

DIN RAIL 8 & 11 PIN PLUG IN DEDICATED VOLTAGE, DEDICATED TIME RANGE, CAPACITOR DISCHARGE TRUE DELAY OFF TIMERS

PRODUCT
GROUP
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TYPES: YRK F, 8RK F, 11RK F (spco) & 8R2K F, 11R2K F (dpco)

FEATURES

- Din rail & plug in versions
- SPCO & DPCO versions
- Simple & economic
- Ideal for OEM applications
- Single coil voltages 12VDC to 230VAC
- Single adjustable time ranges
- Option for fixed times
- LED indication
- CE marked

DESCRIPTION & MODE OF OPERATION

Simple din rail mounted or 8 & 11 pin plug in dedicated true delay off timers (capacitor discharge type), with dedicated coil voltage and time range. These timers are SPCO output with a DPCO option on the 8 and 11 pin plug in versions. These timers are ideal for mass production of OEM applications, or for any application where operator interference must be kept to a minimum. These timers can also on request, subject to a minimum quantity of 10 pieces, be factory set with an exact time, thus ensuring absolutely no operator interference. The timers feature a red LED to indicate supply healthy. All terminal details along with the CE mark is clearly marked on the sides of the housing.

The relay energises immediately the supply voltage is applied, when the supply voltage is removed the relay is held energised by a charged capacitor, the removal of the power supply voltage instigates the timing period. After the timing period has elapsed the relay will de-energise. A break in the supply of less than the set time will therefore be ignored. Since the relay is held energised after the removal of the supply by a charged capacitor, it is necessary that the initial connection of the supply voltage must be at least 300mSec to facilitate the full charging of the capacitor.

By nature a true delay off timer uses different relay technology, by the means of a magnetically latching mechanism. However, if subjected to undue physical shock, for example "in transit" the contacts maybe on initial connection be in the incorrect state. If this is the case this can be easily rectified by the connection and removal of the auxiliary supply voltage. Thus allowing the contacts to time out and return to the correct state.



SPECIFICATIONS

Timing:

Repeat accuracy:
constant ambient: $\pm 1\%$ of set value
across temp range: $\pm 4\%$

Relay outputs:

Output contacts: SPCO units 10Amps/250V AC1
DPCO units 8Amps/250V AC1

Max switching voltage: 250VAC, 30VDC
Mechanical life: 5 Million ops

Supply voltage:

Min supply on time: 300mSec
Supply voltage tolerance: $\pm 15\%$
Frequency: 50/60Hz
Max power consumption: 10VA

General:

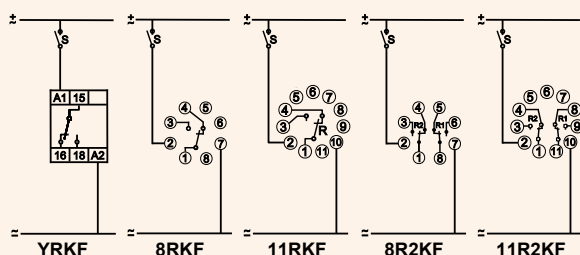
Operating temperature: -20°C to $+65^{\circ}\text{C}$
Storage temperature: -20°C to $+65^{\circ}\text{C}$
CE marked: Yes
In accordance with: EN61000-6-1: 2007
EN61000-6-3: 2007
EN61010-1: 2002
Housing material: Polycarbonate, Auto extinguishable to UL 94 V-0

ORDERING INFORMATION

| TYPE | TIME RANGE | | COIL VOLTAGE |
|-------------------------------|---------------|----------------|--------------|
| YRK F (Din rail SPCO) | 0.1 to 1 sec | 0.1 to 10 mins | 12V DC |
| 8RK F (8 pin plug in SPCO) | 0.3 to 3 sec | 0.2 to 20 mins | 24V AC/DC |
| 11RK F (11 pin plug in SPCO) | 0.1 to 10 sec | 0.3 to 30 mins | 48V AC/DC |
| 8R2K F (8 pin plug in DPCO) | 3 to 300 sec | | 110V AC |
| 11R2K F (11 pin plug in DPCO) | | | 230V AC |

Factory preset version remove "F" from type code and insert "P", then specify exact fixed time required

CONNECTIONS



FUNCTION

