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Hard copy product catalogues, and CDRoms have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.



Time Relay Universal 130

- Time relay for relay universal series
- 2 C/O



Order Code

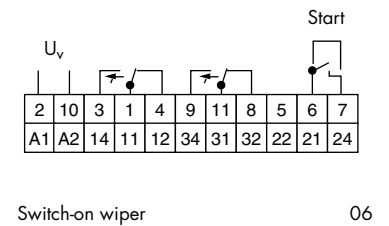
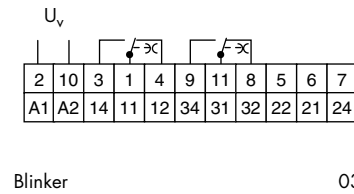
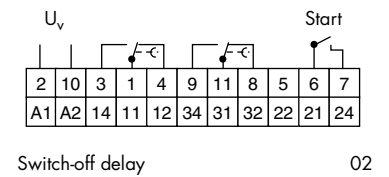
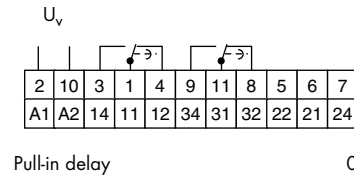
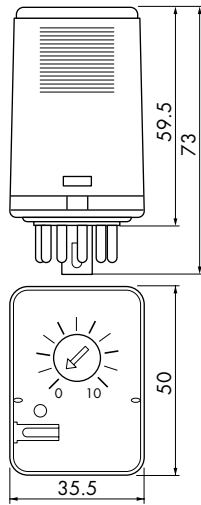
Order code	130	-	2	-	01	-	2	-	3	-	24 VDC/AC
Type of relay	130										
Contact arrangement			2								
Function											
01 Pull-in delay					01						
02 Switch-off delay					02						
03 Blinker					03						
06 Switch-on wiper					06						
Connection diagram											
2 11 pole							2				
Nominal time range / Impulse frequency											
3 0.1 - 3 s approx.									3		
30 0.5 - 30 s approx.									30		
180 2.0 - 180 s approx.									180		
600 4.0 - 600 s (on request)									600		
for function 03											
50 5 - 50 pulses/min approx.									50		
200 40 - 200 pulses/min approx.									200		
Nominal voltage											
24 VDC/AC											24 VDC/AC
110 VAC											110 VAC
230 VAC											230 VAC

Contact Data

	130
Contact arrangement	2 C/O
Type of contact	Single contact
Contact material	AgCdO
Nominal contact current	8 A
Inrush current	≤ 15 A
Nominal contact voltage	250 VAC
Max. switching capacity	2000 VA
Min. switching capacity	100 mA / 5 VDC



Dimensions, Connection Diagram(s)



General Data

	130
Mechanical service life	> 5 x 10 ⁶ switching cycles
Electrical service life	> 1 x 10 ⁵ switching cycles
Test voltage	
Inputs - contact	2500 VAC
Insulation group VDE 0110b/2.79	C250
Ambient temperature	0 °C to +40 °C
Weight	approx. 60 g
Operating range	DC / AC Class 1 0.8 - 1.1 U _N
Pull-in	Class a
after coil excitation with U _N at T _U	20 °C
Nominal frequency	40 - 60 Hz
Rated power	0.8 W

Control Circuit

Relay	130 ... 01, 130 ... 03, 130 ... 06	130 ... 02
Contact voltage	Supply voltage	≤ 15 V
Contact current	≤ 150 mA	≤ 15 mA
Contact load	approx. 1 VA	≤ 0.2 W
Input impedance	approx. 180 Ω	1 kΩ
Pulse duration		≤ 70 ms

Order Specifications for Accessories

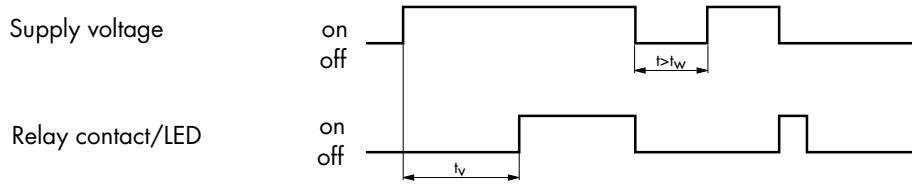
Relay		130
Socket for	Screw connection with quick-action fastening	Z345
		Z393



Function

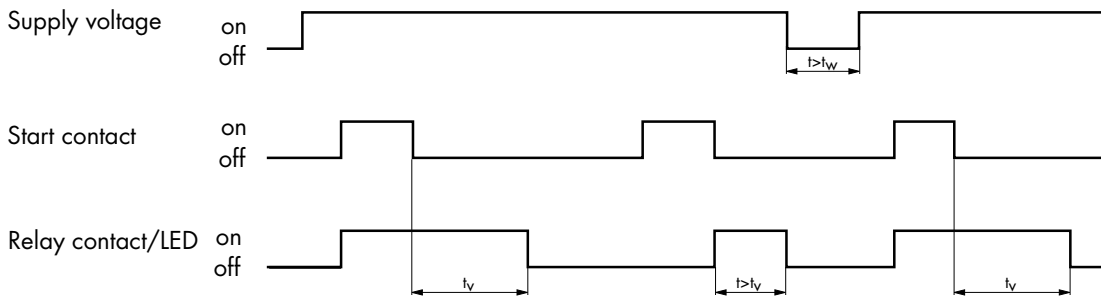
Pull-in delay 01

Switching with supply voltage



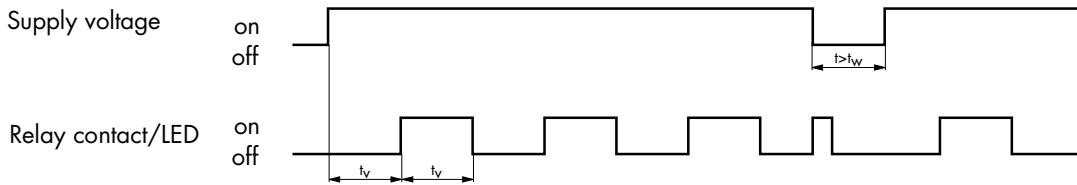
Switch-off delay 02

Switching with start contact



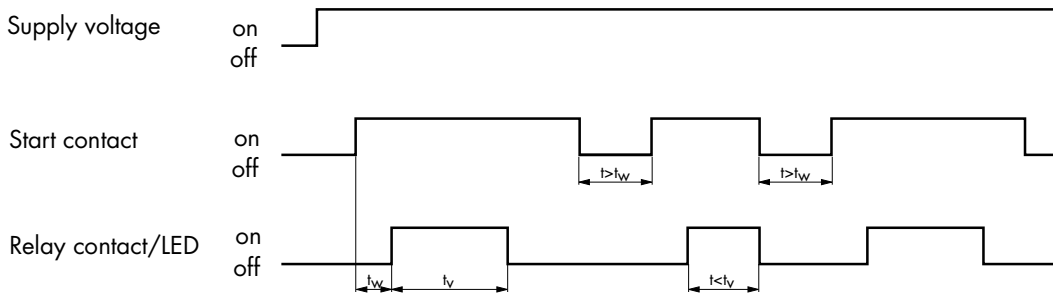
Blinker 03

Switching with supply voltage

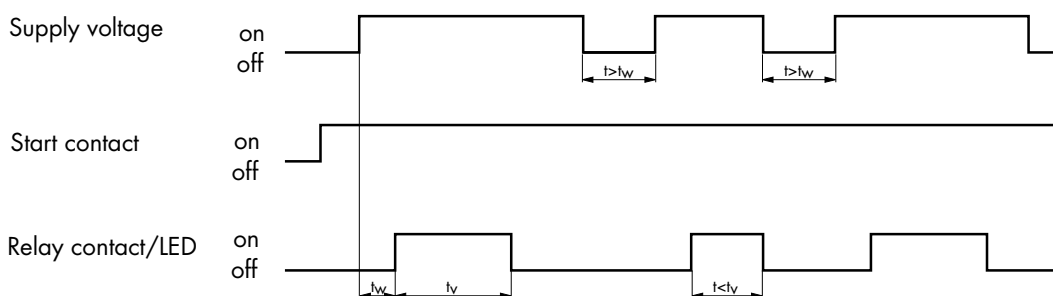


Switch-on wiper 06

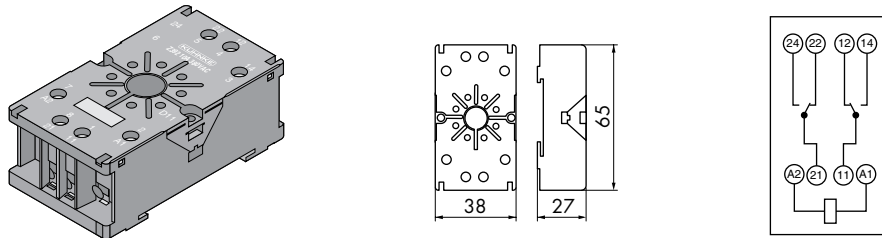
Switching with start contact



Switching with supply voltage

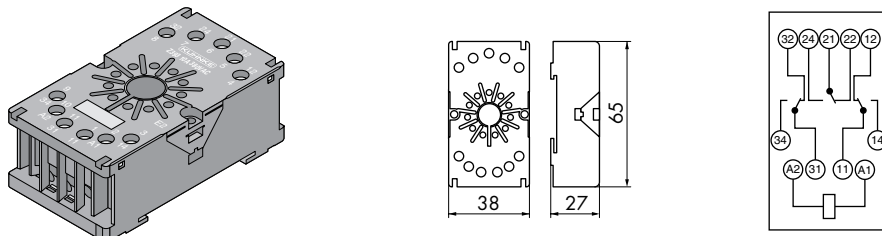


Socket Z392



Socket	Z392
Socket design	logical, additional modules not supported
Terminal capacity	
solid conductor	2 x 2.5 mm ²
flexible conductor with ferrule	2 x 2.5 mm ²
Terminal designation	in accordance with EN50005 and IEC67
Mounting	Rail EN50022-35 x 7.5/15 Screw mounting 2 x M3 or central M4
Screw terminals	Head screws metric M3
Torque in accordance with DIN EN 60999	0.5 Nm
Nominal current	10 A
Insulation group VDE 0110b/2.79	C250, B380
Electrical shock protection	in accordance with VBG4 (professional association), VDE 0106 part 100
Weight	63 g
Retaining clip	Z434

Socket Z393



Socket	Z393
Socket design	additional modules not supported
Terminal capacity	
solid conductor	2 x 2.5 mm ²
flexible conductor with ferrule	2 x 2.5 mm ²
Terminal designation	in accordance with EN50005 and IEC67
Mounting	Rail EN50022-35 x 7.5/15 Screw mounting 2 x M3 or central M4
Screw terminals	Head screws metric M3
Torque in accordance with DIN EN 60999	0.5 Nm
Nominal current	10 A
Insulation group VDE 0110b/2.79	C250, B380
Electrical shock protection	in accordance with VBG4 (professional association), VDE 0106 part 100
Weight	63 g
Retaining clip	Z434