



Switches and Twilight Switches

Timers & Twilight Switches are applied in any residential, commercial and industrial buildings wherever automatic control is required on predefined times and/or depending on daylight intensity.

The Eaton range comprises of a wide variety of different products which include analogue Timers, digital Timers, Twilight Switches and Staircase Timers.

These Timers can either be controlled by a 50 Hz netsynchronisation, quartz control and time synchronisation or using the DCF signal or GPS antenna, which guarantees 100% accuracy at all times. Except for net-synchronised timers all units do have self power reserve to secure the time setting and program storage in case a power interruption does occur.

Dedicated computer software and memory cards are available to support the programming of our most advanced timers.

Automatic summer and winter time, holiday and random switching programs complete the functionality of our range.

Twilight Switches are supplied with a remote light sensor, which can be easily installed on the outside wall where the required light intensity threshold can be simply adjusted on the modular device itself.

Technical characteristics (depending on type)

- Modular design.
- Analogue and digital timers.
- Time adjustment by 50 Hz net, quartz control, DCF¹⁾ or GPS signal reception²⁾
- Manual override switching function.
- Power reserve for all quartz and DCF or GPS driven switches.
- Remote Light Sensor for Twilight Switching.

Benefits

- Easily programmable on front of device.
- Computer aided programming software available.
- Compact 18 mm design for restricted space opportunities.
- Separate IP40 covers are available for direct wall mounting.
- High level of accuracy.
- Automatic summer and winter time adjustment.
- Holiday & Random program settings.
- High power reserve up to 10 years.

Notes: 1) Automatic calculation of sunrise and sunset times throughout the year, including the possibility of astro times + / -2 hour shift.
2) The DCF-signal can only be received within a 1000 km radius.



Contactors and impulse switches

Contactors are frequently applied for switching of lamp loads, fans or pumps in both utility as well as industrial areas.

Eaton's "CR" contactors are very specific due to the applied operating coil and the construction of the main contacts. All contactors with ac/dc coils ensure silent operation which is further enhanced by a low power consumption.

Optimal contacts and low heat dissipation guarantee a long lifetime of the contactor which is available in a wide range of characteristics.

Technical characteristics

- Designed according to IEC 60947-4-1 and IEC 61095 standards.
- Suitable for applications in general control, heating & lighting applications.
- Available in 20, 25, 40 & 63 A ratings with up to 4-pole contacts.
- Optional add-on auxiliary contact available.
- DIN modular profile.
- Spacers available to extend lifetime (it is recommended to use 1 spacer between every 2 contactors installed).
- Day/night contactors available with manual override function.

Advantages of Eaton contactors

- Low inrush power for all ac/dc types.
- Availability of combined ac/dc type contactors ensure silent operation.
- Contactors of ac/dc coil type are operable on both ac and dc voltage. The 20 A and 25 A versions are also available with ac coil. All combined ac/dc type versions are equipped with surge protection on the operating coil.
- Equipped with contact indication.
- Optimal quality of contacts and low heat dissipation ensure a long life time.