





backlit display

110 3090 - Daily-yearly - 1 channel 110 3091 - Weekly-yearly - 1 channel 110 3291 - Weekly-yearly - 2 channels Menu driven time switch - 2 DIN

110 5091S - Weekly-yearly - 1 channel 110 5291S - Weekly-yearly - 2 channels Menu driven time switch with programming key - synchronizable with DCF and/or GPS time signal - 2 DIN

- Power supply 230V c.a. ±10% 50 60Hz
- Contact output: limited current NO contact ZERO CROSSING 16 (10) A / 250V a.c.
- Max programs: 64 (matchable in blocks of days)
- ON-OFF minimum connection time: 1 second
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3000W Fluorescent tube LPs, not compensated 1100W Parallely comp. fluorescent tube LPs 900W (tot capacity 125 μF) Compact, fluorescent LPs 7 W ÷ 23 W (max. 23 lamp.)
- Compact, fluorescent LPs 7 W ÷ 23 W (max. 23 lamp.) LED 25 x 4 W / 12 x 8 W / 8 x 15 W
- Max cross-section of wires to terminals: 1 ... 6 mm²
- Protection degree: IP20 IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II

ACCESSORIES

1PR EMD01 "EMD" programming key

External memory to upload / download programs

1PR AUSB01 USB adapter for "EMD" key

USB adapter to connect the "EMD" programming key to the PC and upload programs

110 SW001 Programming software for PC

It allows the programming on your computer. The created programs can be saved, sent via e-mail, printed or transferred to the time switch via the "EMD" programming key.

1PA RXDCF77 Time signal receiver from Frankfurt for synchronized time switches

- Power supply 230V a.c. 50/60Hz
 - Wall-mounted or pole installation
 - BUS output signal
 - Protection degree IP 65
- Wiring with shielded cable diameter 7-11mm
- Ly.

1PA RXGPS01 Satellite GPS time signal receiver for synchronized time switches

- Power supply 230V a.c. 50/60Hz
- Wall-mounted or pole installation
- BUS output signal

- Protection degree IP 65
- Wiring with shielded cable diameter 7-11mm

Pin 1 VDD (power supply) Pin 2 relay output 1 Pin 3 relay output 2 Pin 4 GND earth

110 1080/M - Daily - 1 channel 110 1280/M - Daily - 2 channels 110 1081/M - Weekly - 1 channel 110 1281/M - Weekly - 2 channels

Digital time switch module with automatic daylight saving time change

Time tolerance: ± 0,5 sec/day
Operating temperature limits: 0°C +50°C
Storing temperature: -10°C +65°C

• Charge reserve: 6 years

Type of reserve: LITHIUM battery

- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic grey RAL 7035

• ON / OFF relay signal: ON/OFF in LCD display

- Type of use: civil / tertiary / industrial
- Controls: multifunction keys (menu programming) confirmation key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Programming: menu driven programs protected in EEPROM
- Dimensions (L x W x H) $35 \times 60 \times 90 \text{ mm}$

Anti-UV opaline housing

• Wiring with cables up to 2.5 mm²

• Wiring with cables up to 2.5 mm²

• Can be connected to max no. 10 time switches

• Can be connected to max no. 10 time switches

• Dimensions (L x W x H) 72 x 37.5 x 147 mm

• LED intervention signalling

• Anti-UV opaline housig

LED intervention signalling

• Dimensions (L x W x H) 72 x 37.5 x 147 mm



backlit display

110 7080 - Daily with automatic daylight saving time change - 1 channel 110 7081 - Weekly with automatic daylight saving time change - 1 channel 110 7281 - Weekly with automatic daylight saving time change - 2 channels **Digital time switch - 2 DIN**

1 potential-free changeover contact

110 6080 - Daily without daylight automatic saving time change - 1 channel 110 6081 - Weekly without daylight automatic saving time change - 1 channel Digital time switch - 2 DIN

- 1 potential-free changeover contact
- Power supply 230V c.a. ±20% 50 60Hz
 Contact output: 16 (2) A / 250V a.c.
- Max programs: 20 (matchable in blocks of days)
- ON-OFF minimum connection time: 1 second
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3500W Fluorescent tube LPs, not compensated 2300W Parallely comp. fluorescent tube LPs 700W (tot capacity 35 µF)
- Compact, fluorescent LPs 290W (7 x 15W) LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 1 ... 6 mm²
- Protection degree: IP20 IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II

110 4091 - 1 channel 110 4291 - 2 channels Astronomical twilight time switch - 2 DIN

- Power supply 230Vc.a.+/-10%, 50Hz
- Contact output: limited current NO contact ZERO CROSSING 16 (2) A / 250V a.c. • Max programs: 45 ON-OFF
- ON-OFF minimum connection time: 1 minute
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3000W Fluorescent tube LPs, not compensated 1100W Parallely comp. fluorescent tube LPs 900W (tot capacity 125 µF) Compact, fluorescent LPs 7 W ÷ 23 W (max. 23 lamp.)

Max cross-section of wires to terminals: 1 ... 6 mm²

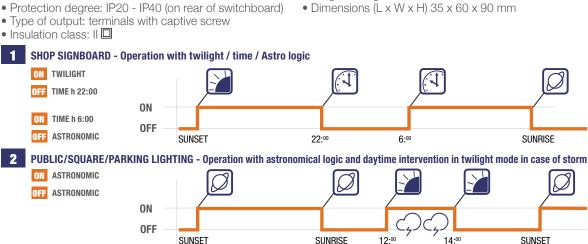
LED max n° 25 x 4 W / 12 x 8 W / 8 x 15 W

backlit display

0.16 1020

I LOT





ACCESSORIES

1PR EMD01 "EMD" programming key External memory to upload / download programs

1PR 6092 Outdoor cadmium-free probe

The probe is not included in the packing. it must be purchased separately.

- Installation outdoors on wall and/or pole
- Connection with cables measuring between 0.75 and 2.5 mm²
- Cabling with 4-8 mm shielded cable

- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: multifunction keys (menu programming) confirmation key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: for 4 geographic areas
- Programming: for hours, minutes and seconds
- Dimensions (L x W x H) 35 x 60 x 90 mm

UNIQUE ON THE MARKET Astro-Lux-Time in one product!

- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 6 years
- Type of reserve: CR2032 replaceable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: -20°C +55°C
- Storing temperature: -30°C +60°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: manual function key ON/OFF
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: euro / free / none
- Programming: for hours and minutes

• UV-resistant opal housing

• Dimensions of sensor (L x W x H) 28 x 48 x 56 mm

• Protection degree IP 65

• Dimensions (L x W x H) 35 x 60 x 90 mm



DIGITAL TIME SWITCHES



110 1070 - Daily 110 1071 - Weekly Digital time switch with automatic standard time / daylight saving time change - 1 DIN

- Power supply 230V c.a. 50 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (110 1070) 672 (110 1071)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: 1/4" LCD display
- Maximum lighting load: 3500VA (each contact) Incandescent LPs 2300W Fluorescent tube LPs, not compensated 1000W Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF)
- Compact, fluorescent LPs 105W (7 x 15W)
- LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 1 ... 2.5 mm²
- Protection degree: IP20 IP40 (on rear of switchboard)
- Type of output: terminals with captive screw



110 0022/D15 - Daily 110 0024/D15 - Weekly Digital time switch with tappets and display - 2 DIN

- Power supply 230V c.a. 50 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (110 1070) 672 (110 1071)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: 1" LCD circular display • Maximum lighting load: 3500VA (each contact) Incandescent LPs 2300W Fluorescent tube LPs, not compensated 1000W Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF) Compact, fluorescent LPs 105W (7 x 15W) LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 2.5 mm²
- Protection degree: IP20 IP30 (with terminal covers) IP40 (on rear of switchboard)
- Type of output: terminals with captive screw

- Insulation class: II
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Dimensions (L x W x H) 17.5 x 60 x 90 mm
- \bullet Insulation class: II \Box
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: 0°C +55°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / wall-mounted / on rear of switchboard
- Housing: thermoplastic grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Dimensions (L x W x H) 35 x 60 x 128 mm

Note: Art. 0022/D15 - 0024/D15 can be installed in rear of switchboard with accessory 1PA KTMP/2 (option)



110 0012D15 - Daily - 72x72 110 0016D15 - Weekly - 72x72 110 0012D15/M230 - Daily - 60x60 Module 110 0012D15/M230 - Weekly - 60x60 Module Digital time switch with tappets and display

- Power supply 230V c.a. 50 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (daily) 672 (weekly)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: LCD circular display
- Maximum lighting load: 3500VA (each contact) Incandescent LPs 2300W Fluorescent tube LPs, not compensated 1000W Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF)
- Compact, fluorescent LPs 105W (7 x 15W) LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 2.5 mm²
- Protection degree: IP40 (wall-mounted, on rear of switchboard)
- Type of output: terminals with captive screw

- Insulation class: II 🗖
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: wall-mounted / on rear of switchboard / recess mounting
- Housing: thermoplastic grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key, reset key
- Clock setting accuracy: digital for hours/minutes
- Dimensions (L x W x H) 72 x 67.5 x 101 mm (72x72) 60 x 26 x 60 mm (60x60)

Note: Art. 0012D15 - 0016D15 can be installed on rear of switchboard with accessory 1PA SG001 (option)