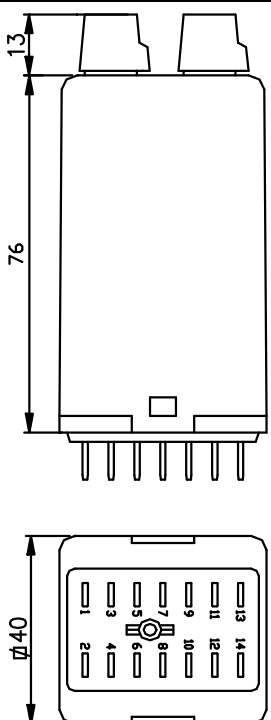

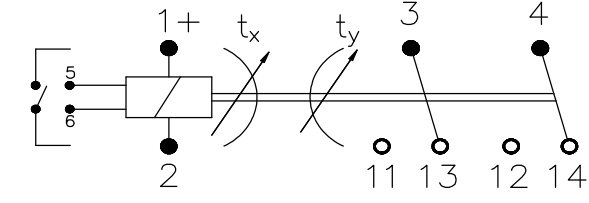
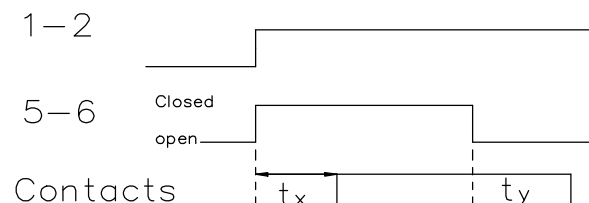


TIME DELAY RELAY

Product TDBE-U200 series delay-on & off timer relay	Country of origin: The Netherlands
Dimensions 	P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl <div style="text-align: right; margin-top: 20px;">  </div>
Connection diagram	
	
	

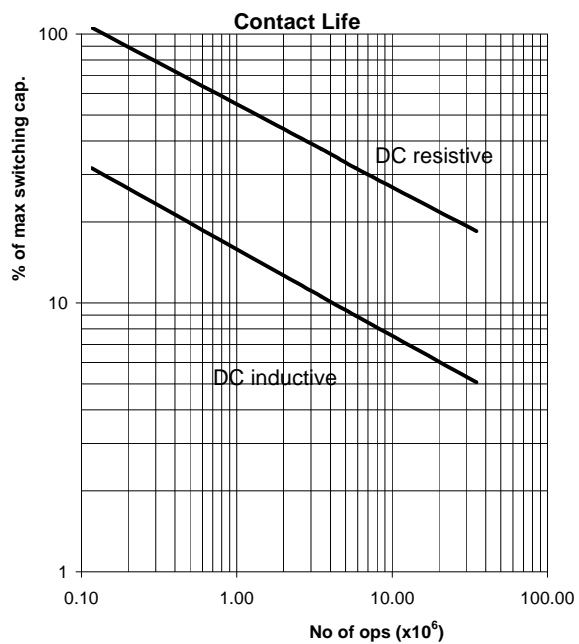
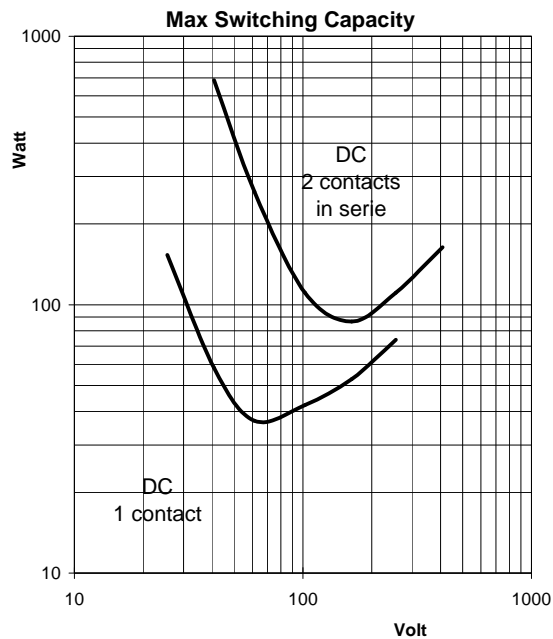
Description

Plug-in railway timer-relay with delay-on and delay-off function and two change-over contacts. Equipped with two LEDs that indicate the presence of supply and the energizing of the contacts. The relay can be delivered in a wide range of auxiliary supplies and is activated by a NO contact. Both delay times are independently adjustable with lockable knobs. The relay can also be supplied with one or two fixed delay times. (one knob or none) The TDBE-U200 relays are suitable for standard D- relay bases.

Auxiliary supply (DC)				Options		
Type	U_{nom} (V)	U_{min} (V)	U_{max} (V)			
TDBE-U201-xy	24	16.8	30	E	Gold plated contacts	
TDBE-U202-xy	48	33.6	60	K	Special dust protection (Only for fixed time settings) (unremovable dust cover)	
TDBE-U203-xy	72	50.4	90	B	Magnetic arc blow out	
TDBE-U204-xy	110	77.0	138	Q	Coil protection with double zener	
TDBE-U205-xy	96	67.2	120			
TDBE-U207-xy	36	25.2	45			
Nom. powerconsumption			Pull-in	< 1.8 W		
			Drop-out	< 0.5 W		
Pull-in time	Depending on pull-in time setting (x)					
Drop-out time	Depending on drop-out time setting (y)					
Time ranges, adjustable	0.1-1 s	0.3 - 3 s	0.6 - 6 s	1 - 10 s	3 - 30 s	6 - 60 s
		0.3 - 3 min	0.6 - 6 min	1 - 10 min	3 - 30 min	6 - 60 min
Every combination of t_x and t_y possible						
Adjustment accuracy	< 10%					
Repeat accuracy	± 0.5 %					
Time variation vs voltage variation				± 0.05 % / % U_{nom}		
vs temperature variation				± 0.02 % / K		

Contact data			
Max. make current	15 A	Material	Ag + 0.2 µm Au
Nom. current	6 A (AC1 ; IEC 947)	Contactgap	0.3 mm
Max. breaking capacity		Insulation between open contacts	1 kV, 50Hz, 1min
DC	300 V, 300mA	Contactforce	> 200 mN
AC	250 V, 2.6A	Note: contacts cannot have different position. (Forced contacts) (weld no transfer)	
Min. contact continuity	4V/ 2 mA /0.1W-VA		
Max. contact resistance	5 mW		

Maximum switching capacity and contact life: see graph



General data		
Dielectric strength	Pole-Pole	IEC 77 2 kV, 50 Hz, 1 min
	Cont-Coil	2 kV, 50 Hz, 1 min
EMC	EN50121-3-2	
Pulse withstanding	IEC 255-5	5 kV (1.2 / 50 µs)
Vibration	IEC 77	5 g at 50 Hz
	IEC 68-2-6	2 g at 10 - 150 Hz
	IEC 571-1	
Shock	IEC 77	5 g at 50 Hz
Mechanical life		30*10 ⁶ ops
Max. switching frequency		1200 ops/h
Weight		140 g
Temperature	T _{amb,max}	+70 °C
	T _{amb,min}	- 25 °C
Humidity	80% condensation not permitted	
Protection	IP 50	
Materials	Makrolon	
	Polyester	