

Main circuit

Available contact materials	⚡ AgNi
Recommended minimum contact load	10 mA / 24 V
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 _N ... 1.25 U _N
Pick-up voltage	≤ 0.7 U _N
Release voltage	≥ 0.1 U _N
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 ²
Conductor cross section spring cage	0.5 ... 2.5 mm ²
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-53/...V	✓	✓
Cage clamp terminal	CINT-63/...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-R23/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

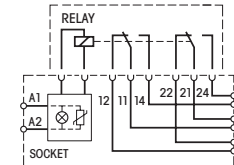


fig. 2 AC voltage endurance

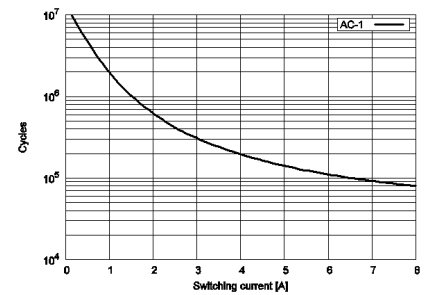


fig. 3 DC load limit curve

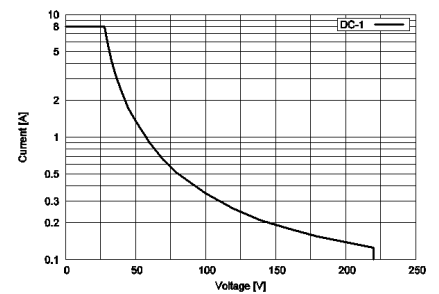
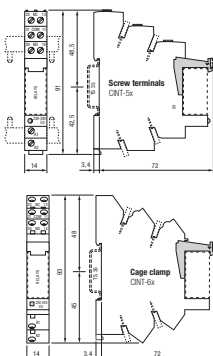


fig. 4. Dimension (mm)



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 = AgSnO₂
- 2 = AgSnO₂ + 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 AgSnO₂
- 12 = 1x AgSnO₂ + 3μ Au
- 15 = NO / Solid-state DC
- 18 = NO / Solid-state AC
- 21 = 2x AgSnO₂
- 22 = 2x AgNi + 3μ Au
- 23 = 2x AgNi

4. Control voltage

DC

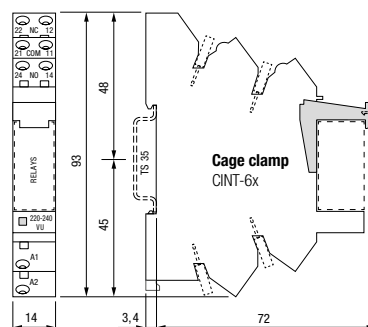
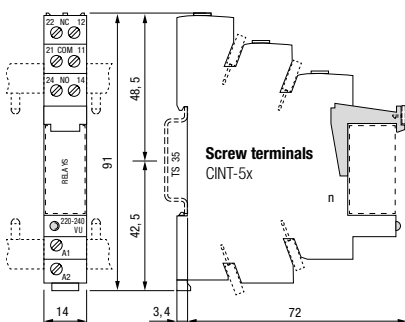
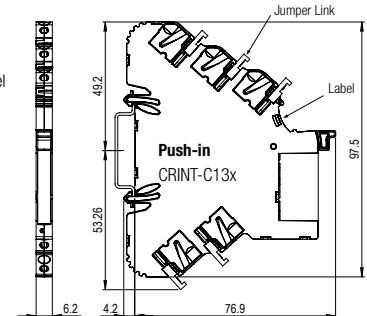
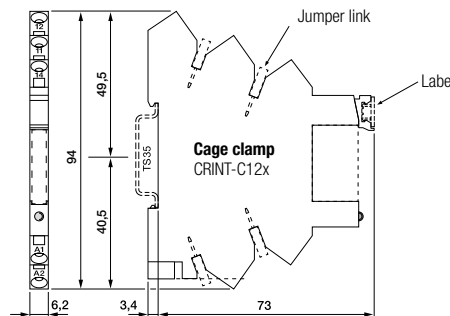
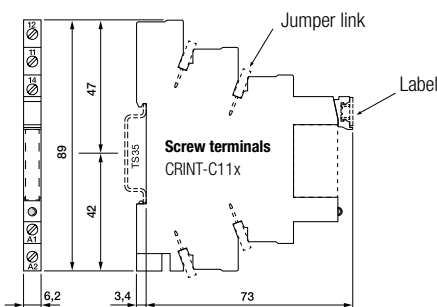
5. Rated control voltage

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

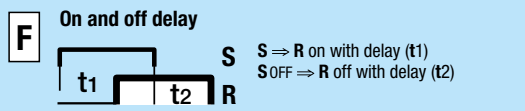
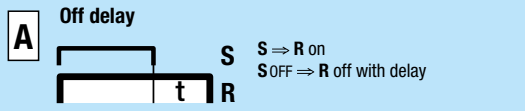
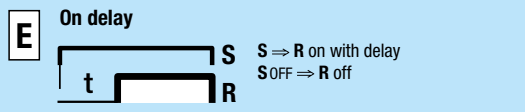
*60 V Relay used for all sockets with a nominal voltage higher or equal 60V

CRINT-C1xx & CINT-C5x/C6x

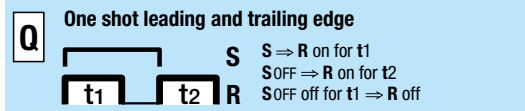
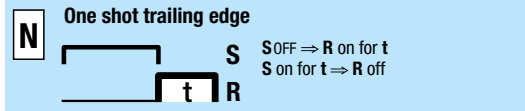
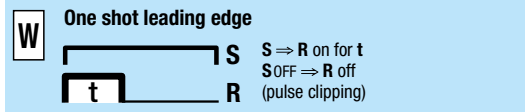
Dimension (mm)



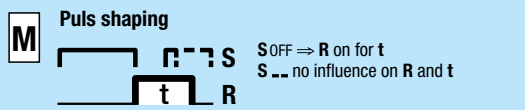
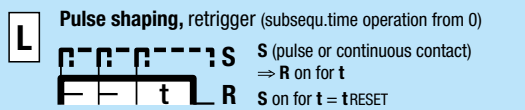
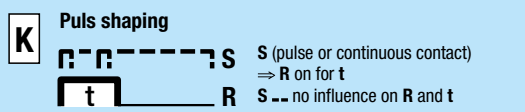
Delay functions



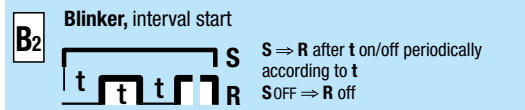
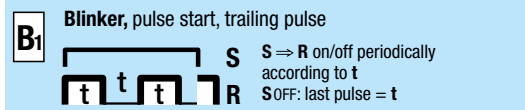
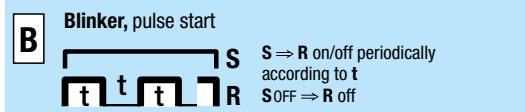
Shot timing modes



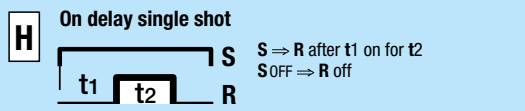
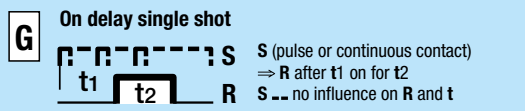
Puls shaping



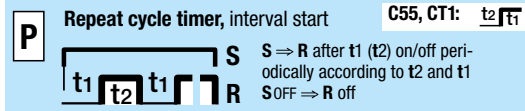
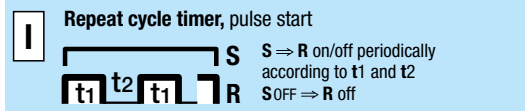
Blinker functions



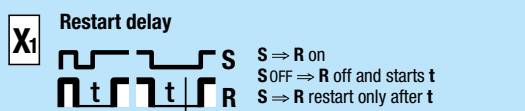
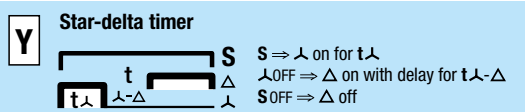
Delayed pulse



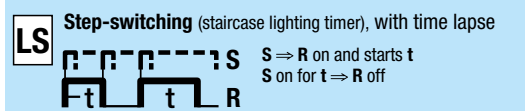
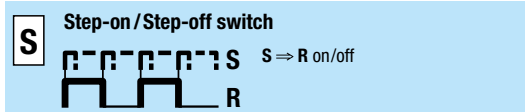
Repeat cycle timer



Special functions



Special functions



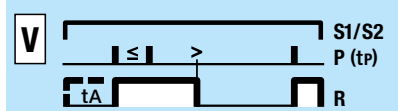
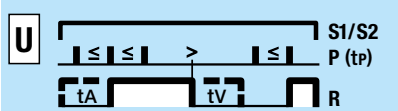
Stop / Reset



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 t_A
Start with S2 = start-up short-out t_A

t_v = settable alarm delay
delay (t_A = t_v)

Time Cubes



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page										
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U		V	sec	min	h	d					
CT...E 30	●																												30				229	
CT...A 30		●																												30				229
CT...K 30				●			●																							30				229
CT...B 30										●																				30				229

Modular plug-in Time Relays (CT-System)



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page											
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U		V	sec	min	h	d						
CT32...	●	●					●																							60*				233	
CT33...	●	●	△				●			●			▲	▲																			60*		234
CT36...																●	●															60*		235	

Plug-in Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page										
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U		V	sec	min	h	d					
C55	●	●	●	●	●	●	●						●	●	●	●								●	●	●	●					60		210
C55.3	●	●	●	●	●	●	●						●	●	●	●								●	●	●	●					60		211
C55.4	●	●	●	●	●	●	●						●	●	●	●								●	●	●	●					60		212
C56	●	●	●	●	●	●	●						●	●	●	●								●	●	●	●					60		213
C64		■				■																								20				214
CS2				●			●						●	●												●						60*		217
CS3	●	●		●			●					●	●																			60*		218
RS 41-M	●	●		●			●					●																		15				219

Plug-in Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page										
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	X1	U		V	sec	min	h	d					
C83	●	●	△		●	●	△	●	●			●	●		▲	▲																60*		215
C85			●			●									●	●	●	●														60*		216

DIN Time Relays



Type	Function																t-Stop	t-Reset	Ext. Poti	t max.				Page										
	E	A	F	W	N	Q	K	L	M	B	B1	B2	G	H	I	P				S	LS	Y	U		V	sec	min	h	d					
AA2 - AA2M	●																													1,5/12				170
AE2 - AE2M	●																													1,5/12				171
AL1								●																										195
AL3								●									●	●												60				196
AL4								●									●	●												60				197
AL5																	●																	198
AM1	●			●						●		●																		60				199
AM2	●	●		●			●																							60				200
AM3 ¹⁾	●	●		●			●																							60				201
CM2	●	●		●			●																									12		202
CM3	●	●		●	●		●				●	●																				60*		203
CMD11 A	●																																	168
CMD11 E	●																																	169
CIM1	●	●		●	●		●				●	●					●	●														60*		176
CIM12	●	●		●	●		●				●	●					●	●														60*		178
CIM13	●	●		●	●		●				●	●					●	●														60*		180
CIM14	●	●		●	●		●				●	●					●	●														60*		182
CIM2	●	●						●	●			●	●																			60*		183
CIM22	●	●						●	●			●	●																			60*		185
CIM23	●	●						●	●			●	●																			60*		187
CIM3			●			●							●	●	●	●																60*		189
CIM32			●			●							●	●	●	●																60*		191
CIM33			●			●							●	●	●	●																60*		193
CRV4	●	●	△	●	●	△	●	●	●	●	●	●	●	●			●	●								●						60*		205
CSV4	●	●	△	●	●	△	●	●	●	●	●	●	●	●			●	●									●					10*		206
CPF11	●						●	●																						0,6				204
CY1																								●										208

* TF-60 Setting of long times

The TF60 time setting method permits short examination of long delay time settings. Elapsing times of hours can be monitored in the sec. range.

Example for a delay time of 38h:

1. Set range switch to 60sec
2. Set 38sec on the potentiometer (e.g. check 38sec by chronometer)
3. Set range switch to 60h

The delay time now amounts to 38h.

- ¹⁾ alternatively with instantaneous contact
 ■ without auxiliary voltage (relay bistable)
 □ without auxiliary voltage (relay monostable)

△ t₂ = t₁
 ▲ t₂ = 0.5s