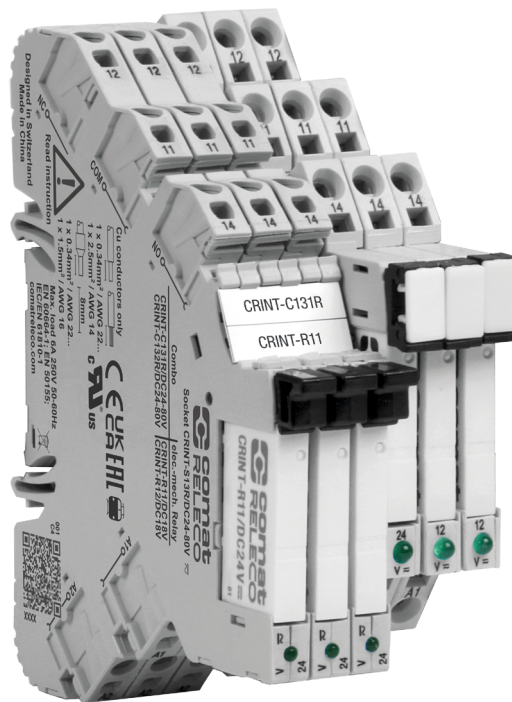




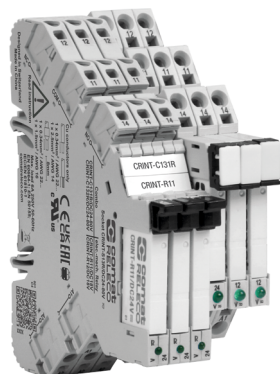
Interface relays for railway applications

CRINT



Interface relays CRINT

- Electromechanical relay modules
up to 6 A 250 V, various contact materials
- Solid-state relay modules for most load types,
up to 4 A
- LED status display
- Potential bridge bars
- Compact design 6.2 mm wide
- EN 45545-2, EN 50155
- Nominal voltages for 12 V / 24 V
and 24 - 110 V / 110 - 125 V / 220 - 240 V
- Push-in or cage clamp terminals



CRINT-C1x1



EMR interface module

For PLC and process control. High-performance AgSnO₂ contact.

Available with cage clamp terminals or push-in terminals. Recommended maximum load 250 V 6 A.

CRINT-C1x2



EMR interface module

Specifically for PLCs and process controllers with DC currents. Contact AgSnO₂ + Au.

For low power applications. Available with cage clamp terminals or push-in terminals.

CRINT-C1x5



MOSFET interface module

For PLC and process control. DC solid-state switch, normally open.

For high-speed, high-frequency switching. Available with cage clamp terminals or push-in terminals.

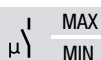
CRINT-C1x8



TRIAC interface module

For PLC and process control. AC output interface zero-synchronous switching NO for resistive or similar load (no transformer required).

Available with cage clamp terminals or push-in terminals.



MAX
MIN

6 A 250 V AC

100 mA / 12 V

6 A 250 V AC

10 mA / 12 V

4 A 24 V DC

20 mA / 12 V

2 A 240 V AC

100 mA / 12 V

Technical Data		CRINT-C1x1	CRINT-C1x2	CRINT-C1x5	CRINT-C1x8
	Contact type/material	CO / AgSnO ₂	CO / AgSnO ₂ + Au	NO / Solid-state DC	NO / Solide-state AC (triac)
	Rated load AC-1	1500 VA	1500 VA	—	480 W
	Switching power DC-1 24 V / 230 V	180 W	180 W	96 W	—
	Switching power AC-15	300 VA / 230 V	—	—	—
	Inrush current	15 A / 2.5 ms	15 A / 2.5 ms	48 A / 10 ms	80 A / 10 ms
	Switching cycles: mech./elec.	10 x 10 ⁶ / 3 x 10 ⁴	10 x 10 ⁶ / 3 x 10 ⁴	—	—
	Insulation open contact / contact — control	1 kV / 6 kV	1 kV / 6 kV	1 kV / 2.5 kV	1 kV / 2.5 kV
	Operating voltage range	0.8 ... 1.25 U _{Nominal} 0.7 ... 1.275 U _{Nominal}	0.8 ... 1.25 U _{Nominal} 0.7 ... 1.275 U _{Nominal}	0.8 ... 1.2 U _{Nominal}	0.8 ... 1.2 U _{Nominal}
	Power consumption AC / DC	0.9 VA / 0.4 W	0.9 VA / 0.4 W	160 mW	150 mW
	On delay / release time	7 ms / < 8 ms	7 ms / < 8 ms	≤ 50 μs / ≤ 300 μs	1/2 Cycle +1 ms / 1/2 Cycle +1 ms
	Operating temperature	-40 ... 70 °C (-40 ... 55 °C for U _{Nominal} > 60 V)	-40 ... 70 °C (-40 ... 55 °C for U _{Nominal} > 60 V)	-30 ... 70 °C	-30 ... 70 °C

All data is average data. For more details, please refer to the respective data sheet.



CRINT-C1x1



CRINT-C1x2



CRINT-C1x5



CRINT-C1x8



CRINT with cage clamp terminals

Nominal voltage

AC / DC 24 V	CRINT-C121R/UC24V	CRINT-C122R/UC24V	CRINT-C125R/DC24V	CRINT-C128R/DC24V
AC / DC 110-125 V	CRINT-C121R/UC110-125V	CRINT-C122R/UC110-125V	CRINT-C125R/DC110-125V	CRINT-C128R/DC110-125V
AC / DC 220 – 240 V	–	CRINT-C122R/UC220-240V	–	–

CRINT with push-in terminals

Nominal voltage

AC / DC 12 V	–	CRINT-C132R/UC12V	–	–
AC / DC 24 V	CRINT-C131R/UC24V	CRINT-C132R/UC24V	CRINT-C135R/DC24V	CRINT-C138R/DC24V
DC 24 - 110 V wide range	CRINT-C131R/DC24-110V	CRINT-C132R/DC24-110V	–	–
AC / DC 110-125 V	CRINT-C131R/UC110-125V	CRINT-C132R/UC110-125V	CRINT-C135R/DC110-125V	CRINT-C138R/DC110-125V
AC / DC 220 – 240 V	CRINT-C131R/UC220-240V	CRINT-C132R/UC220-240V	–	–

CRINT Product Key

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

1. Product family

2. Type

C = Combined version (Socket and Relay)
R = Relay

3. Contact

1 = One change-over contact
2 = Two change-over contact
3 = One change-over contact, dual terminal

4. Connection type

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

5. Output

1 = AgSnO₂
2 = AgSnO₂ + Au
3 = AgNi
4 = AgNi + Au
5 = NO / Solid-state DC
8 = NO / Solid-state AC

6. Options

without = Standard version
R = Railway version

Relay Product Key

1		2	3	5		7	9
CRINT	-	R	1	1	/	DC	12V

7. Supply voltage

UC = $\sim$ / $\equiv$
DC = $\equiv$

8. Nominal control voltage CRINT (AC / DC)

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

9. Nominal control voltage relay (DC)

12V for sockets with a nominal voltage of 12 V and 24-110 V
24V for sockets with a nominal voltage of 24 V
60V for all sockets with a nominal voltage of $\geq$ 60 V



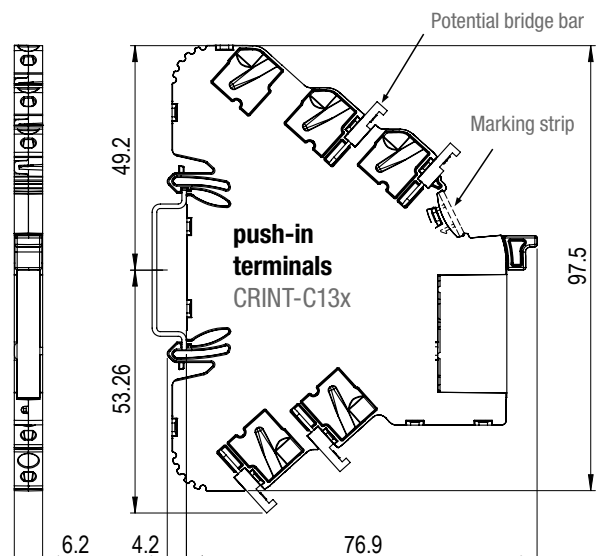
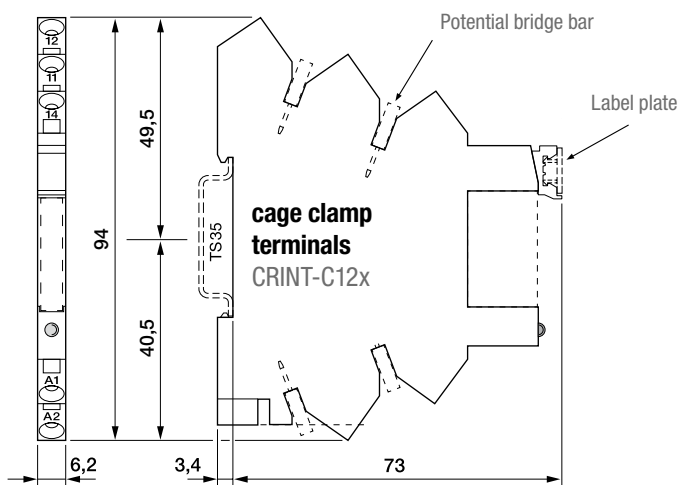
Accessories

	ELDAS	
Potential bridge bar		
CRINT-BR20-BK (black)	505795000	
CRINT-BR20-BU (blue)	505795030	
CRINT-BR20-RD (red)	505795020	
Label plate		
CRINT-LAB	505795920	
Marking strip for push-in CRINT		
BS11-PI (50m)	505790720	
Spacer		
CRINT-SEP	505795910	

Replacement Relays

	ELDAS	
CRINT-R11/DC12V	505750712	
CRINT-R11/DC24V	505750732	
CRINT-R11/DC60V	505750752	
CRINT-R12/DC12V	505750812	
CRINT-R12/DC24V	505750832	
CRINT-R12/DC60V	505750852	
CRINT-R15/DC12V	505760712	
CRINT-R15/DC24V	505760732	
CRINT-R15/DC60V	505760752	
CRINT-R18/DC12V	505760812	
CRINT-R18/DC24V	505760832	
CRINT-R18/DC60V	505760852	

Dimensions



Approvals

Standards EN 45545-2, EN 50155

