



9902...



9902...59



9902...99



9902...09



8630...



86000...

Plug-in modules - LED / Diode / Timer

Plug-in modules are convenient add-on devices for relays which offer LED indication (*for ease of viewing relay status from a distance*), diode protection, RC circuits, bypass and timing facilities for all socket-mounted plug-in relays. The modules simply plug into specific sockets to enhance the relays functionality.

type	LED colour	description	voltage
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Diode module

Recovery diode modules are used for DC applications, reverse voltage peaks of the coil are short circuited by the recovery diode, release time is increased by a factor of 3.

9902300000	–	diode module (<i>standard polarity A1/+</i>)	6 - 220 VDC
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LED module

Used for AC and DC, the LED indicator illuminates when the relay coil is energised. It is essential to connect "+" to terminal A1 in DC applications.

9902002459	green	plug-in LED module	6 - 24 VAC/DC
9902006059	green	plug-in LED module	28 - 60 VAC/DC
9902023059	green	plug-in LED module	110 - 240 VAC/DC

LED + diode module

Recovery diode + LED module are used for DC, reverse voltage peaks are short circuited by the recovery diode (*positive to terminal A1*), release time is increased by approximately 3 times, if this is undesirable use a Varistor or RC module. LED indicator illuminates when coil is energised.

9902902499	green	plug-in LED + diode module	6 - 24 VDC
9902906099	green	plug-in LED + diode module	28 - 60 VDC
9902922099	green	plug-in LED + diode module	110 - 220 VDC

LED + varistor module

LED + Varistor modules are used for AC and DC coils, reverse voltage peaks of the relay coil are limited by the Varistor to approximately 2.5 times the nominal voltage of the supply. Insignificant increase in release times.

9902002498	green	plug-in LED + Varistor module	6 - 24 VAC/DC
9902006098	green	plug-in LED + Varistor module	28 - 60 VAC/DC
9902023098	green	plug-in LED + Varistor module	110 - 240 VAC/DC

RC circuit module

RC circuit modules are used for AC and DC applications. The reverse voltage peaks of the coil are limited by the RC module to approximately 2.5 times the nominal supply voltage. Insignificant increase in release times.

9902002409	green	plug-in RC module fo AC and DC lines	6 - 24 VAC/DC
9902006009	green	plug-in RC module fo AC and DC lines	28 - 60 VAC/DC
9902023009	green	plug-in RC module fo AC and DC lines	110 - 240 VAC/DC

Residual current bypass module

Bypass modules are used in applications for 110 and 220 VAC relays with a tendency to fail to release, mainly caused by residual currents from AC proximity switches or inductive coupling caused by long parallel lying AC control lines.

9902823007	–	plug-in residual current bypass module	110 - 240 VAC
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Timer modules

- Multi-function, multi-voltage timer module
- Time range: 1s, 10s, 100s, 10m, 100m, 10hr, 100hr (*adjustable*)
- Plugs directly into sockets converting standard relays into timing devices

Note: Can be used with **9002/3, 9203, 9604** sockets

863000240000	green	multi-range, bi-functional timer module	12 - 24 VAC/DC
863082400000	green	multi-range, bi-functional timer module	240 VAC
860002400000	green	multi-range, multi-function timer module	12 - 240 VAC/DC