

NEW



Accessory

172 4X2 pro

Accessory: Data-key Save 'n carry pro
(Not included in delivery of the time switch)

- Data-key for managing the programming data:
 - Data back-up of the time switch
 - Programming the time switch with the key program
 - Time switch executes only the key program
 - Query of the key program
- Data-key Save 'n carry pro
Order-No.: DK pro
- PC Programming Package
Save 'n carry PP 50 pro
Order No.: PP 50 pro

Highlights

- Text based Menu and self-explanatory symbols
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling. Quick and intuitive programmable time switch
- Can be programmed with supply disconnected (6 years battery-reserve)
- Unlimited program security by E²-PROM
- Data-key Save 'n carry pro – programmable with PC Programming package Save 'n carry PP 50 pro (optional – not included in delivery content)

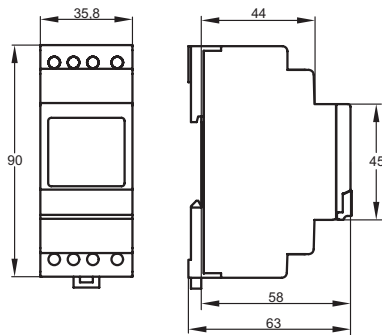
Overview time switch functions

| | Switching time | Front-key/ Channel-key External input |
|-------------------|----------------|---|
| ON/OFF | ✓ | ✓ |
| Permanent | ✓ | ✓ |
| Pulse | ✓ | |
| Timer | | ✓ |
| Cycle | ✓ | ✓ |
| Astro | | |
| Permanent by date | ✓ | |
| Yearly program | | |

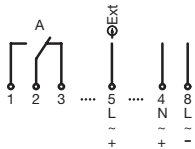
- 1 or 2 channels
- Daily and weekly program
- 100 memory locations
- Minimum interval 1 min
- Switching capacity 16 A per channel
- Permanent by date-mode (holiday function)
- Permanently ON or OFF with manual switch (Perm ON/OFF)
- Manual override
- Automatic sorting of switching times on readout
- Unrestricted block programming of days
- Fully automatic daylight saving time (European, North American or Australian standard adjustable)
- Elapsed time and pulse counter for each channel and elapsed counter for the device
- Pulse function: Automated switch OFF (pulse length 00:01 up to 59:59 mm:ss). For use with for switching times
- Cycle function / Recycler function: Selection of 4 different cycles for each programming step. (Pulse/Pause length 0:00:01 up to 9:59:59 h:mm:ss). For use with switching times, Front-key function / Channel-key function and External input.
- Count-Down-Timer function: Similar to "Pulse-function" with extended pulse-length (Pulse-length timer 00:01 up to 9:59:59 h:mm:ss). For use with "Front-key function / Channel-key function" and External input.
- Advance warning function for lighting applications according DIN 18015-2. Twofold flashing warns of darkness. (Glow lamp connectable – glow lamp up to 75 mA).
- Front-key function / channel-key function: Adjustment of front-key function (ON/OFF, cycle, permanent, timer)
- External input (within the one channel version) as trigger for different functions (ON/OFF, cycle, permanent, timer)
- Security by PIN-Coding
- Illuminated display

Programmable time switch 172 4X2 pro

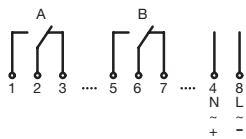
for DIN-rail mounting



172 412 pro (1 channel)



172 422 pro (2 channels)



Technical data

| | |
|--|---|
| Supply Voltage | 230 V, 50–60 Hz |
| Power consumption | approx. 1.5 VA |
| Channel (potential-free) | Change-over, contact gap < 3 mm (μ) |
| Contact material | AgSnO ₂ |
| Switching capacity | 16 A / 250 V~ at cosφ=1 |
| Filament Lamp | 2,000 W |
| Halogen Lamp | 2,000 W |
| Fluorescent Lamp uncompensated | 1,000 VA |
| Fluorescent Lamp series compensated | 1,000 VA |
| Fluorescent Lamp parallel compensated | 550 VA |
| Fluorescent Lamp double switch. | 1,000 VA |
| Mercury Discharge Lamp uncompensated | 4 x 125 W, 2 x 250 W, 1 x 400 W, 1 x 700 W |
| Mercury Discharge Lamp parallel compensated | 6 x 50 W (7 μF), 4 x 125 W (10 μF), 2 x 250 W (18 μF), 1 x 400 W (25 μF), 1 x 700 W (40 μF) |
| Sodium Discharge Lamp uncompensated | 2 x 250 W, 1 x 400 W |
| Sodium Discharge Lamp parallel compensated | 2 x 150 W (20 μF), 1 x 250 W (32 μF), 1 x 400 W (45 μF) |
| Compact Fluorescent Lamp convent. lamp ballast | 1,000 VA |
| Compact Fluorescent Lamp electron. lamp ballast | 4 x electronic lamp ballast, power independent |
| Switching functions | ON, OFF, cycle, pulse |
| Pulse length Pulse function (switching time) | 00:01 up to 59:59 mm:ss |
| Pulse length Timer (man. switching) | 0:00:01 up to 9:59:59 h:mm:ss |
| Pulse/Pause length Cycle | 0:00:01 up to 9:59:59 h:mm:ss |
| Memory locations | 100 |
| Minimum interval | 1 min |
| Time base | Quartz crystal |
| Power back-up (at 20°C) | approx. 6 years (depends on the Lithium-battery life) |
| Program security | unlimited (E ² -PROM) |
| Quartz cryst. accuracy (at 20°C) | ≤ ±1 sec/day |
| Display | high resolution LCD (visible area 7.5 cm ²) |
| Permitted ambient temperature | -10°...+55°C |
| Enclosure | self-extinguishing thermoplastic |
| Dimensions | 45 x 35 x 58 mm |
| Distribution board mounting | 35 mm DIN-rail (DIN EN 50022) |
| Type of connection | Screw terminals (pull-up type) |
| Type of protection | IP 20 to DIN EN 60529 |
| Class of protection | II when installed according to regulations |

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| Type/Order No. | Channels | Time Base | Special function |
|----------------|----------|-----------|------------------|
| 172 412 pro | 1 | Quartz | External input |
| 172 422 pro | 2 | Quartz | |