



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON H5F. You'll find the answers to all your questions on the OMRON H5F in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON H5F  
User guide OMRON H5F  
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**OMRON**

**Digital Daily Time Switch  
H5F**

**Daily Time Control with Simple Operations  
(Operation Day Selection Possible)**

- Up to 12 ON/OFF operations (24 for pulse-output operation).
- Special holidays can be handled easily with the holiday setting function.
- Adjustments for sudden schedule changes can be made easily using output override and automatic return operation.
- The operation program can be checked easily with the program check function.
- Enables pulse output operation and summer time setting.
- Incorporates finger-safe terminals.
- Conforms to UL, CSA, and CE marking.
- Meets a variety of mounting requirements: flush mounting, surface mounting, and DIN track mounting.



**Model Number Structure**

■ **Model Number Legend**

H5F-            

1. **Mounting method**  
None: Flush mounting  
F: Surface mounting  
K: Surface mounting/track mounting

2. **Language**  
B: English

**Ordering Information**

■ **List of Models**

Wiring	Mounting method	Model
Screw terminals	Flush mounting	H5F-B
	Surface mounting	H5F-FB
	Surface mounting/track mounting	H5F-KB

■ **Accessories (Order Separately)**

Name	Models	
Soft cover	YS2A-48F-1	
Hard cover	For H5F-B	YS2A-48
	For H5F-FB-KB	YS2A-48E (See note 1.)
Flush Mounting Adapter (See note 2.)	Y5F-30	
Mounting Track	50 cm (l) × 7.3 mm (t)	PPP-50N
	1 m (l) × 7.3 mm (t)	PPP-100N
	1 m (l) × 18 mm (t)	PPP-100N2
End Plate	PPP-M	
Spacer	PPP-S	

Note: 1. Supplied with H5F-KB model.  
2. Supplied with H5F-B (flush-mounting) model.

Digital Daily Time Switch **H5F** 1



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**Manual abstract:**

· Incorporates finger-safe terminals. · Conforms to UL, CSA, and CE marking. · Meets a variety of mounting requirements: flush mounting, surface mounting, and DIN track mounting. Model Number Structure Model Number Legend H5F-@B 12 1. Mounting method None: Flush mounting F: Surface mounting K: Surface mounting/track mounting 2. Language B: English Ordering Information List of Models Wiring Screw terminals Mounting method Flush mounting Surface mounting Surface mounting/track mounting H5F-B H5F-FB H5F-KB Model Accessories (Order Separately) Name Soft cover Hard cover Flush Mounting Adapter (See note 2.) Mounting Track 50 cm (l) 7.3 mm (t) 1 m (l) 7.3 mm (t) 1 m (l) 16 mm (t) End Plate Spacer Note: 1. Supplied with H5F-KB model.

2. Supplied with H5F-B (flush-mounting) model. For H5F-B For H5F-FB/KB Y92A-48F1 Y92A-48 Y92A-48E (See note 1.) Y92F-30 PFP-50N PFP-100N PFP-100N2 PFP-M PFP-S Models Digital Daily Time Switch H5F 1 Specifications Ratings Rated supply voltage Operating voltage range Power consumption Control outputs 100 to 240 VAC (50/60 Hz) 85% to 110% of rated supply voltage Approx. 2.

4 VA at 264 VAC Contact output: SPST-NO, 15 A at 250 VAC, resistive load, 10 A at 24 VDC, resistive load Minimum applied load: 100 mA at 5 VDC (failure level: P, reference value) NEMA A300 Pilot Duty, 1/3 HP at 120 VAC External connections Terminal screw tightening torque Screw terminals (M3.5 screw) 0.98 to 1.17 N · m Characteristics Accuracy of operating time Setting error Influence of voltage Influence of temperature Cyclic error Memory protection Insulation resistance Dielectric strength Monthly difference  $\pm 15$  s (at 25°C) Continuous use: 5 years min. (at 25°C); Power-interruption rate of 50%: 10 years min.

(at 25°C) (see note 2) (lithium battery) 100 MW min. (between current-carrying terminals and exposed non-current-carrying metal parts, between operating power supply circuit and control output circuit and between non-continuous contacts) 2,000 VAC, 50/60 Hz for 1 min (between current-carrying terminals and exposed non-current-carrying metal parts and between operating power supply circuit and control output circuit) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts) 1.5 kV (between power terminals) Square-wave noise by noise simulator (pulse width: 100 ns/1 ms, 1-ns rise) Destruction: 10 to 55 Hz with 0.375-mm single amplitude, four cycles each in three directions (8 minutes per cycle) Malfunction: 10 to 55 Hz with 0.25-mm single amplitude for 10 minutes each in three directions Destruction: 300 m/s<sup>2</sup> 3 times each in 6 directions Malfunction: 100 m/s<sup>2</sup> 3 times each in 6 directions Operating: 10°C to 55°C (with no icing) Storage: 25°C to 65°C (with no icing) Operating: 35% to 85% Mechanical (at 20°C): 100,000 operations min. Electrical (at 20°C): 50,000 operations min. (15 A, 250 VAC, resistive load) 50,000 operations min. (1 HP, 250 VAC, motor load) 50,000 operations min. (10 A, 250 VAC, inductive load (cos $\phi$  = 0.7)) 50,000 operations min.

(100 W, 100 VAC, lamp load) 10,000 operations min. (300 W, 100 VAC, lamp load) UL508/Listing, CSA C22.2 No. 14, conforms to EN61010-1 (Pollution degree 2/overvoltage category II) Conforms to VDE0106/P100 (finger protection). Conforms to Electrical Appliance and Material Safety Law (for Japan) (EMI) Emission Enclosure: Emission AC mains: (EMS) Immunity ESD: Immunity RF-interference: Immunity Conducted Disturbance: Immunity Burst: Immunity Surge: Immunity Voltage Dip/Interruption: Immunity Magnetic Power Field: Case color Weight Light gray (Munsell 5Y7/1) H5F-B: approx. 115 g; H5F-KB: approx. 160 g; H5F-FB: approx. 130 g EN61326 EN55011 Group 1 class A EN55011 Group 1 class A EN61326 EN61000-4-2: 4 kV contact discharge (level 2) 8 kV air discharge (level 3) EN61000-4-3: 10 V/m (Amplitude-modulated, 80 MHz to 1 GHz, 1.4 to 2 GHz) (level 3) EN61000-4-6: EN61000-4-4: 10 V (0.15 to 80 MHz) (according to EN61000-6-2) 2 kV power-line (level 3) 1 kV I/O signal-line (level 4) EN61000-4-5: 1 kV line to lines (power and output lines) (level 2); 2 kV line to ground (power and output lines) (level 3) EN61000-4-11: 0.

5 cycle, 100% (rated voltage) EN61000-4-8: 30 A/m  $\pm 0.01\%$   $\pm 0.05$  s max. (see note 1) Noise immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy Approved safety standards EMC Note: 1. The total error including the repeat accuracy, setting error, variation due to voltage change, and variation due to temperature change is  $\pm 0.01\%$   $\pm 0.05$  s max.  $\pm 0.01\%$  also indicates an error in the time interval of a set time. 2.

The total time when power is not being supplied. 2 Digital Daily Time Switch H5F Connections Terminal Arrangement Flush Mounting Models H5F-B (Rear View) Surface Mounting Models Surface Mounting/Track Mounting Models H5F-FB (Front View) H5F-KB (Front View) Power source 100 to 240 VAC H5F TIME SWITCH SU MO TU WE TH FR SA PM OUT POWER OUT ON AUTO OFF +1h ON PW TMR/P 3 00 PM 5 00 h d TEST H5F TIME SWITCH SU MO TU WE TH FR SA MODE SELECT HOLIDAY m/P WD WRITE OUT POWER OUT ON AUTO OFF +1h CLR PM ON PW TMR/P CLR 3 00 PM 5 00 h d TEST MODE SELECT HOLIDAY m/P WD WRITE Load Power supply of load Load Power source 100 to 240 VAC Power supply of load Load Power source 100 to 240 VAC Power supply of load Note: 1. 2. 3. 4. 5. The Time Switch uses M3.5 terminals. The Time Switch output is no-voltage contact output. An external power supply is required to drive the load.

Applicable wire: 600-V vinyl-insulated wire (solid wire or twisted wire, copper), 14 to 24 AWG, 2 wires max. per terminal. Applicable tightening torque: 0.98 to 1.17 N·m. Recommended fuse: T2A, 250 VAC, time delay, low breaking capacity. Operation Operation Operation method Time range Operation Digital quartz 24 h 7 days (Operation days can be specified.) 1. Daily operation (Multiple-day operation possible.) 2.

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.) 3. Partial operation on specified day (One or some of the operations for certain days can also be executed on other days.) 4. Forced ON/OFF operation 5.

Holiday operation 6. Output override and automatic return operation 1. 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) 2. Digital display by LCD. Character height: 8 mm 3. Digital display of present time and time schedules for operation 4. Timing chart display of present time and time schedules for operation Program check function, summer time function 1 independent circuit 1 min 1 min 24 (see note) Display Other functions Number of circuits Minimum setting unit Minimum set interval Number of operations that can be set Note: Up to 12 ON/OFF operations are possible per day.



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(For pulse-output operation, the number is 24.) Digital Daily Time Switch H5F 3 Operation Functions Timer operation (ON/OFF operation) Controls the output according to preset of ON and OFF times · Minimum setting unit: 1 min · Up to 12 ON/OFF operations are possible per day. ON time OFF time Pulse-output operation Pulse width ON time Output turns ON for a fixed period (pulse width) at the set time. · Pulse width: 1 to 59 s, or 1 to 60 min.

(The same pulse width setting is used for all types of output operation.) · The pulse width can be set in units of 1 s or 1 min. · Up to 24 pulse-output operations are possible per day. Forcibly turns ON/OFF the output by the output ON/OFF switch. Using the output ON/OFF switch and the Write Key, control output is held in the ON state until the next OFF time. · It is also possible to hold the control output in the OFF state until the next ON time. · Operation after the output turns OFF (or ON) will be based on the regular program. · This function can be used with pulse-output operation. The Time Switch operates according to only some of the programs on a user-specified day. (Convenient, for example, for executing a half-day operation on Saturday.

) · It is not possible to set operation to be executed only on the specified day. · This function can be used with pulse-output operation. Forced ON/OFF operation Override and automatic return operation Regular program Output operation Start of override and automatic return operation Partial operation on specified day Program 1 Program 2 (special) Regular program Operation on operation day Operation on specified day Holiday setting Operation on Operation operation day on holiday Regular program Operation in present week Operation from next week It is possible to set a day in the present week as a holiday (i.e., a non-operation day: output OFF regardless of the settings).

When that day has passed, operation will continue according to the regular program, and operation will be executed as normal on that day from the following week · This function can be used with pulse-output operation. Note: Both the timer operation and the pulse-output operation cannot be programmed together.

Operation When Power Turns OFF 1. The time and settings are backed up using a lithium battery. 2.

The display stays ON but the output turns OFF. 3. Settings for all types of operation except override and automatic return operation are possible. 4 Digital Daily Time Switch H5F Nomenclature Front Panel (Actual Size) SU MO TU WE TH FR SA H5F TIME SWITCH A Mode Key OUT I TMR/ P Key H Output ON/OFF Switch G CLR/+1h Key No. A B C D E F G H Mode Key h (Hour) Key POWER OUT ON AUTO OFF +1h HOLIDAY TEST CLR SELECT d WRITE TMR/ P MODE h m/ P WD B h Key C m/ P WD Key D Write Key E d/Test Key F Select/Holiday Key Name Function Switches between time adjustment mode, the operation setting modes, and run mode. Sets hours or switches between 12-hour (am/pm) and 24-hour display. Sets minutes or a pulse time width. Writes the set data to memory or confirms settings with the program check function. Moves the cursor to specify a day or starts the program check function. Specifies or cancels a specified day or switches to holiday setting mode.

Erases the set data and initializes the day of operation or sets/clears summer time. 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. Selects timer operation or pulse-output operation. m/ P WD (Minute/Pulse Time Width) Key Write Key d/Test (Day Shift/Program Test) Key Select/Holiday Key CLR/+1h (Clear/Summer Time) Key Output ON/OFF switch I TMR/ P (Timer/Pulse output) Key Display Time Adjustment Mode Indicator SU MO TU WE TH FR SA Displays the Present Time, Operation Time, and Time Width Output Indicator Lit when control output is ON. Power Indicator Lit when power is supplied to the Time Switch. Pulse Operation Indicator Lit: Pulse-output operation Not lit: Timer operation Present

Day Indicator Operation Day Indicator Lit: Operation day Not lit: Non-operation day Flashing: Specified operation day S AM PM ON PW P Partial Operation on Specified Day Indicator Pulse Width Unit Indicator Summer Time Indicator Lit when set to summer time. s m +1h AM PM P Operation Setting Mode Indicator Next Operation Indicators Run mode: Displays the direction (i.

e., ON or OFF) and time of the next output operation. Operation time setting mode: Displays the program number for the setting. Holiday setting mode:

Displays hday (hday) when the Time Switch is in holiday setting mode. Program check: Displays test (test) during program check.

Digital Daily Time Switch H5F 5 Dimensions Note: All units are in millimeters unless otherwise indicated. H5F-B (provided with Y92F-30 Flush Mounting Adapter) (Flush Mounting) 48 Y92A-48 Hard Cover (sold separately) 63.7 6 14 Terminal cover (provided) Panel Cutout Dimensions (according to DIN43700) H5F SU MO TU WE TIME SWITC h in locations where condensation may occur due to high humidity or where temperature changes are severe. ·

Do not leave the Time Switch for long periods (i.e.

, one month or longer) at a high temperature with output current in the ON state. Doing so may result in the premature deterioration of internal components (e.g., electrolytic capacitors). · Separate the Time Switch from any potential sources of noise, such as high-voltage lines. When using inductive loads (e.g., electromagnetic relays), connect noise-absorbing elements (resistor and capacitor) to both ends of the coil. · Separate the Time Switch from the source of static electricity when using the Time Switch in an environment where a large amount of static electricity is produced (e.g.

, forming compounds, powders, or fluid materials being transported by pipe). · Use the Time Switch within the ratings specified for temperature and humidity.

· Do not use the Time Switch in environments subject to shocks or vibration beyond the ranges specified in this document. · Do not use the Time Switch in locations subject to dust, corrosive gases, or direct sunlight. · Store at the specified temperature. If the H5F has been stored at a temperature of less than -10°C, allow the H5F to stand at room temperature for at least 3 hours before use. · This Time Switch is not waterproof or oil-proof. Do not use it in locations where water or oil may enter the Time Switch interior. · Organic solvents (such as paint thinner), as well as very acidic or basic solutions might damage the outer casing of the H5F. Circuit H5F Load Crossover Using the Time Switch beyond its life expectancy may result in contact deposition or burning.



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Do not disassemble the Time Switch, deform the Time Switch by applying pressure, heat the Time Switch to temperatures above 100°C, or incinerate the Time Switch. Doing any of these may cause the built-in lithium battery to ignite or rupture. Installation · Mounting the Time Switches side-by-side may reduce the life expectancies of internal components. · When using heaters, be sure to use a thermal switch for the load circuit. · When driving an inductive load (e.g., coil), a surge voltage is generated when the contacts (i.e., Time Switch output) are switched, and in some cases this may damage other devices connected to the Time Switch or the same line. Absorb the surge with a capacitor and resistor as shown in the following diagram.

Time Switch output Wiring · Be sure to wire the terminals correctly. · Do not connect more than two crimp terminals to each Time Switch terminal. Faulty contact may result in burn injury or fire. · Perform wiring using appropriate wires of the type specified in this document. Using a different type of wire may result in burn injury or fire due to abnormal heat generation. C Power supply R Inductive load Power Supplies · Make sure that the fluctuation of the supply voltage is within the permissible range. · Make sure that the voltage applied is within the specified range, otherwise the internal elements of the Time Switch may be damaged. · Apply the power supply voltage through a breaker, relay or switch in such a way that the voltage reaches a fixed value immediately, otherwise they may not be reset or a Time Switch error may result. · When the power is turned ON, an inrush current will flow for a short time (approx. 2 A for 0.

3 ms at 264 VAC). Depending on the power supply capacity, operation may not start. Be sure to use a power supply with a sufficient capacity and a breaker. As a rough guide, the capacitor (C) and resistor (R) should have the following specifications: C: 0.5 to 1 mF for a switching current of 1 A R: 0.5 to 1 W for a switching voltage of 1 V Use a capacitor with a dielectric strength appropriate for the power supply voltage. Use an AC-type capacitor with AC circuits.

There may be cases where, due to inconsistencies in the nature and characteristics of the load, delays in restoring the load may cause problems. Be sure to confirm that correct operation is possible under the actual operating conditions. 8 Digital Daily Time Switch H5F Precautions for EN61010-1 Conformance The H5F Time Switch conforms to EN61010-1 provided that the following conditions are satisfied: Basic insulation is provided between the power supply and output terminals of the H5F.

· Output terminals are connected to devices without exposed charged parts. · Output terminals are connected to devices with basic insulation that is suitable for the maximum operating voltage. Others None of the Time Switch components are user-replaceable, including the battery. Digital Daily Time Switch H5F 9 Operating Method Operating Method Selecting the Mode All of the modes can be selected using Keys. MODE 3.

Press the WRITE Key. The colon will flash and the clock will start (from 0 s). SU MO TU WE TH FR SA AM 4 00 4 00 AM , HOLIDAY , and TEST PW · The days and times when output will actually turn ON/OFF are displayed chronologically. Program check function · Set a special day when the Time Switch will not operate temporarily 4. Press the MODE Key 3 times to return to the run mode.

SU MO TU WE TH FR SA AM PW 8 30 Holiday Setting Mode Factory Setting At the time of delivery, the mode is run mode and there is no current time setting. Before making any other settings, press the MODE Key for 1 s min. to enter time adjustment mode and set the current time using the above procedure.

Display of factory setting test TEST (See note 1.) hday (2 s min.) HOLIDAY HOLIDAY TEST (2 s min.) SU MO TU WE TH FR SA Run Mode (See note 2.) · Control output operates according to the settings. (1 s min.) -- --- -- MODE Time Adjustment Mode MODE · Set the present day and time.

Note: 1. The set time is enabled when the WRITE Key is pressed. 2. @@@@Also, set the pulse width for pulse-output operation. @@@@2. At the time of delivery, the mode is the run mode. 1. Enter operation time setting mode using the MODE Key. @@Press the MODE Key for 1 s min. to enter time adjustment mode.

The symbol flashes. The color indicates flashing 1 P 2. @@Move the using the and m/ P WD d symbol to Monday Key. Change the h SU MO TU WE TH FR SA 3. Press the WRITE Key.

@@@@Press the WRITE Key. (Repeat steps 2 to 5 to make other settings if necessary.) 3. @@@@@@@@@@Move the symbol to Saturday (or d Sunday) using the Key. @@@@Press the MODE Key.

@@@@Press the WRITE Key. @@Up to 12 sets of ON-OFF settings are possible. 2. Be sure to set both ON and OFF times. If only the ON time is set, the setting will be invalid. 3. At the time of delivery, all days are set as operation days. 4. Multiple-day operation is possible. 5.

@@(Refer to page 16.) 6. @@@@@Move the symbol to Saturday (or d Sunday) using the Key. @@Press the MODE Key. @@Enter operation time setting mode using the MODE Key. The P symbol flashes. SU MO TU WE TH FR SA -- -PW Note: 1. Up to 24 sets of settings are possible. 2. @@3.

Both the timer operation and pulse-output operation cannot be programmed together. 1 P 2. Press the TMR/ P Key to set the Time Switch for pulse-output operation. The P symbol flashes. (The Time Switch is set for timer operation at the time of delivery.

) SU MO TU WE TH FR SA P -P PW Digital Daily Time Switch H5F 11 Setting Partial Operation on Specified Day The Time Switch can be set to operate according to only some of the settings on a user-specified day. Example: Monday to Friday: Saturday: Non-operation Operation ON at 8:30 am; OFF at 0:30 pm ON at 1:15 pm; OFF at 5:15 pm ON at 8:30 am; OFF at 0:30 pm Operation Operation Operation Specified day 8. Move the symbol to Saturday d using the Key. Make the operation day indicator flash by pressing the WRITE Key. Move the present day indicator to Sunday d using the Key.

Clear the operation day indicator by pressing the WRITE Key. SU MO TU WE TH FR SA PW P WRITE Operation Lit: Operation day Not lit: Non-operation day Flashing: Specified operation day WRITE Sunday Monday Tuesday Wednesday Thursday Friday Saturday WRITE 8:30 am to 0:30 pm (Specified Day Operation) 1:15 pm to 5:15 pm 1. Enter operation time setting mode using the MODE Key. The color indicates flashing SU MO TU WE TH FR SA 9. Press the MODE Key. The Time Switch will enter run mode and operation based on the settings will start. The operation day indicator ( ) of the specified day will flash. SU MO TU WE TH FR SA AM ON PW 10 30 PM 0 30 -- -PW 1 P 2.



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Press the SELECT Key. The S symbol will be displayed.

Set the ON time for the specified day to h 8:30 am using the and m/P WD Note: 1. Partial operation on specified day can be set for two or more programs.

For each program, however, the S must be displayed by pressing the SELECT Key. 2. Two or more days can be specified as specified days. 3. Partial operation on specified day can also be set for pulseoutput operation. SU MO TU WE TH FR SA Keys. AM 8 30 1 S Changing Timer Operation Settings

Example: Changing the ON time for program 1 from 8:30 am to 7:45 am The color indicates flashing PW P 3. Press the WRITE Key.

SU MO TU WE TH FR SA -- -PW S 1. Enter operation time setting mode using the MODE Key. The ON time for program 1 will be displayed. SU MO TU WE TH FR SA AM ON PW 8 30 1 P 1 P 2. Change the ON time to 7:45 am 4.

Set the OFF time for the specified h day to 0:30 pm using the and m/P WD SU MO TU WE TH FR SA SU MO TU WE TH FR SA using the h and m/P WD Keys. AM ON PW Keys. PM PW 0 30 1 S 7 45 1 P P The color indicates flashing 5. Press the WRITE Key. Set the time to 1:15 pm using the h SU MO TU WE TH FR SA 3.

Press the WRITE Key. The OFF time for program 1 will be displayed. (Make changes, if necessary, using the same procedure as for ON time.) SU MO TU WE TH FR SA PM ON PW 6 30 1 P and m/P WD Keys. PM PW 1 15 2 P 6. Press the WRITE Key. Set the time to 5:15 pm using the h SU MO TU WE TH FR SA and m/P WD Keys. PM PW 5 15 2 P 4. Press the MODE Key to enter operation date setting mode. The operation dates will be displayed.

(Make changes, if necessary, using the d and WRITE Keys.) SU MO TU WE TH FR SA ON PW P 7. Press the WRITE Key. SU MO TU WE TH FR SA Press the MODE Key to enter operation date setting mode. PW 5. Press the MODE Key. The Time Switch will enter run mode and operation will start. SU MO TU WE TH FR SA AM ON PW 10 30 PM 6 30 P Note: Operation based on the changed settings will start as soon as the Time Switch returns to run mode. 12 Digital Daily Time Switch H5F Changing Pulse-output Operation Settings Example: Changing the pulse width from 30 s to 20 s 1. Enter operation time setting mode using MODE Key.

The pulse width is displayed. The color indicates flashing Clearing the ON/OFF Settings for Individual Programs Example: Clearing the settings for program 2 1. Enter operation time setting mode using MODE Key. The ON time for program 1 will be displayed. The color indicates flashing SU MO TU WE TH FR SA SU MO TU WE TH FR SA P 30 20 7 40 1 AM s ON PW 8 30 1 S P PW P 2.

Change the pulse width to 20 s using m/P WD SU MO TU WE TH FR SA Key. s 2. Press the WRITE Key twice. The ON time for program 2 will be displayed. SU MO TU WE TH FR SA PM P PW P ON PW 1 15 2 P 3.

Press the WRITE Key. The ON time for program 1 will be displayed. (Make changes, if necessary, using the Key.) h SU MO TU WE TH FR SA , m/P WD and WRITE AM P PW P 3. Press the CLR Key. (Both the ON and OFF settings are cleared with just one operation. If this operation is performed while output is ON, output stays ON until the Time Switch returns to run mode.) SU MO TU WE TH FR SA ON PW -- -2 P 4. Press the MODE Key to enter operation date setting mode. The operation dates will be displayed.

(Make changes, if necessary, using the d and WRITE Keys.) SU MO TU WE TH FR SA P PW P 4. Press the MODE Key twice. The Time Switch will enter run mode and operation based on the new settings (i.e. without the cleared programs) will start. SU MO TU WE TH FR SA AM ON PW 10 30 PM 0 30 5. Press the MODE Key. The Time Switch will enter run mode and operation will start. SU MO TU WE TH FR SA AM P 7 30 AM Note: Settings for pulse-output operation can be cleared for individual programs in the same way.

PW 7 40 Clearing all Settings 1. Enter operation time setting mode or operation date setting mode using the MODE Key. The color indicates flashing Note: Operation based on the changed settings will start as soon as the Time Switch returns to run mode. SU MO TU WE TH FR SA AM ON PW 8 30 1 S P 2. Press the CLR Key for 3 s min.

The clearing process will be completed 3 s has elapsed. Output will turn OFF immediately. SU MO TU WE TH FR SA ON PW c lr -- -- 3. When all the settings have been cleared, the operation time, operation day, pulse width, holiday, partial operation on specified day, and override and automatic return operation settings will be returned to their factory settings. SU MO TU WE TH FR SA PW 1 CLR P Note: The clearing process will be canceled if the display program will be cleared.

Key is re- leased while clr is still flashing and only the settings for the Digital Daily Time Switch H5F 13 Holiday Setting Function The following example shows how to stop operation for a certain day in the present week and restore normal operation from the following week using the holiday setting function. Switching between 12-hour (am/pm) and 24-hour Display h Each time the Key is pressed for 2 s min. in run mode, the time display switches between 12-hour (am/pm) and 24-hour display. Example: Stopping operation for Friday and Saturday in the current week and resuming normal operation from the following week 1. Press the HOLIDAY Key for 2 s min. in run mode to enter holiday setting mode. hday will flash and the operation day indicator ( ) will light under the days set for operation day. 2. Move the symbol to Friday using d Key. Clear the operation day indicator ( ) by pressing the WRITE Key.

Repeat the procedure for Saturday. (Press the WRITE Key again to clear the holiday setting.) 3. Press the HOLIDAY Key. The Time Switch will enter run mode and the operation day indicator under the days set as holidays will turn OFF. (When a day set as a holiday has passed, the ( ) indicator under that day will automatically turn ON again.) The color indicates flashing 12-hour (am/pm) Display SU MO TU WE TH FR SA 24-hour Display The color indicates flashing SU MO TU WE TH FR SA SU MO TU WE TH FR SA PM ON PW ON PW 3 30 PM h (2 s min.) ON PW 5 15 15 30 17 15 hd ay Note: 1. Switching is possible only in run mode. 2.

The factory setting is 12-hour (am/pm) display. SU MO TU WE TH FR SA Override and Automatic Return Operation ON PW hd ay SU MO TU WE TH FR SA AM ON PW 10 30 PM Override and automatic return operation can be used to handle sudden schedule changes without making changes to the program. The output status can be set to ON or OFF directly using the output ON/OFF switch. This output status is then held until the next ON/OFF operation time. 5 15 Example 1: Starting operation earlier than the scheduled time on the present day only Regular setting: ON at 8:30 am; OFF at 5:15 pm Note: 1.



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Any day in the 7-day period starting from the present day can be set as a holiday. 2. Operation based on the new settings (i.e., including the holiday setting) will start as soon as the Time Switch returns to run mode.

3. Holiday setting mode can be entered from run mode only. 4. If the present day setting in time adjustment mode is changed, all holiday settings will be cleared. 5. If a day set as a holiday is changed in operation date setting mode, the holiday setting for that day will be cleared. Use the following procedure to start operation at 7:00 am for the present day only. Present day Regular program Override and automatic return operation ON Next day 7:00 am 8:30 am 5:15 pm 8:30 am 5:15 pm 7:00 am 5:15 pm 8:30 am 5:15 pm Output Summer Time (DST) Function The summer time function allows the Time Switch to be used in regions that observe daylight saving time during the summer. Each time the +1h Key is pressed in run mode, the present time will switch between the (standard) present time and the present time + 1 hour (summer time). The color indicates flashing From the next day, output operates according to the regular program.

1. Change the setting of the output ON/OFF switch from AUTO to ON. 2. Return the setting of the output ON/OFF switch from Switch ON to AUTO while holding down the WRITE Key. ON The ON state will be held from the point at which this AUTO operation is performed (indicated by the arrow) until OFF the next (regular) OFF time. SU MO TU WE TH FR SA SU MO TU WE TH FR SA Example 2: Stopping operation earlier than the scheduled time on the present day only Regular setting: ON at 8:30 am; OFF at 5:15 pm PM ON PW 3 30 PM +1h PM ON PW 5 15 4 30 PM 5 15 +1h Use the following procedure to stop operation at 3:00 pm for the present day only. Present day Regular program Override and automatic return operation ON Note: 1. The summer time indicator (+1h) is displayed while summer time is set. 2. The contents of the programs are not changed.

3. @@Change the setting of the output ON/OFF switch from AUTO to OFF. 2. @@@@Note: 1. This operation is possible in run mode only. 2. @@For example, if the output is ON, override and automatic return operation can be cleared by setting the output ON/OFF switch to OFF. 3. Override and automatic return operation cannot be set or cleared if power is not being supplied to the Time Switch. 4. Override and automatic return operation is cleared if any of the settings are changed. Example 3: Override and automatic return operation starting from a forced OFF while output is ON (pulse width: 30 min) Regular program Output From the next time onwards, output operates according to the regular program. Point at which the Output ON/OFF Key changes from AUTO to OFF. Point at which the Output ON/OFF Key changes from OFF to AUTO with the WRITE Key held down. Program Check Function The days and times at which output turns ON or OFF over the course of one week can be displayed continuously in the actual order in which they will occur. 1. Press the TEST Key for 2 s min. in run mode to start the program check. The display will flash test and the day and time of the next change in output status will be displayed. The color indicates flashing items.

Using Override and Automatic Return Operation for Pulse-output Operation Override and automatic return operation proceeds in the following way when used for pulse-output operation. · If override and automatic return operation starts with a forced ON, output is turned ON for the time corresponding to the set pulse width. · If override and automatic return operation starts from a forced OFF, output remains OFF until the pulse output ends. The operation method is the same as for timer operation. SU MO TU WE TH FR SA PM PW 1 15 to st Example 1: Override and automatic return operation starting with a forced ON while output is ON (pulse width: 30 min) Regular program Output From the next time onwards, output operates according to the regular program. Point at which the Output ON/OFF Key changes from AUTO to ON. Point at which the Output ON/OFF Key changes from ON to AUTO with the WRITE Key held down. 30 min In the above example, output will turn ON at 1:15 pm on Monday. 2. Press the WRITE Key.

The display will change to the day and time of the next change in output status. (Continue pressing the WRITE Key to display the days and times for one week.) SU MO TU WE TH FR SA PM PW 5 30 to st In the above example, output will turn OFF at 5:30 pm on Monday. 3. If the WRITE Key is pressed with the last setting for the week displayed, end is displayed for 2 s and then the Time Switch automatically returns to run mode. SU MO TU WE TH FR SA e nd PW Example 2: Override and automatic return operation starting with a forced ON while output is OFF (pulse width: 30 min) Regular program Output 30 min Note: 1. The program check can be started from run mode only. 2. Press the TEST Key again to return to run mode before reaching the end of the program check function display sequence. 3.

The ON and OFF symbols (/) displayed during program check have no effect on the present operation. 4. Only ON times are displayed for pulse-output operation. From the next time onwards, output operates according to the regular program. Point at which the Output ON/OFF Key changes from AUTO to ON. Point at which the Output ON/OFF Key changes from ON to AUTO with the WRITE Key held down. Digital Daily Time Switch H5F 15 Setting Examples As shown in the following examples, continuous operation for more than 24 hours is possible by combining two or more settings. Refer to Setting Precautions for more details. Example 3: Use the settings given below to turn ON output from 8:00 pm to 7:00 am from Monday to Thursday and from 8:00 pm on Friday right through to 7:00 am on Monday. SU 6:00 am 9:00 am Example 1: Use the settings given below to turn ON output from 8:30 am on Monday right through to 0:30 pm on Saturday.

SU MO 1:00 pm TU 0:30 pm WE TH FR SA MO TU WE TH FR SA 7:00 am 8:00 pm 7:00 am 8:00 pm Operation time settings: 8:00 pm to 7:00 am (specified day operation) 6:00 am to 9:00 pm Operation day settings: Specified day ( Operation day ( ): Monday, Tuesday, Wednesday, Thursday, Friday ): Saturday, Sunday 8:30 am 2:00 pm 0:30 pm Operation time settings: 1:00 pm to 0:30 pm 8:30 am to 2:00 pm Operation day settings: Operation day ( ): Monday, Tuesday, Wednesday, Thursday, Friday Setting Precautions 1. If settings overlap, the earliest ON time and the latest OFF time will be used. Program 1 + Program 2 Example 2: Use the settings given below to turn ON output from 1:00 pm on Monday right through to 8:00 am on Saturday. SU MO TU 7:00 am 2:00 pm WE TH FR SA Output · Output will stay ON continuously without interruption. 1:00 pm 8:00 am 8:00 am · If an ON and OFF setting are made for the same time, the output status will not change at that time.



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2. If there is a switch between timer operation and pulse-output operation, the operation time, operation day, and pulse width settings will all be cleared.  
Operation time settings: 1:00 pm to 8:00 am (specified day operation) 7:00 am to 2:00 pm Operation day settings: Specified day ( ): Monday Operation day ( ): Tuesday, Wednesday, Thursday, Friday ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. Cat. No. L015-E1-04 In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company Industrial Control Components Division Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 Japan  
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