/// Plug-in railway relay with 4 contacts

Rugged plug-in relays for extreme reliability, within long endurance applications and harsh environments

TDBE4-U200/300

Timer relay

Part of D-platform

Description

Plug-in electronic railway timer relay with delay-on and delay-off function and three change-over contacts and one normally-closed contact. The delay times are independently adjustable with two lockable knobs. The relay can also be supplied with one or two fixed delay times (one knob or none). The relay needs an auxiliary supply and can be activated with an external N/O contact or with AC or DC supply voltage.

The relay is equipped with two LEDs which indicate the presence of power supply and the energizing of the coil. Standard equipped with magnetic arc blow-out for high breaking capacity and long contact life.

The construction of the relay and choice of materials makes the TDBE4-U200/300 relay suitable to withstand low and high temperatures, shock & vibrating and dry to humid environments.

No external retaining clip needed as integrated ‘snap-lock’ will hold relay into socket under all circumstances and mounting directions. Compact design, choice of many options and a wide range of sockets makes the TDBE4-U200/300 relay an easy and flexible solution to use.

Application

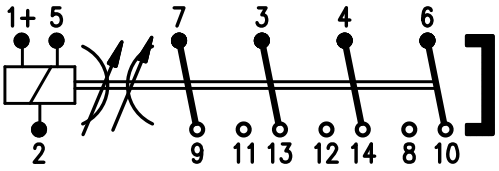
These relay series are designed for demanding rolling stock applications.

The TDBE4-U200/300 is used in applications where a delay on pull-in and on drop-out is necessary.

Features

- Time delay relay with auxiliary supply
- Delay on pull-in and on drop-out
- 3 C/O contacts and 1 N/C contact
- Both delay times independently adjustable with 2 lockable knobs
- Also available with 1 or 2 fixed time delays (1 knob or none)
- Total time delay range: 0 s...120 min
- Magnetic arc blow-out
- Two LEDs for status indication
- Suitable for AC or DC voltage
- Flat, square and silver plated relay pins for excellent socket connection
- Integrated snap lock
- Optional positive mechanical keying relay to socket

Connection diagram

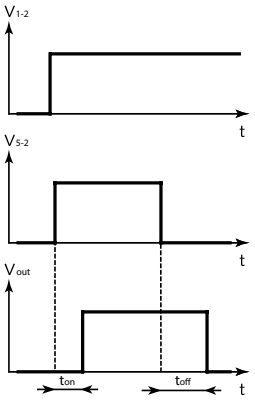


Remark: diagram shown is DC version with delay-on and delay-off both adjustable.

There are two possibilities for activating the relay:

1. Close N/O contact between input terminals 1 and 5
2. Supply voltage on input terminal 5

Timing diagram



Railway compliancy

EN 50155	EN 50121
IEC 60571	EN 45545-2
IEC 60077	NF F16-101/102
IEC 60947	NF F 62-002
IEC 61373	IEC 60947-5-4