

Technical Data

Time circuit

Impulse time:	0.3 ... 3 s $\hat{=}$ 100 ... 10 Imp./min.
Pulse duty factor:	1 : 1
Time setting:	infinite external setting
Repeat accuracy:	< \pm 3 %
voltage influence:	< \pm 1 %
Temperature influence:	< 0.4 % / K

Input

Nominal voltage U_N:	AC 24, 42, 110, 127, 230, 240 V DC 24 V residual ripple \leq 48 % with polarity protection
Voltage range:	0.8 ... 1.1 U_N
Nominal consumption:	AC 24 42 110 127 230 240 V without load 0.8 1.8 5 5 10 10 VA DC 24 V 0.8 W
Nominal frequency:	50 / 60 Hz

Output

Contacts

BA 7981.81:	1 changeover contact
BA 7981.82:	2 changeover contacts

Release time of the contacts: 50 ms

Thermal current I_{th} : 5 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

to AC 15 at 1 A, AC 230 V: \geq 2,5 x 10⁵ Schaltsp. IEC/EN 60 947-5-1

Permissible switching

frequency: depends on the flasher frequency

Short circuit strength

max. fuse rating: 6 A fast, 4 A slow IEC/EN 60 947-5-1

Mechanical life: > 30 x 10⁶ switching cycles

Semiconductor Outputs

BA 7981.91:	Triac
Switching voltage:	AC 12 ... 275 V
Output current:	4 A
BA 7981.95:	Transistor
Switching voltage:	DC 0 ... 30 V
Output current:	5 A

General Data

Operating mode: Continuous operation

Temperature range: 20 ... + 60 °C

Clearance and creepage distances

overvoltage category /
contamination level: 4 kV / 2 IEC 60 664-1

EMC

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

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

Fast transients: 2 kV IEC/EN 61 000-4-4

Surge voltage

between

wires for power supply: 2 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: Thermoplast with V0 behaviour
according to UL subject 94

Vibration resistance: Amplitude 0,35 mm

Frequenz 10 ... 55 Hz, IEC/EN 60 068-2-6

20 / 060 / 04 IEC/EN 60 068-1

Terminal arrangement: DIN 46 199-5

Terminal designation: EN 50 005

Technical Data

Wire connection:	2 x 2,5 mm ² solid or 2 x 1,5 mm ² stranded wire with sleeve DIN 46 228-1/-2/-3/-4
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999
Mounting:	DIN rail IEC/EN 60 715
Weight:	250 g
Dimensions	

Width x height x depth: 45 x 73 x 133 mm

Standard Type

BA 7981.81	AC 230 V	50/60 Hz	0,3 ... 3 s	
Article number:	0022425			stock item
• Output:	1 changeover contact			
• Nominal voltage U_N :	AC 230 V			
• Impulse time:	0,3 ... 3 s			
• Width:	45 mm			

Ordering Example

BA 7981 .95 5 A AC 230 V 50 / 60 Hz

