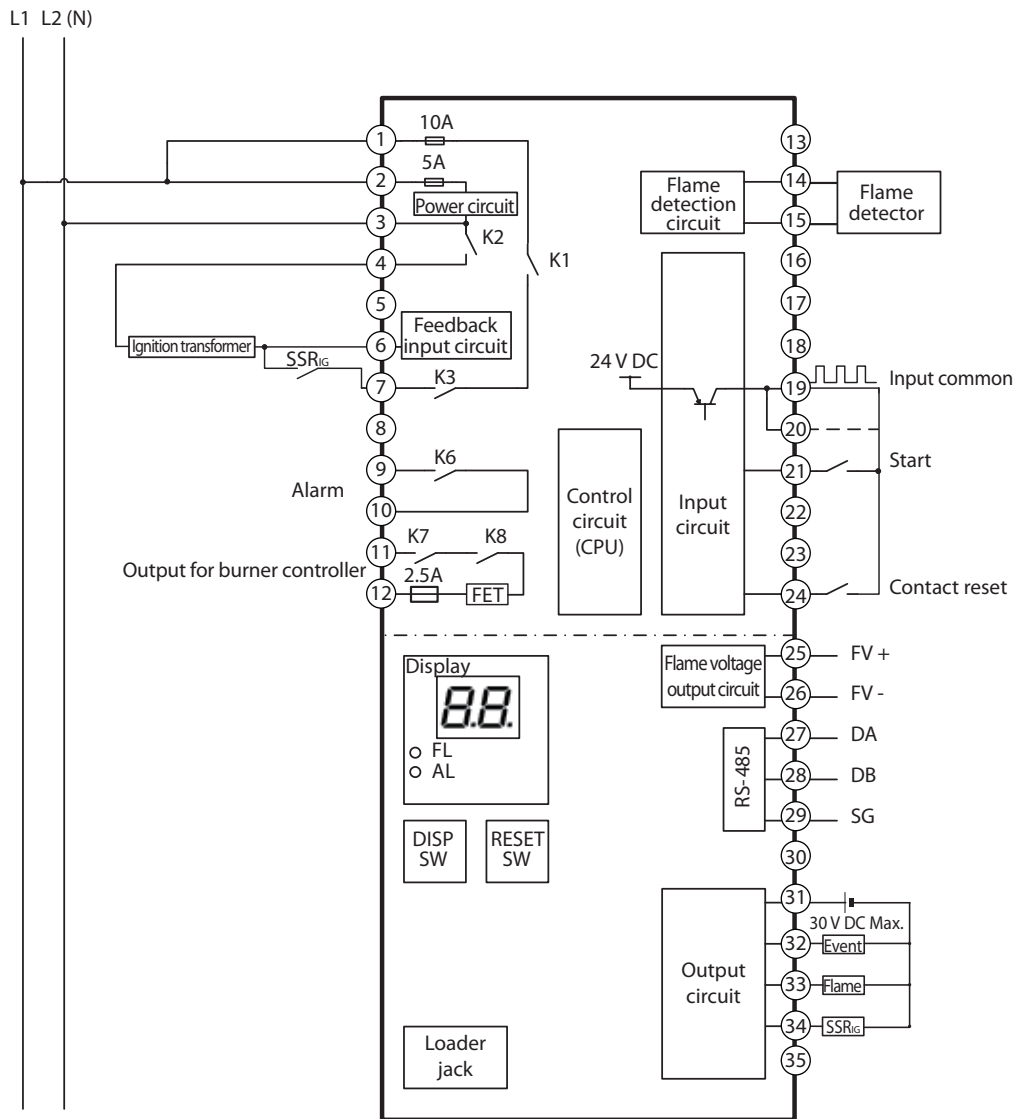
• Do not share the output common (terminal 4) and the input common (terminals 19, 20) with other AUR255 devices.

● Models AUR255M3 + AUR255_3



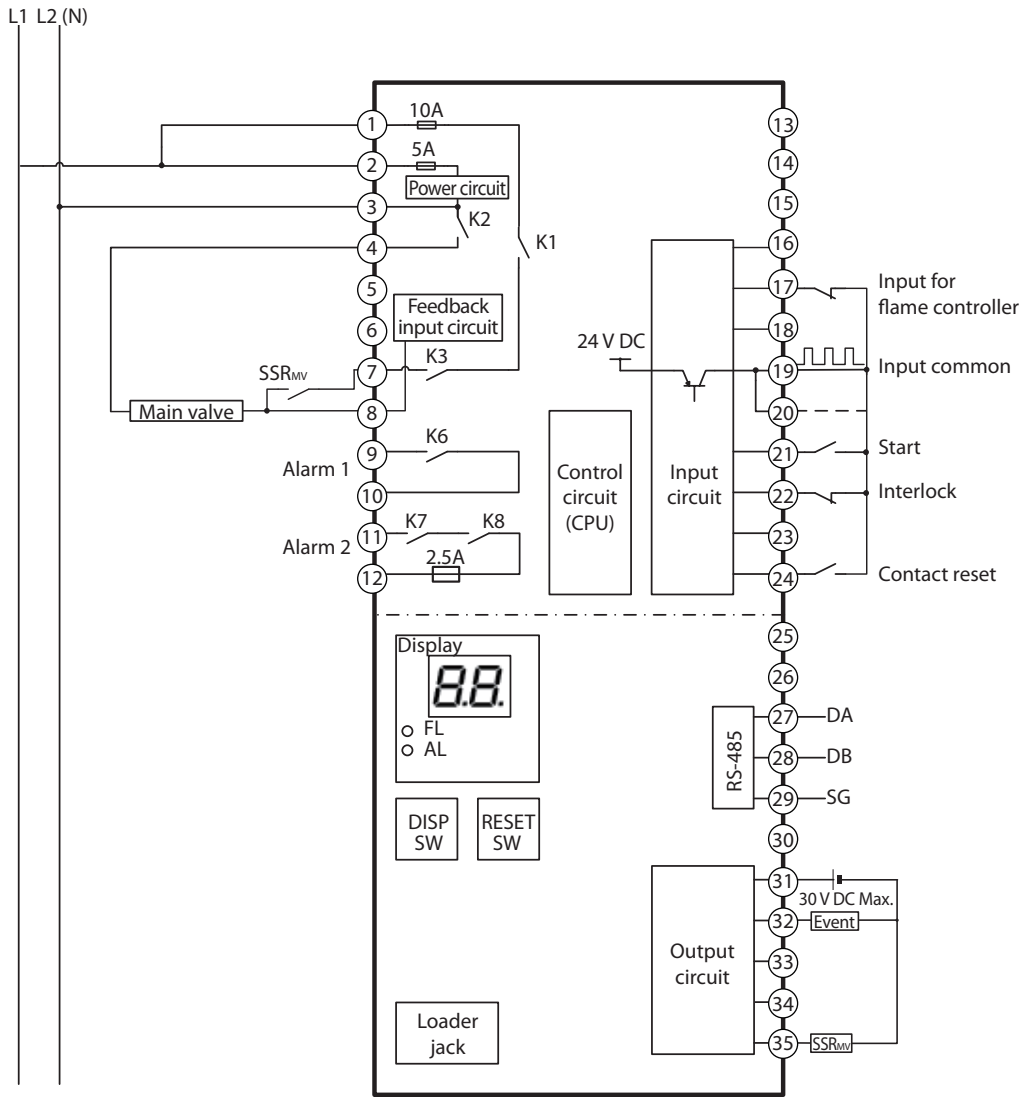
- Note:
- Use connected models that have the same ignition trial time.
 - Up to six AUR255_3 flame controllers can be connected.

● Model AUR255_4



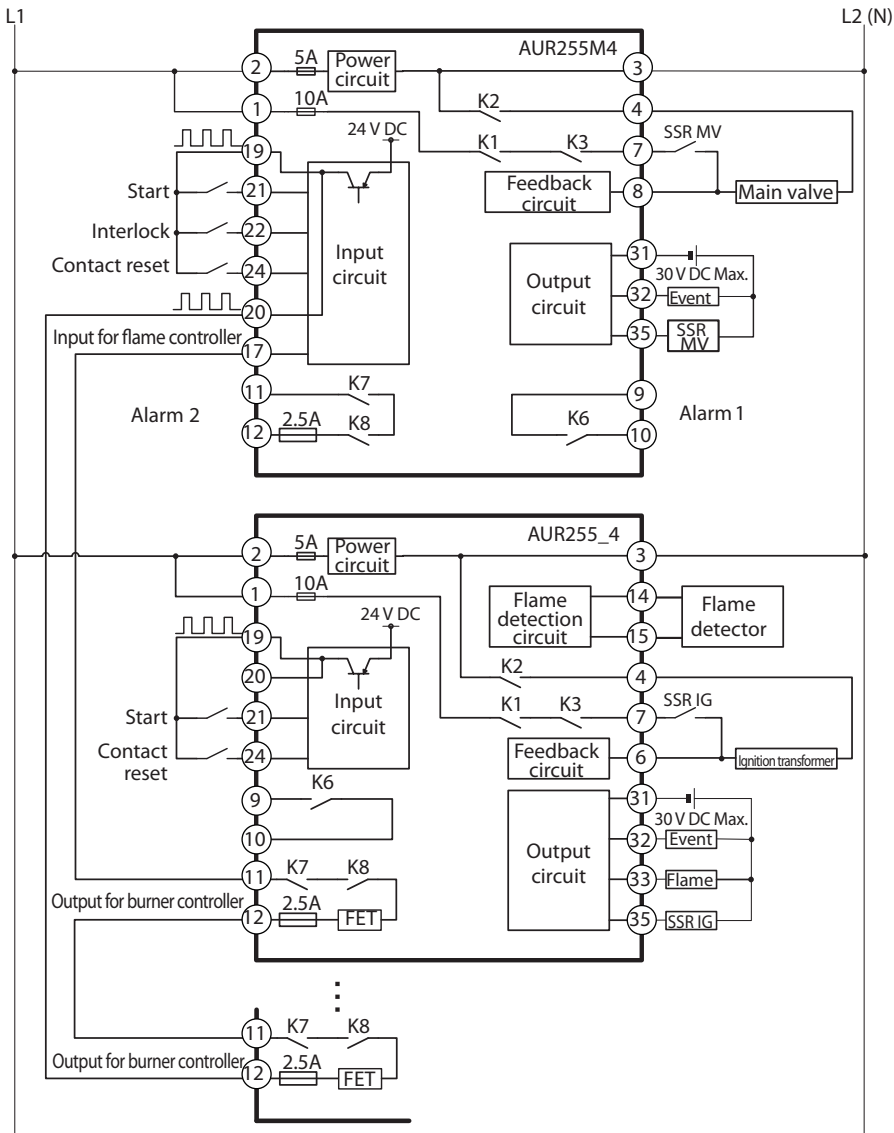
- Note:
- The contact reset must be used independently (by a single AUR255 device only). Do not use the terminal for contact reset of other AUR255 devices.
 - Do not share the output common (terminal 4) and the input common (terminals 19, 20) with other AUR255 devices.

● Model AUR255M4



- Note:
- The contact reset must be used independently (by a single AUR255 device only). Do not use the terminal for contact reset of other AUR255 devices.
 - Do not share the output common (terminal 4) and the input common (terminals 19, 20) with other AUR255 devices.

● Models AUR255M4 + AUR255_4



- Note:
- Use connected models that have the same ignition trial time.
 - Up to six AUR255_4 flame controllers can be connected.

Terminals and characteristics

● Terminal layout (sub-base): model AUR255_3

No.	Code	Name	I/O	Function
1	-	Load power	-	Power for the ignition transformer
2	AC-H	Power (H)	-	Power to drive this device
3	AC-G	Power (G)	-	Power to drive this device
4	COM-G	Output common	-	Connection common for the ignition transformer
5	-	Not used	-	
6	IG	Ignition transformer	O	Current-carrying terminal for ignition transformer
7	-	Not used	-	
8	-	Not used	-	
9	AL-NO	Alarm output	O	Output ON upon lockout
10	AL-COM	Alarm output	O	Output OFF if no lockout
11	SO-NO	Output for burner controller	O	For connecting the AUR255M3
12	SO-COM	Output for burner controller	O	For connecting the AUR255M3
13	-	Not used	-	-
14	F	Flame detector (F)	I	Connects the flame detector.
15	G	Flame detector (G)	I	
16	-	Not used	-	-
17	-	Not used	-	-
18	-	Not used	-	-
19	COM1	Input common 1	-	-
20	COM2	Input common 2	-	-
21	START	Start input	I	Startup input of this device
22	-	Not used	-	-
23	-	Not used	-	-
24	RESET	Contact reset input	I	Reset input of this device

● Terminal layout (front connector terminals): model AUR255_3

No.	Code	Function	No.	Code	Function
25	FV+	Positive flame voltage	31	FR-COM	Common for terminals 32–35
26	FV-	Negative flame voltage	32	EV	ON when an event occurs
27	DA	RS-485 (DA)	33	FR-FL	ON when flame is detected
28	DB	RS-485 (DB)	34	-	Not used
29	SG	RS-485 (SG)	35	-	Not used
30	-	Not used			

● Terminal layout (sub-base): model AUR255M3

No.	Code	Name	I/O	Function
1	-	Load power	-	Power for the fuel valve
2	AC-H	Power (H)	-	Power to drive this device
3	AC-G	Power (G)	-	Power to drive this device
4	COM-G	Output common	-	Connection common for the solenoid valve
5	-	Not used	-	-
6	-	Not used	-	-
7	LO	Lo solenoid valve	O	Drive terminal for the Lo solenoid valve
8	MV	Hi solenoid valve	I	Drive terminal for the Hi solenoid valve
9	AL-NO	Alarm 1	O	Output ON upon lockout
10	AL-COM	Alarm 1	O	Output OFF if no lockout
11	SO-NO	Alarm 2	O	Output OFF upon lockout
12	SO-COM	Alarm 2	O	Output ON if no lockout*1
13	-	Not used	-	-
14	-	Not used	-	-
15	-	Not used	-	-
16	-	Not used	-	-
17	FC	Input for flame controller	I	For connecting the AUR255_3
18	-	Not used	-	-
19	COM1	Input common 1	-	-
20	COM2	Input common 2	-	-
21	START	Start	I	Startup input of this device
22	IL	Interlock	I	Interlock monitoring input for this device.
23	-	Not used	-	-
24	RESET	Contact reset	I	Reset input of this device

*1. OFF for 8 to 10 seconds at power-on.

● Terminal layout (front connector terminals): model AUR255M3

No.	Code	Function	No.	Code	Function
25	-	Not used	31	FR-COM	Common for terminals 32-35
26	-	Not used	32	EV	ON when an event occurs
27	DA	RS-485 (DA)	33	-	Not used
28	DB	RS-485 (DB)	34	-	Not used
29	SG	RS-485 (SG)	35	-	Not used
30	-	Not used			

● Terminal layout (sub-base): model AUR255_4

No.	Code	Name	I/O	Function
1	-	Load power	-	Power for the ignition transformer
2	AC-H	Power (H)	-	Power to drive this device
3	AC-G	Power (G)	-	Power to drive this device
4	COM-G	Output common	-	Connection common for the ignition transformer
5	-	Not used	-	
6	IG	Ignition transformer F/B	I	Feedback input terminal for ignition transformer
7	LO	Load power (output)	O	Power output for the ignition transformer
8	-	Not used	-	
9	AL-NO	Alarm	O	Output ON upon lockout
10	AL-COM	Alarm	O	Output OFF if no lockout
11	SO-NO	Output for burner controller	O	For connecting the AUR255M4
12	SO-COM	Output for burner controller	O	For connecting the AUR255M4
13	-	Not used	-	-
14	F	Flame detector (F)	I	Connects the flame detector.
15	G	Flame detector (G)	I	
16	-	Not used	-	-
17	-	Not used	-	-
18	-	Not used	-	-
19	COM1	Input common 1	-	-
20	COM2	Input common 2	-	-
21	START	Start	I	Startup input of this device
22	-	Not used	-	-
23	-	Not used	-	-
24	RESET	Contact reset	I	Reset input of this device

● Terminal layout (front connector terminals): model AUR255_4

No.	Code	Function	No.	Code	Function
25	FV+	Positive flame voltage	31	FR-COM	Common for terminals 32-35
26	FV-	Negative flame voltage	32	EV	ON when an event occurs
27	DA	RS-485 (DA)	33	FR-FL	ON when flame is detected
28	DB	RS-485 (DB)	34	EX-IG	Drives the external IG relay.
29	SG	RS-485 (SG)	35	-	Not used
30	-	Not used			

● Terminal layout (sub-base): model AUR255M4

No.	Code	Name	I/O	Function
1	-	Load power	-	Power for the fuel valve
2	AC-H	Power (H)	-	Power to drive this device
3	AC-G	Power (G)	-	Power to drive this device
4	COM-G	Output common	-	Connection common for the solenoid valve
5	-	Not used	-	-
6	-	Not used	-	-
7	LO	Load power (output)	O	Power output for the main valve
8	MV	Main valve F/B	I	Feedback input terminal for main valve
9	AL-NO	Alarm 1	O	Output ON upon lockout
10	AL-COM	Alarm 1	O	Output OFF if no lockout
11	SO-NO	Alarm 2	O	Output OFF upon lockout
12	SO-COM	Alarm 2	O	Output ON if no lockout*1
13	-	Not used	-	-
14	-	Not used	-	-
15	-	Not used	-	-
16	-	Not used	-	-
17	FC	Input for flame controller	I	For connecting the AUR255_4
18	-	Not used	-	-
19	COM1	Input common 1	-	-
20	COM2	Input common 2	-	-
21	START	Start	I	Startup input of this device
22	IL	Interlock	I	Interlock monitoring input for this device.
23	-	Not used	-	-
24	RESET	Contact reset	I	Reset input of this device

*1. OFF for 8 to 10 seconds at power-on.

● Terminal layout (front connector terminals): model AUR255M4

No.	Code	Function	No.	Code	Function
25	-	Not used	31	FR-COM	Common for terminals 32-35
26	-	Not used	32	EV	ON when an event occurs
27	DA	RS-485 (DA)	33	-	Not used
28	DB	RS-485 (DB)	34	-	Not used
29	SG	RS-485 (SG)	35	EX-MV	Drives the external MV relay.
30	-	Not used			

-Memo-

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Specifications are subject to change without notice.

The logo for Azbil Corporation, featuring the word "azbil" in a bold, lowercase, sans-serif font.

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