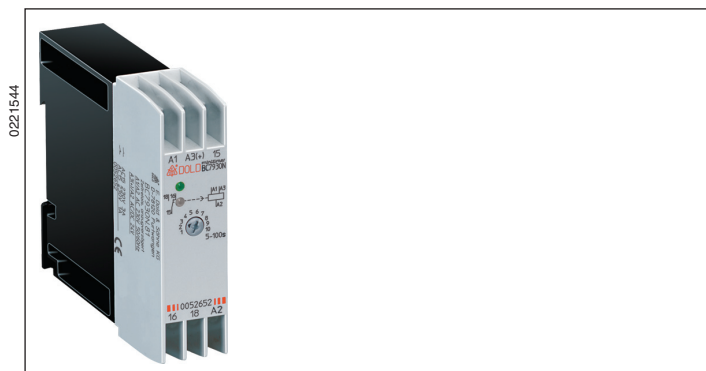


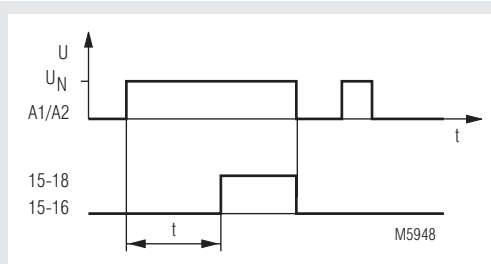
MINITIMER

Timer, operate delay
BC 7930N



- According to IEC/EN 61 812-1
- Time delay between 0.05 s ... 10 h
- Repeat accuracy $\leq 0.5 \% + 10 \text{ ms}$
- Dual voltage supply
- LED indicator for contact position
- 1 changeover contact
- Wire connection: also 2 x 1.5 mm² stranded ferruled (isolated), DIN 46 228-1/-2/-3/-4 or 2 x 2.5 mm² stranded ferruled DIN 46 228-1/-2/-3
- Width 22.5 mm

Function Diagram



Approvals and Marking



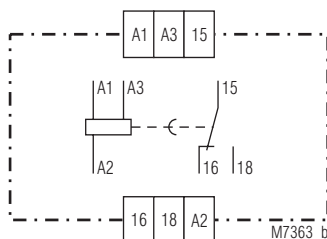
Applications

Time dependent controllers

Indication

LED: on when output relay activated (contacts 15-18 are closed)

Circuit Diagram



Technical Data

Time circuit

Time ranges:	0.05 ...	1 s	0.5 ...	10 min.
	0.15 ...	3 s	1.5 ...	30 min.
	0.5 ...	10 s	3 ...	60 min.
	1.5 ...	30 s	0.15 ...	3 h
	5 ...	100 s	0.5 ...	10 h
	15 ...	300 s		

Time setting:	stepless 1:20
Recovery time:	$\leq 100 \text{ ms}$
Repeat accuracy:	$\leq 0.5 \% + 10 \text{ ms}$
Voltage influence:	$\leq 1 \%$
Temperature influence:	$\leq 0.25 \% / \text{K}$

Input

Nominal voltage U_N :	AC/DC 24 V ¹⁾ + AC 230 V ²⁾
	AC/DC 24 V ¹⁾ + AC 110 ... 127 V ²⁾
	AC/DC 24 V ¹⁾ + AC 42 V ²⁾
	AC/DC 12 V
	¹⁾ at terminals A3-A2
	²⁾ at terminals A1-A2
Voltage range:	0.8 ... 1.1 U_N at AC
	0.9 ... 1.25 U_N at DC
Nominal consumption:	AC: 4 VA
	DC: 0.4 W
Nominal frequency:	50 / 60 Hz
Frequency range:	$\pm 5 \% f_N$
Release voltage:	15 % U_N

Output

Contacts:	1 changeover contact
Thermal current I_{th} :	4 A
Switching capacity	
to AC 15	
NO contact:	3 A / AC 230 V IEC/EN 60 947-5-1
NC contact:	1 A / AC 230 V IEC/EN 60 947-5-1
Electrical life	IEC/EN 60 947-5-1
to AC 15 at 1 A, AC 230 V:	1.5 x 10 ⁵ switching cycles

Technical Data

Short circuit strength

max. fuse rating:	4 A gL	IEC/EN 60 947-5-1
Mechanical life:	10 ⁸ switching cycles	

General Data

Operating mode: Continuous operation

Temperature range: - 20 ... + 60°C

Clearance and creepage distances

overvoltage category / pollution degree	4 kV / 2	IEC 60 664-1
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EMC

Electrostatic discharge: 8 kV (air) IEC/EN 61 000-4-2

HF irradiation: 10 V/m IEC/EN 61 000-4-3

Fast transients: 4 kV IEC/EN 61 000-4-4

Surge voltages

between

wires for power supply: 1 kV IEC/EN 61 000-4-5

between wire and ground: 4 kV IEC/EN 61 000-4-5

Interference suppression: Limit value class B EN 55 011

Degree of protection

Housing: IP 40 IEC/EN 60 529

Terminals: IP 20 IEC/EN 60 529

Housing: Thermoplastic with V0 behaviour
according to UL subject 94

Vibration resistance: Amplitude 0.35 mm IEC/EN 60 068-2-6
frequency 10 ... 55 Hz

Climate resistance: 20 / 060 / 04 IEC/EN 60 068-1

Terminal designation: EN 50 005

Wire connection: 1 x 4 mm² solid or
1 x 2.5 mm² stranded ferruled (isolated)
or
2 x 1.5 mm² stranded ferruled (isolated)
DIN 46 228-1/-2/-3/-4 or
2 x 2.5 mm² stranded ferruled
DIN 46 228-1/-2/-3

Wire fixing: Terminal screws M 3.5

Box terminal with wire protection

Mounting: DIN rail IEC/EN 60 715

Weight: 80 g

Dimensions

Width x height x depth: 22.5 x 84 x 97 mm

Standard Type

BC 7930N.81 AC/DC 24 V + AC 230 V 5 ... 100 s

Article number: 0052652

- Front colour grey, with box terminals
- Output: 1 changeover contact
- Nominal voltage U_N: AC/DC 24 V + AC 230 V
- Time range: 5 ... 100 s
- Width: 22.5 mm

Ordering Example

