

# **Correction Reissue**

# OMRON

# Product Discontinuation Notices

**Timers** 

Issue Date November 4, 2014

No. 2014039CE(2)

## **Discontinuation Notice of H2F Motor Time Switch**

#### << REQUEST >>

There was modification in portion of Product Discontinuation notices of Product News No. 2014039CE issued in March 2014. What we have changed is addition of the Product Discontinuation Y92S-24. Please abolish old edition and replace the latest No. 2014039CE(2).

## **Product Discontinuation**

Motor Time Switch

Model H2F-D/-30,-31

Motor Time Switch

Model H2F-WM/-43

Trippers (1 set for ON and OFF)

Model Y92S-21 (SET PIN FOR H2F)

Attachment bracket

**Model Y92S-24** 

# **Recommended Replacement**

Digital Daily Time Switch

**Model H5F** 

Digital Time Switch

Model H5S-W

No recommended replacement

No recommended replacement



The end of March, 2015

#### [ Caution on recommended replacement ]

- Rated and operating characteristics, mounting and operation methods, external dimensions, and wire connection, etc. are all widely changed
- · Please read the catalog carefully for your understanding before using the product.
- The battery Y92S-42 for H2F is also discontinued at the same time.
- For details, please check the Product News No. 2014037CE (Product Discontinuation Notices).

[ Difference from discontinued product ]

Recommended replacement Model	Body color	Dimensions	Wire connection	Mounting dimensions	Charact -eristics	Operation ratings	Operation methods
Model H5F	*					-	
Model H5S-W	*						

\*\* : Compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

# **OMRON**

[ Product discontinuation and recommended replacement ]

Product discontinuation	Recommended replacement
H2F-DMFC AC100-240	H5F-FB
HZF-DIVIFC AC 100-240	H5F-KB
U2F DMF AC400 240	H5F-FB
H2F-DMF AC100-240	H5F-KB
H2F-DMC AC100-240	H5F-B
H2F-DM AC100-240	H5F-B
H2F-DFC AC200/220/240	H5F-FB
H2F-DFC AC200/220/240	H5F-KB
H2F DEC AC100/410/420	H5F-FB
H2F-DFC AC100/110/120	H5F-KB
H2F-DF AC200/220/240	H5F-FB
H2F-DF AC200/220/240	H5F-KB
H2F-DF AC100/110/120	H5F-FB
H2F-DF AC100/110/120	H5F-KB
H2F-DC AC200/220/240	H5F-B
H2F-DC AC100/110/120	H5F-B
H2F-D AC200/220/240	H5F-B
H2F-D AC100/110/120	H5F-B
H2F-31	H5F-FB
H2F-31	H5F-KB
H2F-30	H5F-B
H2F-WMFC AC100-240	H5S-WFA2
H2F-WMF AC100-240	H5S-WFA2
H2F-WMC AC100-240	H5S-WA2
H2F-WM AC100-240	H5S-WA2
H2F-43 DC12/24 1W	H5S-WA2D
Y92S-21 (SET PIN FOR H2F)	No recommended replacement
Y92S-24	No recommended replacement

[ Body color ]

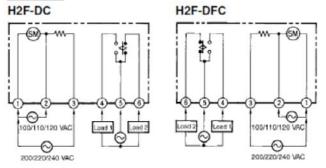
Product discontinuation	Recommended replacement			
Model H2F	Model H5F	Model H5S-W		
H2F Case color Light gray (Munsell 5Y7/1)	H5F Case color Light gray (Munsell 5Y7/1)	H5S-W Case color Light gray (Munsell 5Y7/1)		
DIT DIT TO AND	3:00	12:3458 1 2:3458		
Y92S-21 (H2F exclusive option) Gold (For ON) Silver (For OFF)	No recommended replaceme	ent, since H2F exclusive option		
Y92S-24 (H2F exclusive parts) Y92S-24 Exclusive adapter	No recommended replacement	ent, since H2F exclusive parts		

### Wire connection 1 **Product discontinuation** Recommended replacement Model H2F Model H5F/H5S-W Flush Mounting Flush Mounting Models Synchronous Motor Models: SPST-NO H5F-B H2F-D H2F-DF (Rear View) (SM) + W Power source 100 to 240 VAC 0 40 00/110/120 VAC 00/110/120 W $- \odot$ 0 0 200/2200 Quartz Motor Models: SPST-NO Output H2F-DMF H2F-DM, H2F-30 Power supply Motor circuit Motor circuit of load 0 <u>\_</u>0 100 to 240 VAC 100 to 240 VAC (See note.) Note: On the H2F-30 (12 to 24 VDC), terminal number 2 is positive and terminal number 3 is negative.

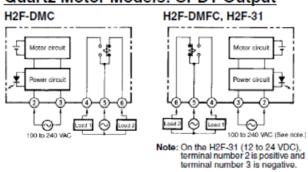
## Surface Mounting

# Synchronous Motor Models: SPDT

# Output

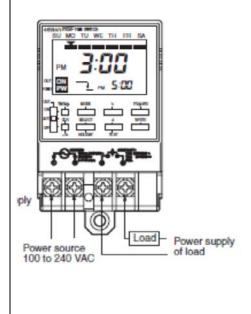


# **Quartz Motor Models: SPDT Output**



### Surface Mounting Models H5F-FB

(Front View)



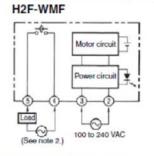
# Product discontinuation Model H2F

#### Recommended replacement Model H5F/H5S-W

# Flush Mounting

# **Quartz Motor Models: SPST-NO Output**

# H2F-WM, H2F-43 Motor circuit Power circuit 100 to 240 VAC (See note 1.) (See note 2.)

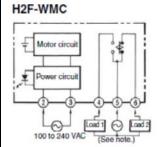


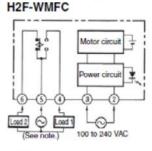
Note: 1. On the H2F-43 (12 to 24 VDC), terminal number 2 is positive and terminal number 3 is negative.

2. Use a separate power supply for the load.

# Surface Mounting

# Quartz Motor Models: SPDT Output

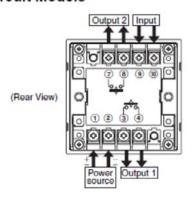




Note: Use a separate power supply for the load.

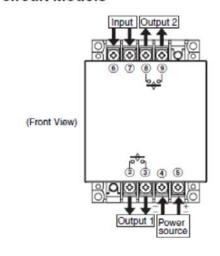
# H5S-□A□/-□B□ Flush Mounting Models

### Two-circuit Models



# H5S-□FA□/-□FB□ Surface Mounting Models

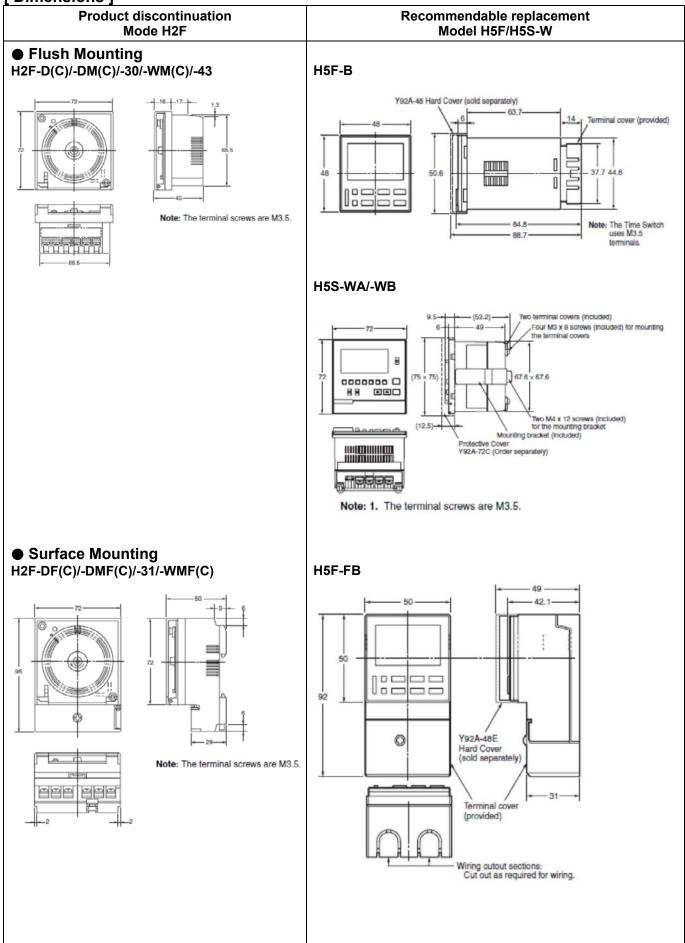
### **Two-circuit Models**



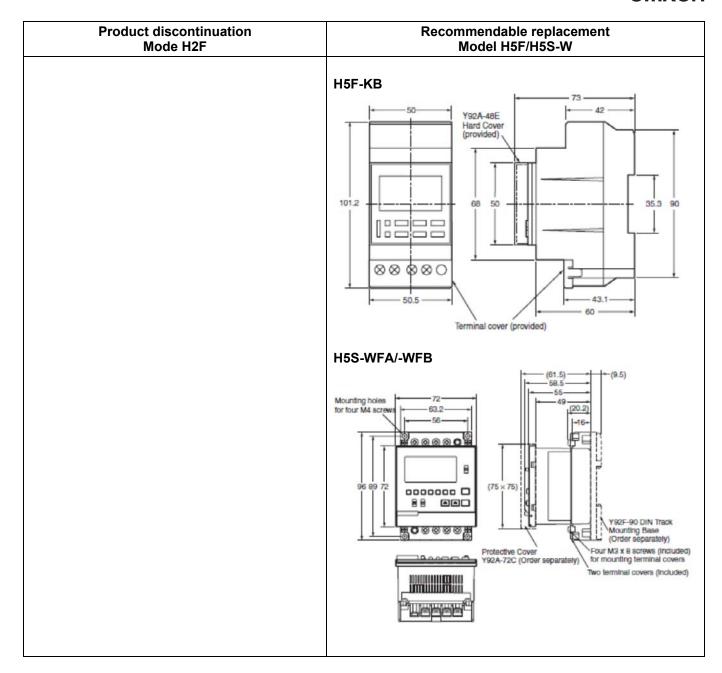
# [ Mounting dimensions ] **Product discontinuation** Recommended replacement Mode H2F Model H5F/H5S-W Flush Mounting H5F-B H2F-D(C)/-DM(C)/-30/-WM(C)/-43 **Panel Cutout Dimensions** $72 \times 72 \times 45 \text{ mm } (H \times W \times D)$ (according to DIN43700) (below faceplate: 29 mm) **Panel Cutout Dimensions** (according to DIN 43700) 17.5 27.5 45-0.5 68 +0.7 45+0.5 Note: Recommended panel thickness: 1 to 5 mm. -68,07 -H5S-WA/-WB Panel thickness: 1 to 3.2 mm **Panel Cutout** Note: The mounting adapter and mounting screws are enclosed. 68+0.8 Surface Mounting H2F-DF(C)/-DMF(C)/-31/-WMF(C)H5F-FB **Mounting Dimensions DIN Track Mounting Surface Mounting** (50) (92) **Mounting Screw Dimensions** M4 tapping screws provided. Approximate pilot hole dimensions: Note: The Time Switch Panel thickness of 0.8 to 1.2 mm; 3.6-mm dia. Panel thickness of 1.6 to 4.0 mm; 3.7-mm dia. uses M3.5 terminals. Screw size: 2-M3 M3 × 45 (enclosed) 61:02 -

# **Product discontinuation Recommended replacement** Mode H2F Model H5F/H5S-W H5F-KB **Mounting Hole Cutout Dimensions** (101.2) 117.4 104 to 106 (50.5)M4 tapping screws provided. Approximate pilot hole dimensions: Panel thickness of 0.8 to 1.2 mm: 3.6-mm dia. Panel thickness of 1.6 to 4.0 mm: 3.7-mm dia. H5S-WFA/-WFB (Surface mounted) Mounting holes 4-dla.\* Mounting panel \*Diameter of pilot holes for Included M4 tapping screws (guideline) Panel thickness t | 0.8 to 1.2 | 1.6 to 4 Hole diameter | 3.6 | 3.7 (DIN track mounted) Y92F-90 DIN Track Mounting Base (Order separately) DIN Track Mounting panel 71.1 \*1 79.8 \*2 Note: 1. Using a PFP-50N or PFP-100N Mounting Track. 2. Using a PFP-100N2 Mounting Track.

[ Dimensions ]



# **OMRON**



[ Ratings / Characteristics ]

	racteristics ]  Product discontinuation	Recommendable replacement			
Item	Model H2F	Model H5F	Model H5S-W		
Supply voltage	Synchronous motor: AC 100/110/120 V 50/60 Hz AC 200/220/240 V 50/60 Hz Quartz motor: AC 100 to 240 V 50/60 Hz, DC 12 to 24 V	AC 100 to 240 V 50/60 Hz	AC 100 to 240 V 50/60 Hz DC 24 V		
Operating voltage range	85 to 110% of rated supply voltage	85 to 110% of rated supply voltage	85 to 110% of rated supply voltage (85 to 120% for DC 24 V)		
Power consumption	Synchronous motor: 3 VA max. Quartz motor: 1 VA max. at AC 100 to 120 V 4 VA max. at AC 200 to 240 V 1 W max. at DC 12 to 24 V	Approx. 2.4VA (AC 264 V)	Approx. 2.9 VA (AC 100 to 240 V) Approx. 0.8 W (DC 28.8 V)		
Control outputs	Contact 1a, 1c AC 250 V 15 A (resistive load)	Contact 1a AC 250 V 15 A (resistive load) DC 24 V 10 A (resistive load)	Contact 1a AC 250 V 15 A (resistive load) AC 250 V 10 A (inductive load cosφ=0.7)		
Ambient operating temperature	−10 to 55°C (with no icing)	−10 to 55°C (with no icing)	-10 to 55°C (with no icing or condensation)		
Storage temperature	-25 to 65°C (with no icing)	−25 to 65°C (with no icing)	−25 to 65°C (with no icing)		
Ambient operating humidity	35 to 85%	35 to 85%	25 to 85%		
Elapsed time display method	No display for elapsed time	Digital display by LCD	Digital display by LCD		
Time setting	Time setting by the dial	Digital display by LCD	Digital display by LCD		
Operation time deviation / setting error / voltage influence, temperature influence	Operation time deviation *1 Voltage and temperature influences, : ±3min max. *1. Deviation in ON or OFF time Setting error *2 : ±3min max. *2.Time difference between the set time and time required to start operation when the pointer is set to the present time	(±0.01% ±0.05 s) max. *1 ±0.01% is the value against interval of set time *1. No higher than (±0.01% ±0.05 sec.) for total errors including operation time deviation, setting error, voltage and temperature influences.	(±0.01% ±0.05 s) max. *1 ±0.01% is the value against interval of set time *1. No higher than (±0.01% ±0.05 sec.) for total errors including operation time deviation, setting error, voltage and temperature influences.		
Compensation time of power failure	Quartz motor (H2F-DM[]/-30/-31) More than 180 h : Clock function (continuous), Output operation (valid), Setting (OK)	Over 5 year duration (25°C) Over 10 years (25°C, power failure 50% or less: integration time of power failure) (by lithium battery) : Clock function (continuous), Output operation (no valid/OFF), Setting (OK)	Over 5 years (25°C: compensation time of power failure denotes the calculated value when ambient temperature in power failure time (storing) is 25°C): Clock function (continuous), Output operation (no valid/OFF), Setting (OK)		
Weight	Flush Mounting: approx.150 g Surface Mounting: Approx. 200 g	Approx. 115 g (Model H5F-A) Approx. 160 g (Model H5F-KA) Approx. 130 g (Model H5F-FA)	Approx. 200 g		

[Operation ratings]

# Product discontinuation Model H2F

## **■** Time Spesifications

#### H2F-D[]/-30/-31

Type	Cycle	Minimum scale graduation	Minimum set time	Maximum set time
Daily	24 h	15 min	15 min	23 h 45 min

<sup>·</sup>Control output:15 A at 250 VAC, resistive load

#### H2F-WM[]/-43

Туре	Cycle	Minimum scale graduation	Minimum set time	Maximum set time
Weekly	Weekly	1 h	2 h	166 h

<sup>·</sup>Control output: 15 A at 250 VAC, resistive load

#### Recommended replacement Model H5F/H5S-W

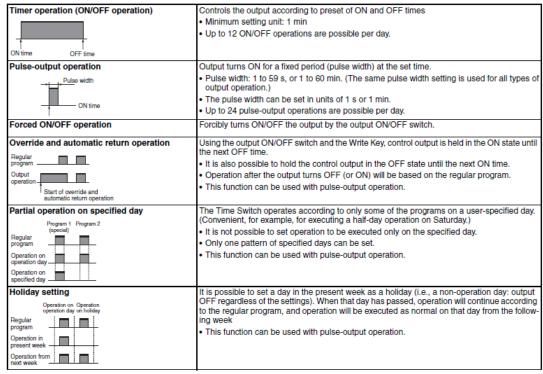
#### H5F

#### ■ Operation

Operation method	Digital quartz
Time range	24 h x 7 days (Operation days can be specified.)
Operation	Daily operation (Multiple-day operation possible.)
	<ol><li>Pulse-output operation (Pulse width can be set in units of 1 s from 1 to 59 s and in units of 1 min from 1 to 60 min.)</li></ol>
	<ol> <li>Partial operation on specified day (One or some of the operations for certain days can also be executed on other days.)</li> </ol>
	4. Forced ON/OFF operation
1	5. Holiday operation
	Output override and automatic return operation
Display	<ol> <li>Day, hours (12-hour (am/pm) or 24-hour clock), minutes (0:00 to 11:59 a.m./ 0:00 to 11:59 p.m., 0:00 to 23:59)</li> </ol>
	Digital display by LCD. Character height: 8 mm
1	Digital display of present time and time schedules for operation
1	Timing chart display of present time and time schedules for operation
Other functions	Program check function, summer time function
Number of circuits	1 independent circuit
Minimum setting unit	1 min
Minimum set interval	1 min
Number of operations that can be set	24 (see note)

Note: Up to 12 ON/OFF operations are possible per day. (For pulse-output operation, the number is 24.)

## ■ Operation Functions



Note: Both the timer operation and the pulse-output operation cannot be programmed together.

# Recommended replacement Model H5F/H5S-W

## H5S-W

# ■ Operation

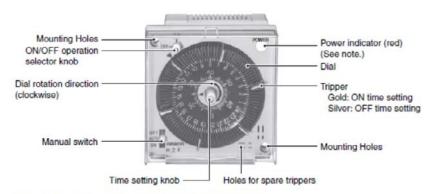
Item	H5S-W□2
Operation method	Digital quartz
Operation period	1week (7 days)
Display	Day, hrs (switchable between 24-hr indication and a.m./p.m. 12-hr indication), minutes, seconds (0.00 to 23:59, 0.00 to 11:59 a.m., 0.00 to 11:59 p.m.) Digital indication by LCD (character height: 10 mm) Digital display of operation schedule during operation triming chart display of operation schedule during operation
Min. setting unit	1min
Number of steps that can be set	Weekly program 40 steps/circuit

# **■** Operation Functions

Item	H5S-W□2			
Weekly timer operation	Controls the output according to the set time of ON and OFF •Min. setting unit: 1 min •Multiple-day operation also possible	Timer operation ON OFF		
Weekly pulse output operation	Output turns ON for a fixed period (pulse width) at the set ON •Pulse width: 1 to 59 s (in 1-s increments), or 1 to 60 min (in 1 •The pulse width can be set for each step.			
Weekly cyclic operation	Repeatedly turns ON and OFF during the period from the cycl Independent ON- and OFF-time settings are possible.  •Min. setting unit: 1 min (The ON time width and OFF time width can each be set to between 1 minute and 11 hours 59 minutes.) The timer operation repeatedly turns the signal ON and OFF for the time widths specified by the ON time and OFF time during the period from the day of the week and time that are set for the cyclic start time to the day of the week and time that are set for the stop time.	Cyclic operation  Start ON Stop		
Temporary holiday setting	Sets temporary holidays (non-operating days) without having	to revise the existing program.		
Day override operation	Operation for one day can be temporarily executed on anothe (The change data for setup day is valid 1week only.)	r day.		
Program check	Consecutively displays the days and times when the output is course of one week in the sequence in which the Time Switch	set to turn ON and OFF over the is to operate.		
Checking the settings	Consecutively displays the times when the output is set to turn sequence in which the Time Switch is to operate.	ON and OFF for one day in the		
Forced ON/OFF operation	Allows the output to be forcibly turned ON/OFF by the Output C control output setting.	DN/OFF Switch regardless of the		
Override and automatic return operation	Allows the control output to be maintained in the ON (or OFF) time. This operation is controlled by using the Output ON/OFF completed, the Time Switch automatically resumes the previous	Switch and Write Key. When		
Summertime (DST) adjustment	Switches the current time from "current time" to "current time - Yearly models also offer automatic switching to daylight saving			
Time counter/ total counter display	Displays the total elapsed time and total count of external input a set value is entered.	. It also displays a warning when		
Time adjustment input	Allows the time to be set to 00 min 00 s at the same time as a	n external input is applied.		
Manual operation on recovery from power failure	Allows the output state to be specified following recovery from	a power failure		
Bank switching	Allows two groups (banks) of programs to be registered and s	witched by external input.		
Power OFF settings	Allows the display to remain lit even when the power is turned for all functions except Override and Automatic Return Operat			

# [ Operation methods ]

# Product discontinuation Model H2F



Note: Only quartz motor models have a power indicator.

# ■ Time Setting

Insert the trippers into the scale graduation at the desired times.

 Insert gold trippers for times the load is to be turned ON and silver trippers for times the load is to be turned OFF.

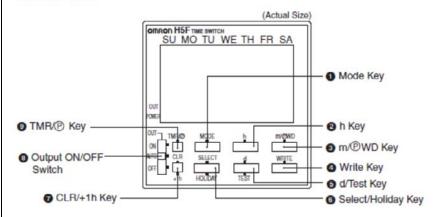
Note: 1. Be sure to insert the trippers all the way.

Set the trippers in alternating positions only after thoroughly checking the ON and OFF positions.

#### Recommended replacement Model H5F/H5S-W

#### H5F

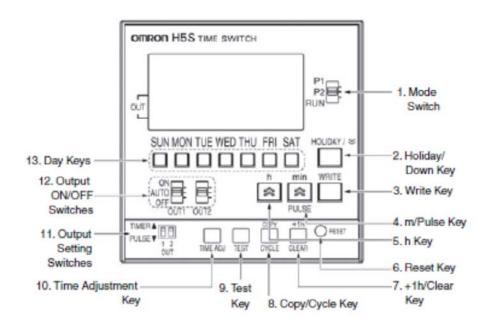
### Front Panel



No.	Name	Function		
0	Mode Key	Switches between time adjustment mode, the operation setting modes, and run mode.		
0	h (Hour) Key Sets hours or switches between 12-hour (am/pm) and 24-hour display.			
0	m/@WD (Minute/Pulse Time Width) Key	Sets minutes or a pulse time width.		
0	Write Key	Writes the set data to memory or confirms settings with the program check function.		
6	d/Test (Day Shift/Program Test) Key	Moves the cursor to specify a day or starts the program check function.		
6	Select/Holiday Key	Specifies or cancels a specified day or switches to holiday setting mode.		
0	CLR/+1h (Clear/Summer Time) Key	Erases the set data and initializes the day of operation or sets/clears summer time.		
0	Output ON/OFF switch	ON: Turns on the output regardless of the setting. AUTO: Turns on/off the output according to the setting. OFF: Turns off the output regardless of the setting. Override and automatic return operation can be executed by using this key in combination with the Write Key.		
0	TMR/  (Timer/Pulse output) Key	Selects timer operation or pulse-output operation.		

# Recommended replacement Model H5F/H5S-W

#### H5S-W



No.	Functions
1	P1: Circuit (output) 1 Setting mode P2: Circuit (output) 2 Setting mode RUN: RUN mode
2	In RUN mode, this key shifts the Time Switch to the Holiday Setting mode In Setting mode or Time Adjustment mode, this key decrements the value for the operation just completed.
3	Sets parameters.
4	Used to set the current time, ON/OFF time, or pulse width
5	Number function
6	Used to reset all parameters, including the current time.
7	In RUN mode, this key sets or cancels summer time (+1 h) In Setting mode, this key clears the parameter.
8	In RUN mode (weekly models only), this key shifts the Time Switch to the Day Override operation setting mode. In Setting mode, this key shifts the Time Switch to cyclic operation setting.
9	In RUN mode, this key shifts the Time Switch to the Program Check mode. In Setting mode (yearly models only), this key is used to set the yearly program.
10	This key shifts the Time Switch to the time adjustment mode
11	TIMER: Executes a timer or cyclic operation. PULSE: Executes a pulse-output operation.
12	ON: Turns ON the output regardless of the setting. AUTO: Executes automatic operation as specified by these settings. OFF: Turns OFF the output regardless of the setting.
13	<ul> <li>Used to set the current day, operating day, etc.</li> <li>In RUN mode, these keys are used to shift the Time Switch to the Checking the Settings mode.</li> </ul>

Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.