

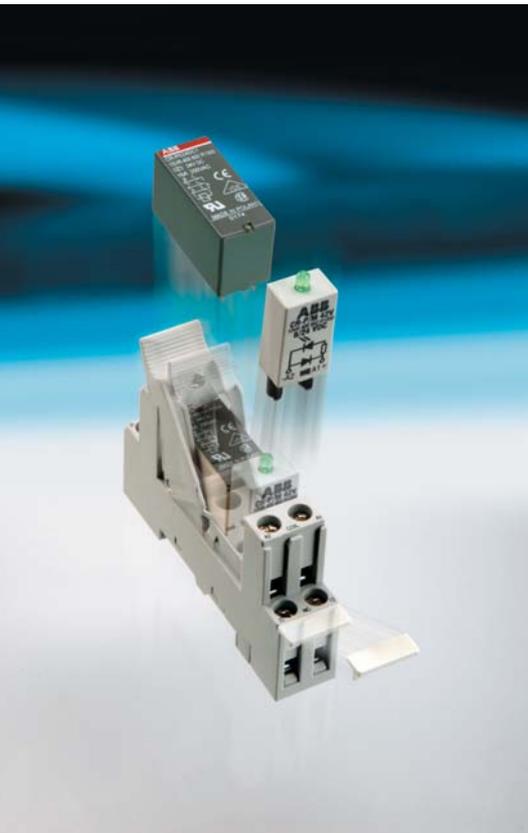
## Pluggable interface relays CR-P, CR-M, CR-U range



# Selection guides and order references for pluggable interface relays CR

## Pluggable pcb relays CR-P

- 1 or 2 c/o contacts
- 1 c/o: 250V/16A switching capacity
- 2 c/o: 250V/8A switching capacity
- Suited for logical and standard sockets
- Pluggable function modules CR-P/M
- Approvals:



Type	Supply voltage	Order code
<b>1 c/o: 250 V, 16 A</b>		
CR-P012DC1	12 V DC	1SVR 405 600 R4000
<b>CR-P024DC1</b>	<b>24 V DC</b>	<b>1SVR 405 600 R1000</b>
CR-P048DC1	48 V DC	1SVR 405 600 R6000
CR-P110DC1	110 V DC	1SVR 405 600 R8000
<b>CR-P024AC1</b>	<b>24 V AC</b>	<b>1SVR 405 600 R0000</b>
CR-P048AC1	48 V AC	1SVR 405 600 R5000
<b>CR-P110AC1</b>	<b>110 V AC</b>	<b>1SVR 405 600 R7000</b>
CR-P120AC1	120 V AC	1SVR 405 600 R2000
<b>CR-P230AC1</b>	<b>230 V AC</b>	<b>1SVR 405 600 R3000</b>
<b>2 c/o: 250 V, 8 A</b>		
CR-P012DC2	12 V DC	1SVR 405 601 R4000
<b>CR-P024DC2</b>	<b>24 V DC</b>	<b>1SVR 405 601 R1000</b>
CR-P048DC2	48 V DC	1SVR 405 601 R6000
CR-P110DC2	110 V DC	1SVR 405 601 R8000
<b>CR-P024AC2</b>	<b>24 V AC</b>	<b>1SVR 405 601 R0000</b>
CR-P048AC2	48 V AC	1SVR 405 601 R5000
<b>CR-P110AC2</b>	<b>110 V AC</b>	<b>1SVR 405 601 R7000</b>
CR-P120AC2	120 V AC	1SVR 405 601 R2000
<b>CR-P230AC2</b>	<b>230 V AC</b>	<b>1SVR 405 601 R3000</b>

Packing unit = 10 pieces.

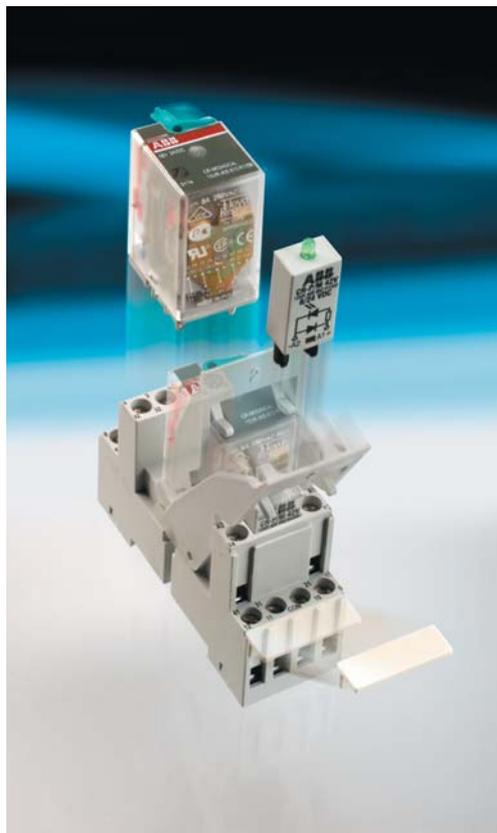
## Sockets for pcb relays CR-P



Type	Version	Order code
<b>Sockets</b>		
<b>CR-PLS</b>	<b>Logical socket</b>	<b>1SVR 405 650 R0000</b>
<b>CR-PLSx</b>	<b>Logical socket</b>	<b>1SVR 405 650 R1000</b>
<b>CR-PSS</b>	<b>Standard socket</b>	<b>1SVR 405 650 R0100</b>
<b>Socket accessories</b>		
<b>CR-PH</b>	<b>Holder</b>	<b>1SVR 405 659 R0000</b>

Packing unit = 10 pieces.

# R-P, CR-M, CR-U range



## Pluggable miniature relays CR-M without LED



Type	Supply voltage	Order code
<b>Interface relays without LED</b>		
<b>2 c/o: 250 V, 12 A</b>		
CR-M012DC2	12 V DC	1SVR 405 611 R4000
<b>CR-M024DC2</b>	<b>24 V DC</b>	<b>1SVR 405 611 R1000</b>
CR-M048DC2	48 V DC	1SVR 405 611 R6000
CR-M110DC2	110 V DC	1SVR 405 611 R8000
CR-M220DC2	220 V DC	1SVR 405 611 R9000
<b>CR-M024AC2</b>	<b>24 V AC</b>	<b>1SVR 405 611 R0000</b>
CR-M048AC2	48 V AC	1SVR 405 611 R5000
<b>CR-M110AC2</b>	<b>110 V AC</b>	<b>1SVR 405 611 R7000</b>
CR-M120AC2	120 V AC	1SVR 405 611 R2000
<b>CR-M230AC2</b>	<b>230 V AC</b>	<b>1SVR 405 611 R3000</b>
<b>3 c/o: 250 V, 10 A</b>		
CR-M012DC3	12 V DC	1SVR 405 612 R4000
<b>CR-M024DC3</b>	<b>24 V DC</b>	<b>1SVR 405 612 R1000</b>
CR-M048DC3	48 V DC	1SVR 405 612 R6000
CR-M110DC3	110 V DC	1SVR 405 612 R8000
CR-M220DC3	220 V DC	1SVR 405 612 R9000
<b>CR-M024AC3</b>	<b>24 V AC</b>	<b>1SVR 405 612 R0000</b>
CR-M048AC3	48 V AC	1SVR 405 612 R5000
<b>CR-M110AC3</b>	<b>110 V AC</b>	<b>1SVR 405 612 R7000</b>
CR-M120AC3	120 V AC	1SVR 405 612 R2000
<b>CR-M230AC3</b>	<b>230 V AC</b>	<b>1SVR 405 612 R3000</b>
<b>4 c/o: 250 V, 6 A</b>		
CR-M012DC4	12 V DC	1SVR 405 613 R4000
<b>CR-M024DC4</b>	<b>24 V DC</b>	<b>1SVR 405 613 R1000</b>
CR-M048DC4	48 V DC	1SVR 405 613 R6000
CR-M110DC4	110 V DC	1SVR 405 613 R8000
CR-M220DC4	220 V DC	1SVR 405 613 R9000
<b>CR-M024AC4</b>	<b>24 V AC</b>	<b>1SVR 405 613 R0000</b>
CR-M048AC4	48 V AC	1SVR 405 613 R5000
<b>CR-M110AC4</b>	<b>110 V AC</b>	<b>1SVR 405 613 R7000</b>
CR-M120AC4	120 V AC	1SVR 405 613 R2000
<b>CR-M230AC4</b>	<b>230 V AC</b>	<b>1SVR 405 613 R3000</b>

Packing unit = 10 pieces.

## Pluggable miniature relays CR-M

- 2, 3 or 4 c/o contacts
- 2 c/o: 250V/12A switching capacity
- 3 c/o: 250V/10A switching capacity
- 4 c/o: 250V/6A switching capacity
- Mechanical status indication
- Integrated test button for manual operation and locking of output contacts (blue: DC, orange: AC)
- With or without LED
- 4 c/o version optionally equipped with gold contacts and LED
- Suited for logical or standard sockets
- Pluggable function modules CR-P/M
- Approvals:



## Sockets for miniature relays CR-M

Type	Version	Order code
<b>Sockets</b>		
CR-M2LS	Logical socket, 2 c/o	1SVR 405 651 R1100
CR-M3LS	Logical socket, 3 c/o	1SVR 405 651 R2100
CR-M4LS	Logical socket, 2/4 c/o	1SVR 405 651 R3100
CR-M2SS	Standard socket, 2 c/o	1SVR 405 651 R1000
CR-M3SS	Standard socket, 3 c/o	1SVR 405 651 R2000
CR-M4SS	Standard socket, 2/4 c/o	1SVR 405 651 R3000

Packing unit = 10 pieces.

Bold printed products = stocked products.



### Pluggable miniature relays CR-M with LED

Type	Supply voltage	Order code
<b>Interface relays with LED</b>		
<b>2 c/o: 250 V, 12 A</b>		
CR-M012DC2L	12 V DC	1SVR 405 611 R4100
<b>CR-M024DC2L</b>	<b>24 V DC</b>	<b>1SVR 405 611 R1100</b>
CR-M048DC2L	48 V DC	1SVR 405 611 R6100
CR-M110DC2L	110 V DC	1SVR 405 611 R8100
CR-M220DC2L	220 V DC	1SVR 405 611 R9100
<b>CR-M024AC2L</b>	<b>24 V AC</b>	<b>1SVR 405 611 R0100</b>
CR-M048AC2L	48 V AC	1SVR 405 611 R5100
<b>CR-M110AC2L</b>	<b>110 V AC</b>	<b>1SVR 405 611 R7100</b>
CR-M120AC2L	120 V AC	1SVR 405 611 R2100
<b>CR-M230AC2L</b>	<b>230 V AC</b>	<b>1SVR 405 611 R3100</b>
<b>3 c/o: 250 V, 10 A</b>		
CR-M012DC3L	12 V DC	1SVR 405 612 R4100
<b>CR-M024DC3L</b>	<b>24 V DC</b>	<b>1SVR 405 612 R1100</b>
CR-M048DC3L	48 V DC	1SVR 405 612 R6100
CR-M110DC3L	110 V DC	1SVR 405 612 R8100
CR-M220DC3L	220 V DC	1SVR 405 612 R9100
<b>CR-M024AC3L</b>	<b>24 V AC</b>	<b>1SVR 405 612 R0100</b>
CR-M048AC3L	48 V AC	1SVR 405 612 R5100
<b>CR-M110AC3L</b>	<b>110 V AC</b>	<b>1SVR 405 612 R7100</b>
CR-M120AC3L	120 V AC	1SVR 405 612 R2100
<b>CR-M230AC3L</b>	<b>230 V AC</b>	<b>1SVR 405 612 R3100</b>
<b>4 c/o: 250 V, 6 A</b>		
CR-M012DC4L	12 V DC	1SVR 405 613 R4100
<b>CR-M024DC4L</b>	<b>24 V DC</b>	<b>1SVR 405 613 R1100</b>
CR-M048DC4L	48 V DC	1SVR 405 613 R6100
CR-M110DC4L	110 V DC	1SVR 405 613 R8100
CR-M220DC4L	220 V DC	1SVR 405 613 R9100
<b>CR-M024AC4L</b>	<b>24 V AC</b>	<b>1SVR 405 613 R0100</b>
CR-M048AC4L	48 V AC	1SVR 405 613 R5100
<b>CR-M110AC4L</b>	<b>110 V AC</b>	<b>1SVR 405 613 R7100</b>
CR-M120AC4L	120 V AC	1SVR 405 613 R2100
<b>CR-M230AC4L</b>	<b>230 V AC</b>	<b>1SVR 405 613 R3100</b>
<b>Interface relays with LED and gold contacts</b>		
<b>4 Wechsler: 250 V, 12 A</b>		
CR-M012DC4LG	12 V DC	1SVR 405 618 R4100
<b>CR-M024DC4LG</b>	<b>24 V DC</b>	<b>1SVR 405 618 R1100</b>
CR-M048DC4LG	48 V DC	1SVR 405 618 R6100
CR-M110DC4LG	110 V DC	1SVR 405 618 R8100
CR-M220DC4LG	220 V DC	1SVR 405 618 R9100
<b>CR-M024AC4LG</b>	<b>24 V AC</b>	<b>1SVR 405 618 R0100</b>
CR-M048AC4LG	48 V AC	1SVR 405 618 R5100
<b>CR-M110AC4LG</b>	<b>110 V AC</b>	<b>1SVR 405 618 R7100</b>
CR-M120AC4LG	120 V AC	1SVR 405 618 R2100
<b>CR-M230AC4LG</b>	<b>230 V AC</b>	<b>1SVR 405 618 R3100</b>

Packing unit = 10 pieces.

Bold printed products = stocked products.

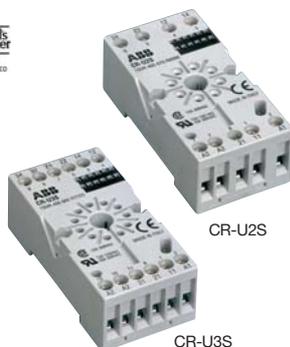
## Pluggable universal relays CR-U



Type	Supply voltage	Order code
<b>Interface relays without LED</b>		
<b>2 c/o: 250 V, 10 A</b>		
CR-U012DC2	12 V DC	1SVR 405 621 R4000
<b>CR-U024DC2</b>	<b>24 V DC</b>	<b>1SVR 405 621 R1000</b>
CR-U048DC2	48 V DC	1SVR 405 621 R6000
CR-U110DC2	110 V DC	1SVR 405 621 R8000
CR-U220DC2	220 V DC	1SVR 405 621 R9000
<b>CR-U024AC2</b>	<b>24 V AC</b>	<b>1SVR 405 621 R0000</b>
CR-U048AC2	48 V AC	1SVR 405 621 R5000
<b>CR-U110AC2</b>	<b>110 V AC</b>	<b>1SVR 405 621 R7000</b>
CR-U120AC2	120 V AC	1SVR 405 621 R2000
<b>CR-U230AC2</b>	<b>230 V AC</b>	<b>1SVR 405 621 R3000</b>
<b>3 c/o: 250 V, 10 A</b>		
CR-U012DC3	12 V DC	1SVR 405 622 R4000
<b>CR-U024DC3</b>	<b>24 V DC</b>	<b>1SVR 405 622 R1000</b>
CR-U048DC3	48 V DC	1SVR 405 622 R6000
CR-U110DC3	110 V DC	1SVR 405 622 R8000
CR-U220DC3	220 V DC	1SVR 405 622 R9000
<b>CR-U024AC3</b>	<b>24 V AC</b>	<b>1SVR 405 622 R0000</b>
CR-U048AC3	48 V AC	1SVR 405 622 R5000
<b>CR-U110AC3</b>	<b>110 V AC</b>	<b>1SVR 405 622 R7000</b>
CR-U120AC3	120 V AC	1SVR 405 622 R2000
<b>CR-U230AC3</b>	<b>230 V AC</b>	<b>1SVR 405 622 R3000</b>
<b>Interface relays with LED</b>		
<b>2 c/o: 250 V, 10 A</b>		
CR-U012DC2L	12 V DC	1SVR 405 621 R4100
<b>CR-U024DC2L</b>	<b>24 V DC</b>	<b>1SVR 405 621 R1100</b>
CR-U048DC2L	48 V DC	1SVR 405 621 R6100
CR-U110DC2L	110 V DC	1SVR 405 621 R8100
CR-U220DC2L	220 V DC	1SVR 405 621 R9100
<b>CR-U024AC2L</b>	<b>24 V AC</b>	<b>1SVR 405 621 R0100</b>
CR-U048AC2L	48 V AC	1SVR 405 621 R5100
<b>CR-U110AC2L</b>	<b>110 V AC</b>	<b>1SVR 405 621 R7100</b>
CR-U120AC2L	120 V AC	1SVR 405 621 R2100
<b>CR-U230AC2L</b>	<b>230 V AC</b>	<b>1SVR 405 621 R3100</b>
<b>3 c/o: 250 V, 10 A</b>		
CR-U012DC3L	12 V DC	1SVR 405 622 R4100
<b>CR-U024DC3L</b>	<b>24 V DC</b>	<b>1SVR 405 622 R1100</b>
CR-U048DC3L	48 V DC	1SVR 405 622 R6100
CR-U110DC3L	110 V DC	1SVR 405 622 R8100
CR-U220DC3L	220 V DC	2SVR 405 622 R9100
<b>CR-U024AC3L</b>	<b>24 V AC</b>	<b>1SVR 405 622 R0100</b>
CR-U048AC3L	48 V AC	1SVR 405 622 R5100
<b>CR-U110AC3L</b>	<b>110 V AC</b>	<b>1SVR 405 622 R7100</b>
CR-U120AC3L	120 V AC	1SVR 405 622 R2100
<b>CR-U230AC3L</b>	<b>230 V AC</b>	<b>1SVR 405 622 R3100</b>

### Pluggable universal relays CR-U

- 2 or 3 c/o contacts, 250V/10A switching capacity
- Mechanical status indication
- Integrated test button for manual operation and locking of output contacts (blue: DC, orange: AC)
- With or without LED
- Pluggable function modules CR-U
- Approvals:



Bold printed products = stocked products.

### Sockets for universal relays CR-U

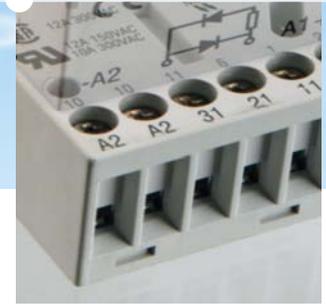
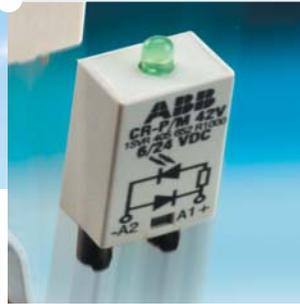
Type	Version	Order code
<b>Sockets</b>		
<b>CR-U2S</b>	<b>Socket for 2 c/o contacts</b>	<b>1SVR 405 670 R0000</b>
<b>CR-U3S</b>	<b>Socket for 3 c/o contacts</b>	<b>1SVR 405 660 R0000</b>
<b>CR-U3E<sup>1)</sup></b>	<b>Socket for 3 c/o contacts</b>	<b>1SVR 405 660 R0100</b>
<b>Socket accessories</b>		
<b>CR-UH</b>	<b>Holder</b>	<b>1SVR 405 669 R0000</b>

Packing unit = 10 pieces.

Packing unit = 10 pieces.

<sup>1)</sup> not compatible for function modules

# Pluggable function modules for interface relays CR-P, CR-M, CR-U rang



## Pluggable function modules for relays CR-P and CR-M



Type	Version	Order code
<b>Socket</b>		
CR-P/M 22	Reverse polarity protection, 6-230 V DC, A1+, A2-	1SVR 405 651 R0000
CR-P/M 42	Diode and LED rot, 6-24 V DC, A1+, A2-	1SVR 405 652 R0000
CR-P/M 42V	Diode and LED grün, 6-24 V DC, A1+, A2-	1SVR 405 652 R1000
CR-P/M 52B	RC element, 6-24 V AC	1SVR 405 653 R0000
CR-P/M 52C	RC element, 110-240 V AC	1SVR 405 653 R1000
CR-P/M 62	LED red, 6-24 V AC/DC	1SVR 405 654 R0000
CR-P/M 62V	LED green, 6-240 V AC/DC	1SVR 405 654 R1000
CR-P/M 92	LED red, 110-230 V AC/DC	1SVR 405 654 R0100
CR-P/M 92V	LED green, 110-230 V AC/DC	1SVR 405 654 R1100
CR-P/M 62C	Varistor and LED red, 6-24 V AC/DC	1SVR 405 655 R0000
CR-P/M 62CV	Varistor and LED green, 6-24 V AC/DC	1SVR 405 655 R1000
CR-P/M 92C	Varistor and LED red, 110-230 V AC/DC	1SVR 405 655 R0100
CR-P/M 92CV	Varistor and LED green, 110-230 V AC/DC	1SVR 405 655 R1100
CR-P/M 72A	Varistor without LED, 24 V AC	1SVR 405 656 R0000
CR-P/M 72A	Varistor without LED, 115 V AC	1SVR 405 656 R1000
CR-P/M 82	Varistor without LED, 230 V AC	1SVR 405 656 R2000

Packing unit = 10 pieces.

## Pluggable function modules for relays CR-U



Type	Version	Order code
<b>Socket</b>		
CR-U 21	Reverse polarity protection, 6-230 V DC, A1+, A2-	1SVR 405 661 R0000
CR-U 41	Diode and LED red, 6-24 V DC, A1+, A2-	1SVR 405 662 R0000
CR-U 41V	Diode and LED green, 6-24 V DC, A1+, A2-	1SVR 405 662 R1000
CR-U 51B	RC element, 6-24 V AC	1SVR 405 663 R0000
CR-U 51C	RC element, 110-240 V AC	1SVR 405 663 R1000
CR-U 61	LED red, 6-24 V AC/DC	1SVR 405 664 R0000
CR-U 61V	LED green, 6-240 V AC/DC	1SVR 405 664 R1000
CR-U 91	LED red, 110-230 V AC/DC	1SVR 405 664 R0100
CR-U 91V	LED green, 110-230 V AC/DC	1SVR 405 664 R1100
CR-U 61C	Varistor and LED red, 6-24 V AC/DC	1SVR 405 665 R0000
CR-U 61CV	Varistor and LED green, 6-24 V AC/DC	1SVR 405 665 R1000
CR-U 91C	Varistor and LED red, 110-230 V AC/DC	1SVR 405 665 R0100
CR-U 91CV	Varistor and LED green, 110-230 V AC/DC	1SVR 405 665 R1100
CR-U 71	Varistor without LED, 24 V AC	1SVR 405 666 R0000
CR-U 71A	Varistor without LED, 115 V AC	1SVR 405 666 R1000
CR-U 81	Varistor without LED, 230 V AC	1SVR 405 666 R2000

Packing unit = 10 pieces.



## The new program: Pluggable interface relays by ABB

Interface relays are widely used in various industrial applications: As an interface they link the electronic controlling, e.g. PLC (programmable logic controller), PC or field bus systems, to the sensor / actuator level. Here, they take on various functions: Switching of AC or DC loads with different resistive, inductive and capacitive parts, switching voltages from a few mV up to 250 V, switching currents from a few mA up to 16 A, amplification of weak control signals, electrical isolation of control and load circuits, and signal multiplying. In contrast to electronic switching devices, interface relays don't use additional internal protective circuits and thus are overload-proof against short-time variations like current or voltage peaks.

ABB pluggable interface relays are offered in three product ranges: Pcb relays CR-P, miniature relays CR-M and universal relays CR-U. The advantages will convince you:

- 10 different coil voltages:  
12 V DC, 24 V DC, 24 V AC, 48 V AC, 48 V DC,  
110 V DC, 220 V DC, 110 V AC, 120 V AC, 230 V AC
- All relays are cadmium- and lead-free.
- Our relays feature all major international approvals.





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