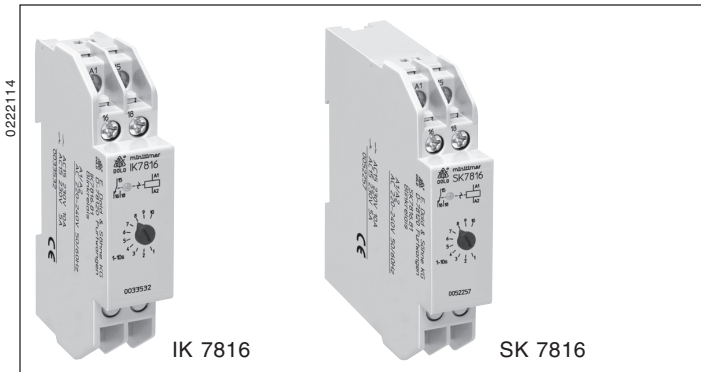
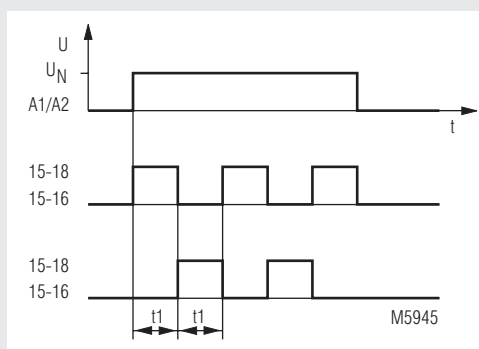


Flasher relay IK 7816, SK 7816 minitimer



- According to IEC/EN 61 812-1
- **Devices available in 2 enclosure versions:**
 - IK 7816:** depth 58 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880
 - SK 7816:** depth 98 mm, with terminals at the top for cabinets with mounting plate and cable ducts
- Pulse time up to 100 s
- Adjustable flashing time
- Repeat accuracy $\leq 1\%$
- Start with a pulse: IK 7816
- Start with a pause: IK 7816/100
- LED indicator for contact position
- 1 changeover contact
- Width 17,5 mm

Function diagram



Approvals and marking



Application

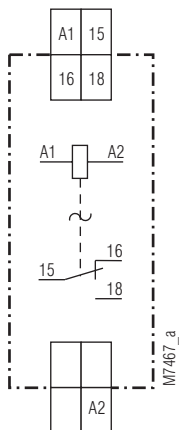
Time-based control equipment

Indicator

LED: on when the output relay is activated (contact 15 - 18 is closed)

Technical data

Circuit diagram



IK 7816.81, SK 7816.81

Time circuit

Time range: 0,1 ... 1 s = 300 ... 30 pulses/min
 1 ... 10 s
 10 ... 100 s on request

Pulse duty factor: 1 : 1

Setting: Infinitely variable, on relative scale

Recovery time
 tw 50 / 100: < 60 ms

Repeat accuracy: 0,1 %

Voltage influence: $\leq 1\%$ at 0,8 ... 1,1 U_N

Temperature influence: 0,05 % / K

Input

Nominal voltage U_N : AC/DC 24 V, AC 220 ... 240 V
 AC/DC 12 V on request

Voltage range: 0,8 ... 1,1 U_N with AC and
 DC 48 % residual ripple
 0,9 ... 1,25 U_N in battery operating mode

Release voltage: 15 % U_N

Nominal consumption: AC/DC 24 V 0,6 W
 AC 230 V 50 Hz 3,5 VA

Nominal frequency: 50 / 60 Hz

Frequency range: $\pm 5\%$

Output

Contacts
 IK 7816.81, SK 7816.81: 1 changeover contact

Thermal current I_{th} : 10 A at 45°C ambient temperature

Switching capacity
 to AC 15

NO contact: 10 A / AC 230 V IEC/EN 60 947-5-1

NC contact: 5 A / AC 230 V IEC/EN 60 947-5-1

Glow lamp load: 1200 W

Electrical life: IEC/EN 60 947-5-1

AC 15 at 3 A, AC 230 V: 5 x 10⁵ switching cycles

Permissible switching frequency: 6 000 switching cycles/h

Technical data

Short circuit strength

max. fuse rating: 10 AgL IEC/EN 60 947-5-1

max. line circuit breaker: B16 IEC/EN 60 947-5-1

Mechanical life: > 30 x 10⁶ 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

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: 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:

Thermoplastic with V0 behaviour

according to UL Subj. 94

Vibration resistance:

Amplitude 0,35 mm

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

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

Climate resistance:

EN 50 005

Terminal designation:

EN 50 005

Wire connection:

2 x 2,5 mm² solid or

2 x 1,5 mm² stranded ferruled

DIN 46 228-1/-2/-3/-4

Wire fixing:

Flat terminals with self-lifting

clamping piece IEC/EN 60 999-1

Mounting:

DIN rail IEC/EN 60 715

Weight

IK 7816: 75 g

SK 7816: 94 g

Dimensions

Width x height x depth

IK 7816: 17,5 x 90 x 58 mm

SK 7816: 17,5 x 90 x 98 mm

Standard type

IK 7816.81 AC 220 ... 240 V 1 ... 10 s
Article number: 0033532 stock item

• Output: 1 changeover contact

• Nominal voltage U_N: AC 220 ... 240 V

• Time range: 1 ... 10 s

• Width: 17,5 mm

SK 7816.81 AC 220 ... 240 V 1 ... 10 s

Article number: 0052257

• Output: 1 changeover contact

• Nominal voltage U_N: AC 220 ... 240 V

• Time range: 1 ... 10 s

• Width: 17,5 mm

Variant

IK 7816/100: Start with a pause

Ordering example for variant

IK 7816 .81 AC 220 ... 240 V 50 / 60 Hz 1 ... 10 s

