

## 1.2 Interface Relays

### CINT-52 / CINT-62

#### 2 pole | changeover contact



#### Main circuit

Available contact materials	AgSnO <sub>2</sub> + 5μ Au
Recommended minimum contact load	5 mA / 5V
Maximum contact load AC	8A / 250 V AC-1
Maximum contact load DC	8A / 30 V DC-1
Rated current	8 A
Inrush current	15 A, 20 ms
AC load	2000 VA
DC load	fig. 3.
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 80 000

#### Control circuit

Nominal voltage	see table product references
Operating voltage range	0.7 U <sub>N</sub> ... 1.25 U <sub>N</sub>
Pick-up voltage	≤ 0.7 U <sub>N</sub>
Release voltage	≥ 0.1 U <sub>N</sub>
Power consumption AC / DC	0.75 VA / 0.5 W

#### Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / coil	4 kV / 1 min
Pollution degree	3
Overvoltage category	III

#### General data

Ambient temperature storage (no ice)	-40 ... 85 °C
Ambient temperature operation	-20 ... 55 °C
Pick-up time / bounce time	5 ms / ≤ 8 ms
Release time / bounce time	10 ms / ≤ 6 ms
Conductor cross section screw terminal	2.5 mm <sup>2</sup>
Conductor cross section spring cage	0.5 ... 2.5 mm <sup>2</sup>
Protection degree	IP 20
Mounting	TH 35 (EN 60715)
Dimension	fig. 4.
Weight	63 g
Housing material	PA

#### Product reference

Description	Type	UC24	AC230
Screw terminal	CINT-52/...V	✓	✓
Cage clamp terminal	CINT-62/...V	✓	✓

«...» List coil voltage to complete product references

#### Accessories

Jumper link	black: CINT-BR8/5
Label plate	CINT5-BEZ/18

#### Replacement relays

Description	Type	24 *	110 *
DC	CINT-R22/DC...V	✓	✓

«...» List coil voltage to complete product references

\*24 V relay used for 24 V sockets, 110 V relay used for 230 V sockets.



fig. 1. Wiring diagram

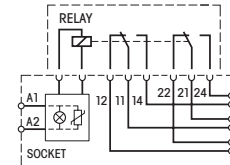


fig. 2 AC voltage endurance

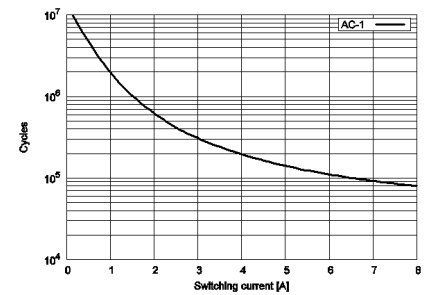


fig. 3 DC load limit curve

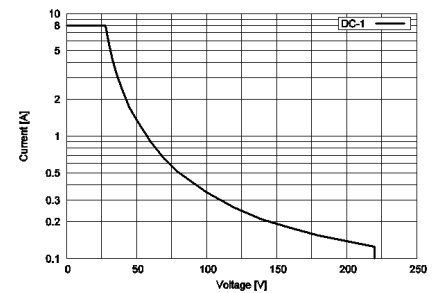
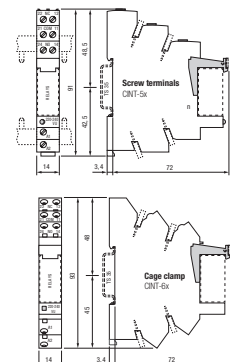


fig. 4. Dimension (mm)



#### Technical approvals, conformities

Standards IEC/EN 61810-1

Approvals



### CRINT Product Key

1		2	3	4	5	6		7	8
CRINT	-	C	1	3	1	R	/	UC	24V

#### 1. Product family

CRINT

#### 2. Type

C = Combined version (Socket and Relay)

#### 3. Contact

- 1 = One change-over contact
- 2 = Two change-over contact

#### 4. Connection type

- 1 = Screw terminal
- 2 = Cage clamp terminal
- 3 = Push-in

#### 5. Output

- 1 = AgSnO<sub>2</sub>
- 2 = AgSnO<sub>2</sub> + 3μ Au
- 3 = AgNi
- 5 = NO / Solid-state DC
- 8 = NO / Solid-state AC

#### 6. Options

- = Standard version
- R = Railway version

#### 7. Supply voltage

- UC = AC/DC
- DC = Only for C1x5 and C1x8

#### 8. Nominal voltage

12V, 24V, 48V, 60V, 110-125V, 220-240V

### RELAY Only

1		2	3	4	5
CRINT	-	R	11	DC	12V

#### 1. Product family

CRINT

#### 2. Type

R = Relay

#### 3. Contact

- 11 = 1x AgSnO<sub>2</sub>
- 12 = 1x AgSnO<sub>2</sub> + 3μ Au
- 15 = NO / Solid-state DC
- 18 = NO / Solid-state AC
- 21 = 2x AgSnO<sub>2</sub>
- 22 = 2x AgNi + 3μ Au
- 23 = 2x AgNi

#### 4. Control voltage

DC

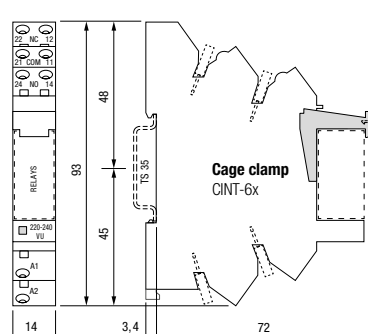
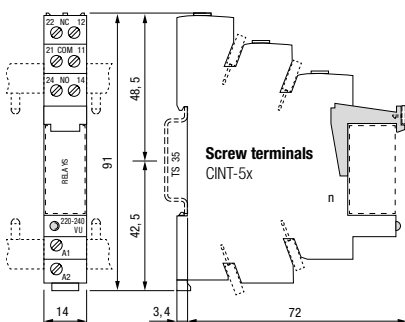
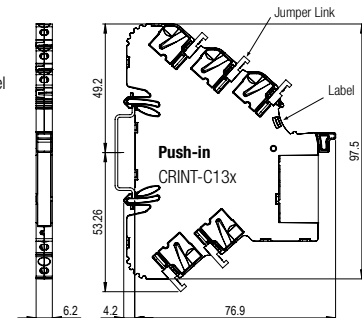
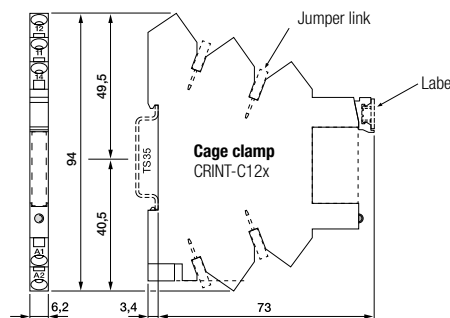
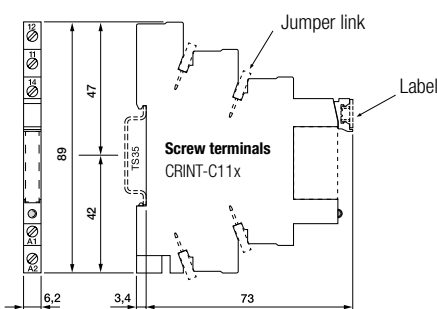
#### 5. Rated control voltage

12 V, 24 V, 48 V, 60 V\*

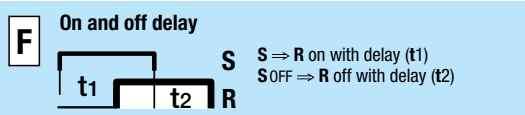
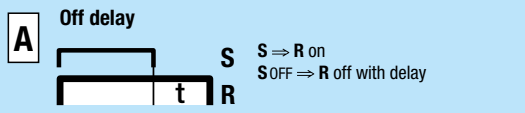
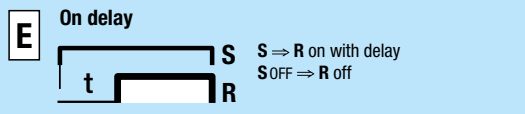
\*60 V Relay used for all sockets with a nominal voltage higher or equal 60V

### CRINT-C1xx & CINT-C5x/C6x

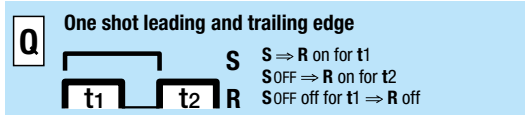
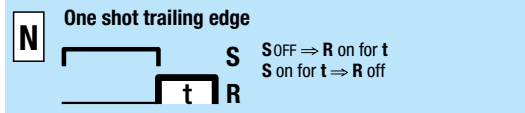
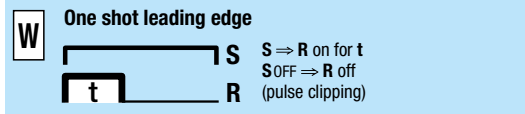
### Dimension (mm)



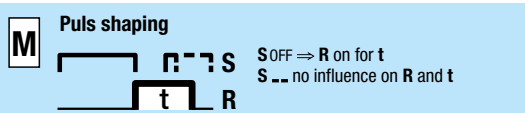
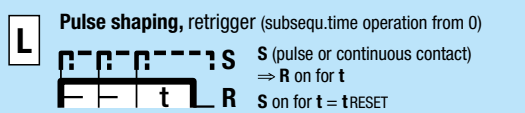
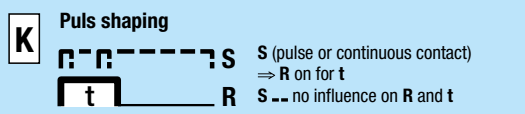
## Delay functions



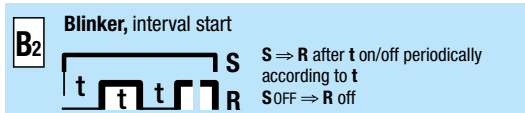
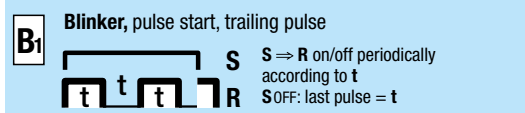
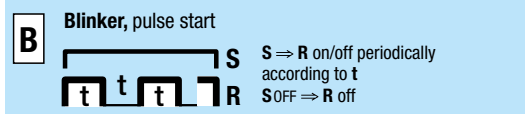
## Shot timing modes



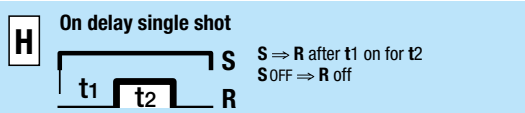
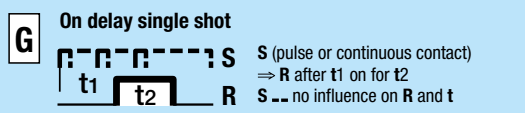
## Puls shaping



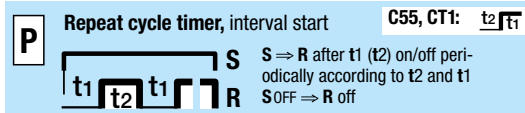
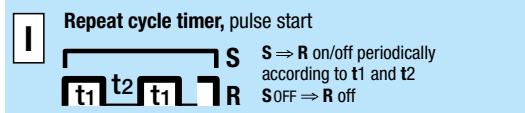
## Blinker functions



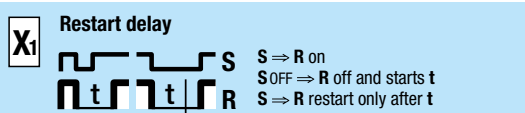
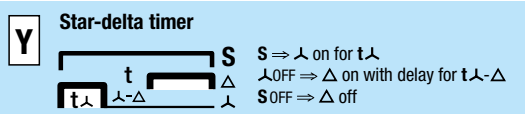
## Delayed pulse



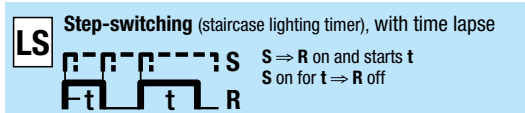
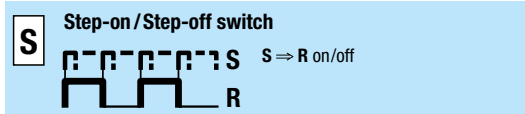
## Repeat cycle timer



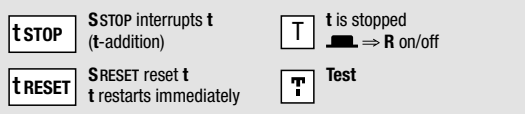
## Special functions



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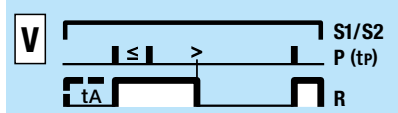
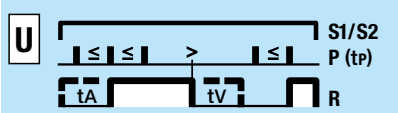
## Stop / Reset



S = Triggering  
R = Output circuit  
⇒ = switches...



## Pulse sequence monitoring



S1/S2 = Monitoring start  
P = Pulse sequence  
tp = Pulse separation

≤: Pulse separation is **smaller** than the time tp  
>: Pulse separation is **larger** than the time tp

Start with S1 = **without** start-up short-out tA  
Start with S2 = start-up short-out tA

tv = settable alarm delay  
delay (tA = tv)

